

## Materials & Equipment



# Explanation of Symbols

## Textile Care Symbols

	Hand wash
	30 °C delicates - reduce fill quantity one third
	30 °C normal wash
	40 °C normal wash
	60 °C normal wash
	95 °C normal wash
	Ironing with one dot - approx. 110 °C
	Ironing with two dots - approx. 150 °C
	Ironing with three dots - approx. 220 °C
	Do not iron
	Can be bleached
	Do not bleach
	No dry cleaning
	Low-temperature dry
	Normal dry
	Do not tumble dry
	Dryclean, petroleum solvent only
	Dryclean, any solvent except trichloroethylene

## Danger Symbols

	Flammable substances
	Oxidizing substances
	Toxic substances
	Irritating substances
	Corrosive substances
	Environmentally dangerous substances

## IMPRINT

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# Content

▪ History.....	4 – 5
▪ Quality is our Claim .....	6
▪ Contact .....	7
▪ Streifeneder Training Centre .....	8 – 10
▪ Plastics .....	11 – 34
▪ Cushioning Material .....	35 – 58
▪ Padding Material .....	59 – 72
▪ Metals .....	73 – 80
▪ Laminating Resins.....	81 – 114
▪ Foams .....	115– 122
▪ Pre-preg .....	123 – 136
▪ Silicone.....	137 – 176
▪ Adhesives .....	175 – 192
▪ Plaster.....	195 – 214
▪ Small Parts.....	215 – 240
▪ Walking Aids and Rehabilitation Technology .....	241 – 256
▪ Textiles .....	257 – 332
▪ Insoles .....	333 – 341
▪ Little ABC's of Orthopaedics .....	342 – 349
▪ Index .....	350 – 355
▪ Directory.....	356 – 359

# History

- 1928** The Streifeneder firm is set up by Lilli and Friedrich Georg Streifeneder in Mannheim.
- 1929** The first patent is applied for.
- 1931** The property in Schöngesinger Straße in Fürstenfeldbruck is purchased.
- 1932** The first orthopaedic workshop is fitted out in Fürstenfeldbruck near Munich.
- 1945** Further orthopaedic workshops are set up to cater for war invalids.
- 1949** The orthopaedic workshop starts up at the Bad Tölz Hospital.
- 1953** The Munich site is opened. The wholesale business is expanded.
- 1968** The plastics, Streifylen and Streifylast, are launched along with the requisite heat sources.
- 1992** A production site is set up in Hungary to manufacture plastic products in small series.
- 1993** The Production and Distribution division expands further. Move to the new company premises in Emmering, just outside Munich.
- 1995** Export activities are stepped up.
- 1997** Takeover of Maschinen-Schmid, the world market leader in socket router machinery.

- 1998 The product range is extended by the Prosthetics product division.
- 1999 Traditional in-house production is extended and the product spectrum expanded by modular components.  
"Everything from a single source" – with our very own department for workshop planning we can now help to realise our clients' wishes even better.
- 2001 The new site in Emmering is extended by further storage space to 6,000 sqm.
- 2004 Establishment of distribution structure in China.
- 2007 Streifeneder ortho.production GmbH is set up as an independent subsidiary.
- 2009 Streifeneder ortho.production GmbH exports to more than 100 countries.  
Streifeneder ortho.production GmbH wins the "red dot design award" for the knee joint KINEGEN stream.
- 2010 A new building is purchased for Streifeneder ortho.production GmbH in Emmering.
- 2011 Establishment of distribution structures in Latin America and India.  
Relocation of Streifeneder ortho.production to the new building with modern training and education-, logistics- and administration centre.  
Foundation of Streifeneder Training Centre in Emmering.
- 2012 Grand opening of Streifeneder Training Centre, with focus on national and international markets.  
Streifeneder ortho.production GmbH wins the "red dot design award" for the therapeutic shoe Pluto.



# Quality is our Claim

We are convinced that only constant technical innovation and development is the key to a steady improvement of products and optimal patient care. We apply high standards to be able to offer each of our clients exactly those high-quality products he requires. Each of our products is subject to a continuous quality planning, quality control, quality monitoring and quality improvement. In order to be able to satisfy even most individual customer requirements and also in order to close product-related gaps in the market, it is essential to have our own production series with large lot sizes, but to also offer products with very individual unit numbers.

Despite the rapid development of the export business within the last years and the opening up of new markets such as China, we still value Germany as our location to do business. We are proud of the quality standard "Made in Germany" and even in times of a continuously increasing cost pressure and growing competition due to globalization, we still produce predominantly in Germany.



## Quality management

Our experience of eighty years as well as the certified quality management system we introduced in 1998 according to EN ISO 13485 ensure quality of the highest level.

This quality management system is applied to all business divisions. Especially our product development division makes sure that the high level of quality is not only maintained but steadily increased. Thus, we ensure that we always meet the raising demands of our clients in terms of product development, manufacturing and safety.



Increasing globalisation and changing international security and safety conditions have motivated the World Customs Organisation (WCO) to draft a „Framework of Standards to Secure and Facilitate Global Trade“ (SAFE) to establish a global framework for modern and effective risk management of customs compliances. The aim is to guarantee the security and safety of a continual international supply chain from the product manufacturer to the end consumer. The concept of European Authorised Economic Operator is an EU Customs security programme that started in 2007 and recognises companies as reliable trade partners as they met the following common criteria: customs compliance, appropriate record-keeping, financial solvency and, where relevant, appropriate security and safety standards.

Streifeneder ortho.production GmbH, as a globally operating company, has met the challenge and is proud to announce that it has been granted Authorised Economic Operator (AEO-F) certification by German customs in January, 2013, which officially regards the company as a reliable trade partner. The certificate number is DE AEO-F 115235.

# Contacting us

Communication is imperative in an operating partnership. The personal contact is the foundation to create a relationship with you, which is based on a partnership.

We shall make every effort to react rapidly and efficiently to your wishes, to answer questions and to keep our promises with regard to our products. Please contact us as follows.



Via our general office switchboard at +49 (0) 8141 6106-0 your call will be directed to the staff member in charge.

Of course, you can also send your request by email to [office@streifeneder.de](mailto:office@streifeneder.de).

# Streifeneder Training Centre

In order to stay competitive and in order to meet the growing requirements of the patients, it is no longer enough to just use high quality orthopaedic products. Profound practical skills on the basis of current scientific research and findings creates optimal conditions to always react competently and confidently in daily practice.

In order to convey valuable expertise as well as detailed knowledge to specialists in orthopaedic and orthopaedic shoe technology, we have originated the Streifeneder Training Centre in Emmering.

A spacious auditorium (AudiMax) with 160 seats and a fully equipped workshop with 15 work stations, a machine room as well as a patient fitting room and a plaster room on approx. 1.000 m<sup>2</sup> offer more than optimal conditions for a qualified advanced and continuous education on the highest level. Modern tools such as multimedia equipment, a fully equipped gait analysis laboratory, course materials and teaching aids that meet the demands of our clients are also part of our standards.

When it comes to personnel, our training center is optimally prepared, too. We have a team of highly qualified and dedicated staff members, who all come from an orthopaedic technology background and therefore as practitioners know direct patient contact very well. We guarantee for a continuously high teaching quality, which is safeguarded by the perpetual evaluation of our seminars and our speakers. Furthermore, all of our seminars are accredited according to their target group at either the Institute for quality assurance and certification (IQZ), the AGOS or at BLAeK (CME).





Our meticulously elaborated seminar program comprehends more than 50 events per year centered around topics such as silicone processing, pre-preg processing, synthetic materials, gait analysis or diabetic foot syndrome. With a flexible program planning on our part, we are also able to react to individual customer's wishes and to offer seminars about special subjects upon request.

In order to guarantee an array of seminars that is as broad as possible, e. g. about topics such as bio-mechanics or sensory integration, we regularly invite high-carat external guest lecturers to our Training Centre.

You can download our current Streifeneder seminar calendar with further information about all of our seminars from our website at [www.streifeneder.de](http://www.streifeneder.de). Of course, we will also gladly send it to you by post or email. Please feel free to contact us at: [schulungszentrum@streifeneder.de](mailto:schulungszentrum@streifeneder.de) or by telephone +49 (0) 8141 6106-0. We are looking forward to hearing from you!





Plastics



# Plastics

Plastics belong to the world of material, which is subdivided into raw materials, materials, and semifinished material or components for the manufacturing of various products and goods.

Besides the composite materials, which represent a combination of several materials, there are five main groups:

- Metals (iron)
- Non-metals (graphite)
- Organic materials (wood)
- Inorganic non-metallic materials (glass)
- Semi-conductors (silicone)

Finished materials develop a number of important properties:

- Physical properties (hardness, density)
- Technological properties (thermal conductivity, castability, workability, machinability)
- Mechanical properties (tensile strength, compression strength, solidity, elasticity, plasticity)
- Chemical properties (resistance to corrosion, acid- and alkali-proofness)

Polymers are the basic components of any synthetic material. A synthetic material (polymer) is in essence nothing else but a type of chemical molecular chain (catenation or chain formation). One chain link is called a monomeric unit. If a minimum of three monomers are bundled, then this is called a polymer. During manufacturing (polymerization), individual (identical) monomers are uniting to form polymers. And this a million times.

Because of their technical properties such as ductility, different grades of hardness and elasticity, as well as the resistance against heat and chemical influences, synthetic materials are very attractive to orthopaedic technology. Synthetic materials on carbon basis (PE, PP, PVC, PET etc.) are predominantly processed here.

The history of fabricating synthetic material goes back to the 17th century. Rubber was one of the first products. Today, PE, PP and PS (polystyrenes) are the most frequently used synthetic materials.

Modern synthetic materials are subdivided into three main groups:

#### Thermoplastic materials

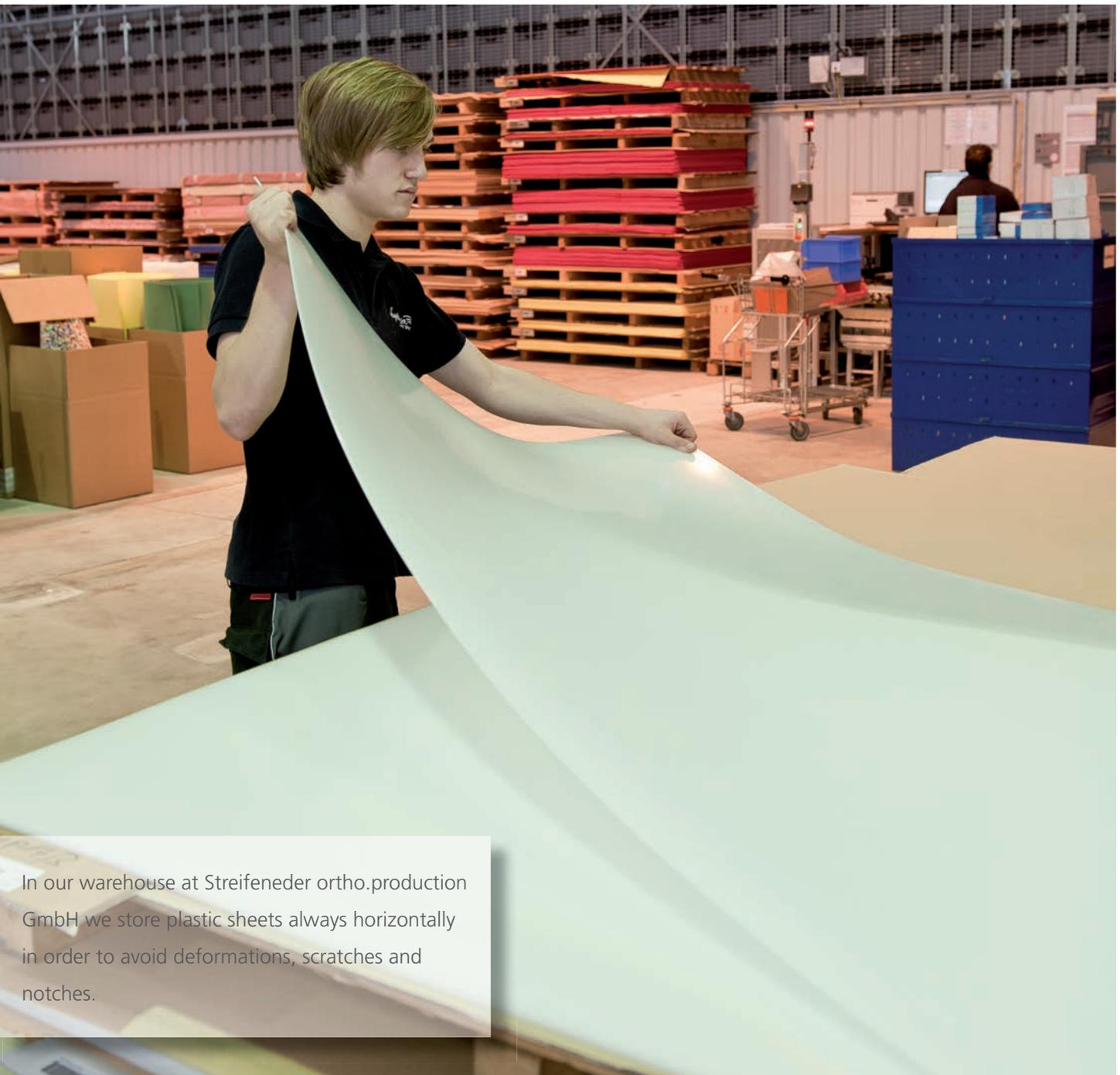
This material is malleable under heat supply and can therefore be given any desired form by means of a forming process. After cooling down, the material maintains exactly this form. A great advantage consists in the fact that this process is reversible. Thermoplastics, especially PE and PP materials, constitute the majority of synthetic materials used today.

#### Thermosetting plastics

Cured TS materials are normally hard and brittle and can only be machined in subsequent manufacturing processes. One disadvantage of these synthetic materials is that heating thermosetting plastics does not result in malleability. You also have to keep in mind that these materials can only dissipate the heat delivered during the machining process to some extent or not at all. Therefore, the quality of machining can be influenced considerably during sawing, milling or grinding.

#### Elastomers

This type of synthetic material is only elastic or respectively pliable. That means that a product made from elastomers will deform if exposed to external forces. When released from these forces, the product (e. g. a rubber ring) will return to its original shape. Elastomers can generally be processed by chipless machining. This type of forming, however, is not permanent. Since these materials will not become malleable by supplying heat, elastomers are increasingly used for sanitary products.



In our warehouse at Streifeneder ortho.production GmbH we store plastic sheets always horizontally in order to avoid deformations, scratches and notches.

# Plastics

In the following you will find some important abbreviations for plastics which are also used in orthopaedics:

- EVA Ethylene vinyl acetate. A co-polymer with high thermal stability. Often used in orthopaedics as a cushioning material. Other industries use EVA to manufacture electric cables or shower curtains amongst other things.
- PE Polyethylene. One of the best known thermoplastic synthetic materials. Very resistant to external impacts. The two most important types are HDPE – (high-density) PE with high density and therefore a solid PE, which is produced using low pressure manufacturing (e. g. beverage cases) and LDPE – (low density) PE with low density, which is a rather soft material as it is produced using high pressure processes (e. g. refuse sacks).
- PET Polyethylene terephthalate. Plastic, which originally comes from the polyester family. In everyday life known due to PET bottles. It is also used in medicine as a blood vessel prosthesis.
- PP Polypropylene. Coming from the polyolefine family. Mostly hard and firm, but mechanically characterized by a very high stressability. Often industrially used for food packaging.
- PMMA Polymethylmethacrylate. Thermoplastic material similar to glass and better known by the name of plexiglass or Altuglas. Often used in dentistry as a prosthetic material.
- PS Polystyrene. A transparent plastic material which is hard but impact sensitive. It has good electrical characteristics and is often industrially used for housings of electric appliances. It is also suitable for mass productions such as CD covers or yoghurt goblets. Better known in its foamed state, it attained a great customer awareness by the name styrofoam.
- PVC Polyvinylchloride. Normally a hard and brittle material. One distinguishes between plasticized polyvinyl chloride (PPVC) which is used amongst others for artificial leather – and unplasticized polyvinyl chloride (UPVC) which is used e. g. to make window profiles.



Plastics (polymeres) by Streifeneder to be used in orthopedic technology

Expanded plastics		
PU	PE	EVA
e. g. PPT e. g. Orthoprene (Neoprene)	e. g. Multiform e. g. Colorfoam	e. g. Evazote e. g. Nora products such as Lunasoft and Lunalastik

Cast plastics
Acrylic glass e. g. Streifycryl e. g. Altuglas

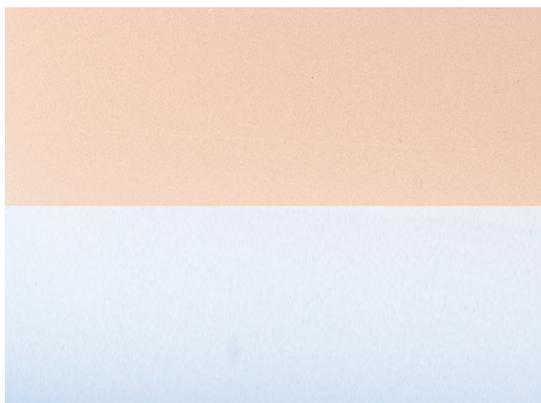
Injection-molded and rolled plastics			
PE	PP	Polycondensate	EVA (in the form of LDPE)
e. g. Streifylen e. g. Streifycolor e. g. Steifylast	e. g. Streifydur e. g. Colordur	e. g. PET e. g. Streifeneder Kunstglas (artificial glass)	e. g. Streifyflex

Pressed plastics	
PE-HMW	PE-UHMW (ultra-high molecular weight)
e. g. RCH 500	e. g. RCH 1000

Low temperature PE
Polymere compound e. g. Streifytherm



## Streifylen®



polyethylene, moldable at 165-175 °C, suitable for deep drawing and welding, limited driveability, very little shrinkage

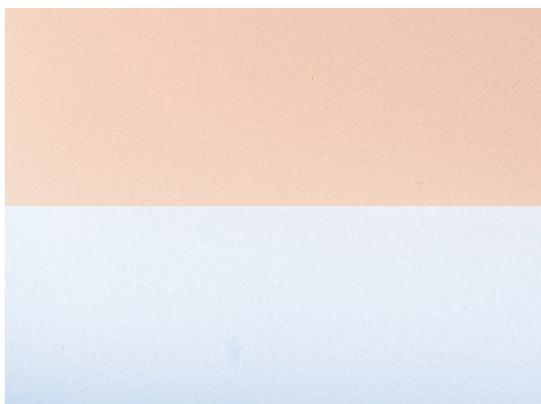
PU = 1 piece (2 sqm)

L x W x Thickness	Colour	Item-No.
2000 x 1000 x 1 mm	white	111P17/1
2000 x 1000 x 2 mm	white	111P17/2
2000 x 1000 x 3 mm	white	111P17/3
2000 x 1000 x 4 mm	white	111P17/4
2000 x 1000 x 5 mm	white	111P17/5
2000 x 1000 x 6 mm	white	111P17/6
2000 x 1000 x 8 mm	white	111P17/8
2000 x 1000 x 1 mm	peach	111P19/1
2000 x 1000 x 2 mm	peach	111P19/2
2000 x 1000 x 3 mm	peach	111P19/3
2000 x 1000 x 4 mm	peach	111P19/4
2000 x 1000 x 5 mm	peach	111P19/5



Professional PE-material for orthopaedic technology.

## Streifylen® PE-HWST



polyethylene, moldable at 165-175 °C, deep drawable and weldable

PU = 1 piece (2sqm)

L x W x Thickness	Colour	Item-No.
2000 x 1000 x 1 mm	white	111P117/1
2000 x 1000 x 2 mm	white	111P117/2
2000 x 1000 x 3 mm	white	111P117/3
2000 x 1000 x 4 mm	white	111P117/4
2000 x 1000 x 5 mm	white	111P117/5
2000 x 1000 x 6 mm	white	111P117/6
2000 x 1000 x 8 mm	white	111P117/8
2000 x 1000 x 10 mm	white	111P117/10
2000 x 1000 x 20 mm	white	111P117/20

## Streifycolor®



polyethylene, moldable at 165-175 °C, deep drawable and weldable

PU = 1 piece (2 sqm)

L x W x Thickness	Colour	Item-No.
2000 x 1000 x 2 mm	black	111P20/2
2000 x 1000 x 3 mm	black	111P20/3
2000 x 1000 x 4 mm	black	111P20/4
2000 x 1000 x 5 mm	black	111P20/5
2000 x 1000 x 6 mm	black	111P20/6
2000 x 1000 x 10 mm	black	111P20/10
2000 x 1000 x 15 mm	black	111P20/15
2000 x 1000 x 20 mm	black	111P20/20



Due to its black color more rigid than white Streifylen.

## Streifylast®



soft polyethylene, moldable at 130-160 °C, deep drawable, weldable at higher temperatures, colour: milky-white

PU = 1 piece (2 sqm)

L x W x Thickness	Item-No.
2000 x 1000 x 1 mm	111P29/1
2000 x 1000 x 2 mm	111P29/2
2000 x 1000 x 3 mm	111P29/3
2000 x 1000 x 4 mm	111P29/4
2000 x 1000 x 5 mm	111P29/5

## Streifylast®

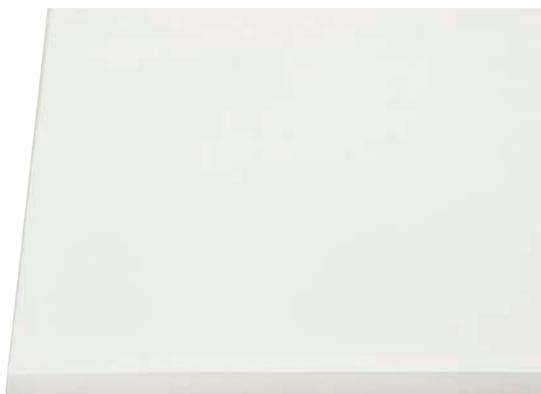


soft polyethylene, moldable at 130-160 °C, deep drawable, weldable at higher temperatures, colour: peach

PU = 1 piece (2 sqm)

L x W x Thickness	Item-No.
2000 x 1000 x 3 mm	111P30/30
2000 x 1000 x 4,5 mm	111P30/45

## Streifydur®



polypropylene, moldable at 175-190 °C, weldable, deep drawable, colour: clear-white

PU = 1 piece (2 sqm)

L x W x Thickness	Item-No.
2000 x 1000 x 1 mm	111P25/1
2000 x 1000 x 2 mm	111P25/2
2000 x 1000 x 3 mm	111P25/3
2000 x 1000 x 4 mm	112P25/4
2000 x 1000 x 5 mm	111P25/5

## Streifydur® Plus

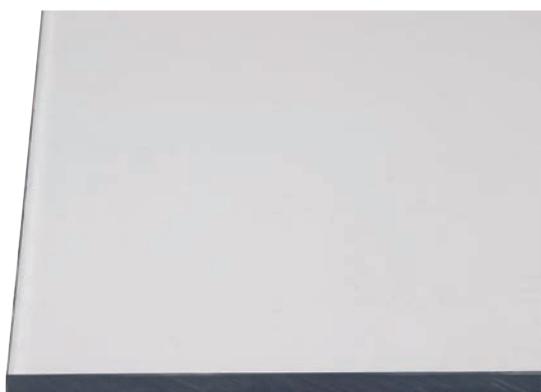


polypropylene especially designed for orthopaedic applications, moldable at 185-210 °C (e. g. in an infra-red drier) respectively at 200-210 °C (e. g. on a heating plate), weldable, deep drawable, colour: milky-white/clear-white

PU = 1 piece (2 sqm)

L x W x Thickness	Item-No.
2000 x 1000 x 2 mm	111P125/2
2000 x 1000 x 3 mm	111P125/3
2000 x 1000 x 4 mm	111P125/4
2000 x 1000 x 5 mm	111P125/5
2000 x 1000 x 6 mm	111P125/6

## Streifydur®



polypropylene, moldable at 180-200 °C, deep drawable, weldable, colour: light-grey

PU = 1 piece (2 sqm)

L x W x Thickness	Item-No.
2000 x 1000 x 2 mm	111P16/2
2000 x 1000 x 3 mm	111P16/3
2000 x 1000 x 4 mm	111P16/4
2000 x 1000 x 5 mm	111P16/5
2000 x 1000 x 6 mm	111P16/6

## Copolymer



special polypropylene, moldable at 175-190 °C, deep drawable, weldable, impact resistant

PU = 1 piece (2 sqm)

L x W x Thickness	Colour	Item-No.
2000 x 1000 x 2 mm	white	111P150/2
2000 x 1000 x 3 mm	white	111P150/3
2000 x 1000 x 4 mm	white	111P150/4
2000 x 1000 x 5 mm	white	111P150/5
2000 x 1000 x 6 mm	white	111P150/6
2000 x 1000 x 2 mm	peach	111P151/2
2000 x 1000 x 3 mm	peach	111P151/3
2000 x 1000 x 4 mm	peach	111P151/4
2000 x 1000 x 5 mm	peach	111P151/5
2000 x 1000 x 6 mm	peach	111P151/6

## Colordur



polypropylene, moldable at 180-200 °C, weldable

PU = 1 piece (2 sqm)

L x W x Thickness	Colour	Item-No.
2000 x 1000 x 4 mm	light blue	111P24/4
2000 x 1000 x 3 mm	brown	111P26/3
2000 x 1000 x 4 mm	brown	111P26/4
2000 x 1000 x 4 mm	yellow	111P27/4



## RCH 1000

pressed low pressure polyethylene, moldable at approx. 180 °C, deep drawable

PU = 1 piece

L x W x Thickness	Colour	Item-No.
1930 x 930 x 2 mm	off-white	111P120/2
1930 x 930 x 3 mm	off-white	111P120/3
1930 x 930 x 4 mm	off-white	111P120/4
1930 x 930 x 5 mm	off-white	111P120/5
1930 x 930 x 6 mm	off-white	111P120/6
1930 x 930 x 10 mm	peach	111P122/10
1930 x 930 x 2 mm	peach	111P122/2
1930 x 930 x 3 mm	peach	111P122/3
1930 x 930 x 4 mm	peach	111P122/4
1930 x 930 x 5 mm	peach	111P122/5
1930 x 930 x 6 mm	peach	111P122/6
1930 x 930 x 8 mm	peach	111P122/8
1930 x 930 x 2 mm	red	111P124/2
1930 x 930 x 3 mm	red	111P124/3
1930 x 930 x 4 mm	red	111P124/4
1930 x 930 x 5 mm	red	111P124/5
1930 x 930 x 2 mm	blue	111P126/2
1930 x 930 x 3 mm	blue	111P126/3
1930 x 930 x 4 mm	blue	111P126/4
1930 x 930 x 5 mm	blue	111P126/5



Very high strength.



## RCH 500

pressed high-density polyethylene, moldable at 160-170 °C, deep drawable, embossable

PU = 1 piece

L x W x Thickness	Colour	Item-No.
1910 x 920 x 1 mm	off-white	111P130/1
1910 x 920 x 2 mm	off-white	111P130/2
1910 x 920 x 3 mm	off-white	111P130/3
1910 x 920 x 4 mm	off-white	111P130/4
1910 x 920 x 5 mm	off-white	111P130/5
1910 x 920 x 6 mm	off-white	111P130/6
1910 x 920 x 8 mm	off-white	111P130/8
1910 x 920 x 1 mm	peach	111P132/1
1910 x 920 x 2 mm	peach	111P132/2
1910 x 920 x 3 mm	peach	111P132/3
1910 x 920 x 4 mm	peach	111P132/4
1910 x 920 x 5 mm	peach	111P132/5
1910 x 920 x 6 mm	peach	111P132/6
1910 x 920 x 8 mm	peach	111P132/8
1910 x 920 x 2 mm	red	111P134/2
1910 x 920 x 3 mm	red	111P134/3
1910 x 920 x 4 mm	red	111P134/4
1910 x 920 x 5 mm	red	111P134/5
1910 x 920 x 1 mm	blue	111P136/1
1910 x 920 x 2 mm	blue	111P136/2
1910 x 920 x 3 mm	blue	111P136/3
1910 x 920 x 4 mm	blue	111P136/4
1910 x 920 x 5 mm	blue	111P136/5
1910 x 920 x 2 mm	batik	111P140/2
1910 x 920 x 3 mm	batik	111P140/3
1910 x 920 x 4 mm	batik	111P140/4
1910 x 920 x 5 mm	batik	111P140/5



## PE Thermo Fabric

releases colours and patterns into white materials such as Streifylen, RCH 1000, RCH 500, Streifydur, Colorfoam, Multiform and Plastazote

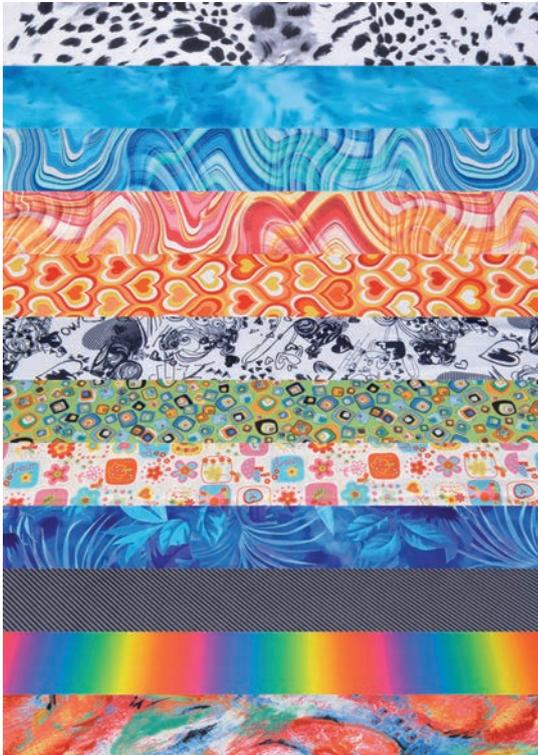
### Material

- 83 % polyester and 17 % elasthane

### Area-measured material

- knit and printed with colourful motives
- shiny, smooth surface
- longitudinal elasticity approx. 135 %
- transversal elasticity approx. 80 %

PU = meter



Width	Weight g/m	Motive	Item-No.
1600 mm	180	Dalmatian	8T26/01
1600 mm	180	Blue Batik	8T26/02
1600 mm	180	Blue Wave	8T26/03
1600 mm	180	Lava	8T26/04
1600 mm	180	Hearts	8T26/06
1600 mm	180	Black & White Hearts	8T26/07
1600 mm	180	Quadrats green	8T26/08
1600 mm	180	Flowers for Kids	8T26/09
1600 mm	180	Jungle	8T26/10
1600 mm	180	Carbon Design	8T26/11
1500 mm	180	Rainbow	8T51
1500 mm	180	Flower	8T52

Samples are available upon request.



May also be used as casting resin material.



## „Jungle“ Cloth for Resin Lamination Technique, Tubular Fabric

### Material

- 83 % polyester and 17 % elasthane

### Area-measured material

- knit and printed with colourful motives
- shiny, smooth surface
- longitudinal elasticity approx. 135 %
- transversal elasticity approx. 80 %
- sewed elastic hose, length approx. 150 cm (socket decor)

PU = piece



Width	Size	Item-No.
15 cm	small	8T81/S
20 cm	medium	8T81/M
25 cm	large	8T81/L

Samples are available upon request.

## Colouring Paper



- releases colours and patterns into white materials such as Streifylen, RCH 1000, RCH 500, Streifydur, Streifydur plus
- fine paper, material weight approx. 20 g/sqm
- only limited usability with Colorfoam, Multiform and Plastazote  
PU = 1 sheet (1500 x 1000 mm)

Length x Width	Motive	Item-No.
1500 x 1000 mm	Baby Bear red	110P1/03
1500 x 1000 mm	Baby Bear blue	110P1/04
1500 x 1000 mm	Jumbo	110P1/05
1500 x 1000 mm	Tornado	110P1/13
1500 x 1000 mm	Fly & Drive 1	110P1/14
1500 x 1000 mm	Fly & Drive 2	110P1/15
1500 x 1000 mm	Sky	110P1/16
1500 x 1000 mm	Ocean	110P1/23
1500 x 1000 mm	Military 2	110P1/25
1500 x 1000 mm	Butterfly	110P1/26
1500 x 1000 mm	Baby Bear white	110P1/27
1500 x 1000 mm	Denim	110P1/30
1500 x 1000 mm	Crazy	110P1/31
1500 x 1000 mm	Flash Light	110P1/32
1500 x 1000 mm	Dalmatian	110P1/48
1500 x 1000 mm	Iceage	110P1/50
1500 x 1000 mm	Raindrops	110P1/51
1500 x 1000 mm	Blue Skin	110P1/52
1500 x 1000 mm	Stars & Stripes	110P1/53
1500 x 1000 mm	MTV	110P1/56
1500 x 1000 mm	Butterfly-spring	110P1/60
1500 x 1000 mm	Lava	110P1/61
1500 x 1000 mm	Carbon	110P1/63
1500 x 1000 mm	Soccer I	110P1/64
1500 x 1000 mm	Soccer II	110P1/65
1500 x 1000 mm	Soccer Germany	110P1/66
1500 x 1000 mm	Pink Skin	110P1/67
1500 x 1000 mm	Hearts & Roses	110P1/68
1500 x 1000 mm	Tattoo	110P1/69
1500 x 1000 mm	Sweetheart	110P1/72
1500 x 1000 mm	blue	110P1/B
1500 x 1000 mm	yellow	110P1/G
1500 x 1000 mm	red	110P1/R
1500 x 1000 mm	black	110P1/S
1500 x 1000 mm	pink	110P1/P

Samples are available upon request!

 Optimum dyeing results are received at 185-200 °C (PE and PP). Please use the maximum processing temperature when working with foamed plastics such as Colorfoam, Multiform and Plastazote.

## Colouring Paper



- releases colours and patterns into white materials such as Streifylen, RCH 1000, RCH 500, Streifydur, Streifydur plus
- fine paper, material weight approx. 16 g/sqm
- only limited usability with Colorfoam, Multiform and Plastazote

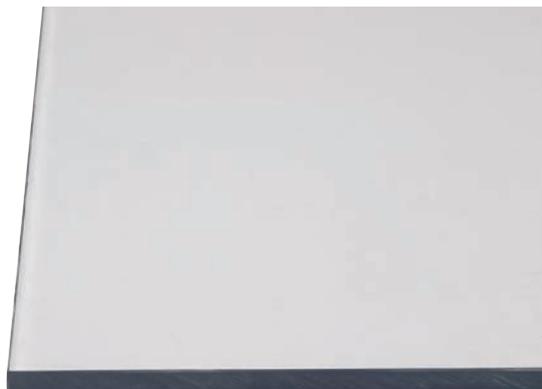
PU = 1 sheet (1600 x 1000 mm)

Length x Width	Motive	Item-No.
1600 x 1000 mm	Dalmatian	110P26/01
1600 x 1000 mm	Blue Batik	110P26/02
1600 x 1000 mm	Blue Wave	110P26/03
1600 x 1000 mm	Lava	110P26/04
1600 x 1000 mm	Denim	110P26/05
1600 x 1000 mm	Hearts	110P26/06
1600 x 1000 mm	Black & White Hearts	110P26/07
1600 x 1000 mm	Quadrats green	110P26/08
1600 x 1000 mm	Flowers for Kids	110P26/09
1600 x 1000 mm	Jungle	110P26/10
1600 x 1000 mm	Carbon Design	110P26/11

<P>Samples are available upon request!

 Optimum dyeing results are received at 185-200 °C (PE and PP). Please use the maximum processing temperature when working with foamed plastics such as Colorfoam, Multiform and Plastazote.

## PET



very suitable for deep drawing, for trial apparatus, recommended for facial masks after burn injuries, weldable, highly break-proof, no evident shrinking, physiologically safe, disinfected, moldable at 160-170 °C, colour: clear

PU = 1 piece (2 sqm)

L x W x Thickness	Item-No.
2000 x 1000 x 2 mm	111P18/2
2000 x 1000 x 3 mm	111P18/3
2000 x 1000 x 4 mm	111P18/4
2000 x 1000 x 5 mm	111P18/5
2000 x 1000 x 6 mm	111P18/6
2000 x 1000 x 8 mm	111P18/8

 Store PET material in a dry place.

## PET



recommended for interim prostheses, moldable at 160-170 °C, weldable, impact resistant, highly break-proof, no evident shrinking, colour: clear

PU = 1 piece

L x W x Thickness	Item-No.
400 x 400 x 8 mm	111P68/8
400 x 400 x 10 mm	111P68/10
400 x 400 x 12 mm	111P68/12
400 x 400 x 15 mm	111P68/15
400 x 400 x 20 mm	111P68/20
1200 x 800 x 8 mm	111P67/8
1200 x 800 x 10 mm	111P67/10
1200 x 800 x 12 mm	111P67/12
1200 x 800 x 15 mm	111P67/15
1200 x 800 x 20 mm	111P67/20



Deep drawing is facilitated by using antiadhesive templates item 168P75/S. Store PET material in a dry place.

## Streifydur®



polypropylene, mouldable at 185-200 °C, suitable for Cat-Cam-Technique, weldable, deep drawable, very rigid, resistant to body perspiration, good heat flowability, colour: clear-white

PU = 1 piece

L x W x Thickness	Item-No.
400 x 400 x 8 mm	111P63/8
400 x 400 x 10 mm	111P63/10
400 x 400 x 12 mm	111P63/12
400 x 400 x 15 mm	111P63/15
400 x 400 x 20 mm	111P63/20



Deep drawing is facilitated by using antiadhesive templates item 168P75/S.

## Streifyflex, Plus LDPE



soft polyethylene, suitable for Cat-Cam-Technique and sockets with container technology, moldable at approx. 150 °C, semi-elastic, colour: milky-white

PU = 1 piece

L x W x Thickness	Item-No.
400 x 400 x 10 mm	111P97/10
400 x 400 x 12 mm	111P97/12
2000 x 1000 x 10 mm	111P96/10
2000 x 1000 x 12 mm	111P96/12



Deep drawing is facilitated by using antiadhesive templates item 168P75/S.

## Streifyflex



for flexible inner sockets especially in the thigh area (ISNY-Socket-Technique), deep drawable, permanent elasticity, moldable at 130-135 °C, colour: translucent

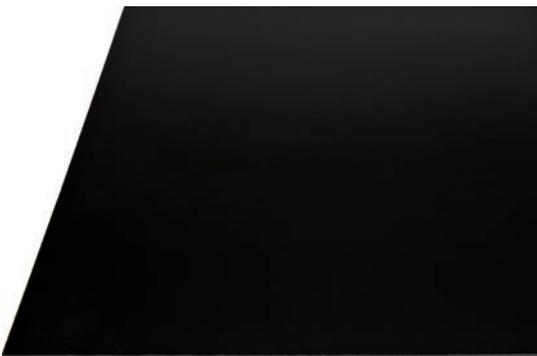
PU = 1 piece

L x W x Thickness	Item-No.
400 x 400 x 9 mm	111P62/9
400 x 400 x 12 mm	111P62/12
400 x 400 x 14 mm	111P62/14



Deep drawing is facilitated by using antiadhesive templates item 168P75/S.

## Streifyflex Black



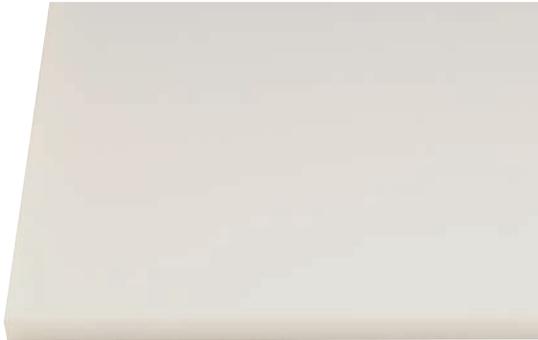
for flexible inner sockets especially in the thigh area (ISNY-Socket-Technique), permanently elastic, deep drawable, disinfected, thermoplastically remouldable, no visible shrinkage of the material after processing, moldable at 130-135 °C, color black

PU = 1 piece

L x W x Thickness	Item-No.
400 x 400 x 9 mm	111P71/9
400 x 400 x 12 mm	111P71/12
400 x 400 x 14 mm	111P71/14



Deep drawing is facilitated by using antiadhesive templates item 168P75/S.



## Streifyflex Super Plus

for M.A.S.-Technique, Cat-Cam-Technique or ISNY-sockets, semi-elastic, deep drawable, moldable at approx. 160 °C, colour: milky

PU = 1 piece

L x W x Thickness	Item-No.
400 x 400 x 12 mm	111P99/12
400 x 400 x 17 mm	111P99/17



Deep drawing is facilitated by using antiadhesive templates item 168P75/S.



## Streifyflex - „Deep Drawing Sheeting“, Clear

### Material

- permanent elasticity
- colour: clear

### Application range

- for shoe-insoles, for water-resistant splints and supports, for hand (metacarpus) splints and forerarm splints, in arm prosthetics, for foot prostheses (e. g. according to Bellmann), for prostheses sockets

### Processing

- moldable at 120-135 °C
- processing vacuum very low
- 20 % vacuum performance – measured by a vacuum device, Vacumat Plus item 168P50

### Insulation to model

- Nylon Stockinette item 95P2/...
- Silicone Spray item 116P11

PU = 1 roll (5 sqm)

Thickness	PU	Item-No.
1,5 mm	1 sqm (piece)	111P262/1
2 mm	1 sqm (piece)	111P262/2
3 mm	1 sqm (piece)	111P262/3
4 mm	1 sqm (piece)	111P262/4
5 mm	1 sqm (piece)	111P262/5
1,5 mm	5 sqm (roll)	111P162/1
2 mm	5 sqm (roll)	111P162/2
3 mm	5 sqm (roll)	111P162/3
4 mm	5 sqm (roll)	111P162/4



Streifyflex can be glued with Forte Rapid Adhesive 118P13. Carefully grind and degrease the areas where you intend to bond; apply adhesive to both sides, let it flash off, then press together.

### Helpful hints

- finely woven Heat Protective Gloves item 12P12
- short distance from oven to model
- clean sheeting on heating panel, no talcum powder
- perforate welded-on reinforcements to avoid air-pockets

## Streifyflex Color



### Material

- permanently elastic thermoforming film

### Application range

- for shoe-insoles, for water-resistant splints and supports, for hand (metacarpus) splints and forerarm splints, in arm prosthetics, for foot prostheses (e. g. according to Bellmann), for prostheses sockets

### Processing

- moldable at 120-135 °C
- processing vacuum very low
- 20 % vacuum performance – measured by a vacuum device, Vacumat Plus item.168P50

### Insulation to model

- Nylon Stockinette item 95P2/...
- Silicone Spray item 116P11

PU = 1 piece

L x W	Thickness	Colour	Item-No.
1115 x 900 mm	2 mm	white	111P263/2
1115 x 900 mm	2 mm	black	111P264/2
1115 x 900 mm	2 mm	blue	111P265/2
1115 x 900 mm	2 mm	light blue	111P266/2
1115 x 900 mm	2 mm	dark blue	111P267/2
1115 x 900 mm	2 mm	red	111P268/2
1115 x 900 mm	2 mm	light red	111P269/2
1115 x 900 mm	2 mm	dark red	111P270/2
1115 x 900 mm	2 mm	green	111P271/2
1115 x 900 mm	2 mm	neon pink	111P272/2
1115 x 900 mm	2 mm	neon yellow	111P273/2
1115 x 900 mm	2 mm	neon green	111P274/2
1115 x 900 mm	2 mm	gold	111P275/2
1115 x 900 mm	2 mm	silver	111P276/2
1115 x 900 mm	4 mm	white	111P263/4
1115 x 900 mm	4 mm	black	111P264/4
1115 x 900 mm	4 mm	blue	111P265/4
1115 x 900 mm	4 mm	light blue	111P266/4
1115 x 900 mm	4 mm	dark blue	111P267/4
1115 x 900 mm	4 mm	red	111P268/4
1115 x 900 mm	4 mm	light red	111P269/4
1115 x 900 mm	4 mm	dark red	111P270/4
1115 x 900 mm	4 mm	green	111P271/4
1115 x 900 mm	4 mm	neon pink	111P272/4
1115 x 900 mm	4 mm	neon yellow	111P273/4
1115 x 900 mm	4 mm	neon green	111P274/4
1115 x 900 mm	4 mm	gold	111P275/4
1115 x 900 mm	4 mm	silver	111P276/4

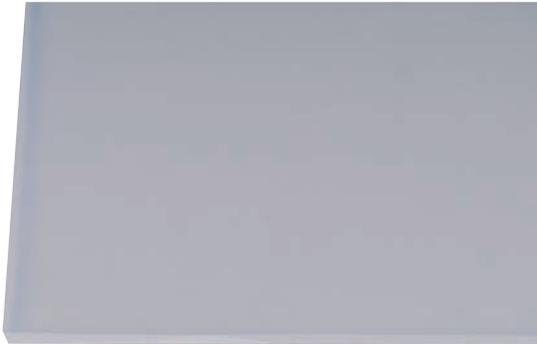


Streifyflex can be glued with Forte Rapid Adhesive 118P13. Carefully grind and degrease the areas where you intend to bond; apply adhesive to both sides, let it flash off, then press together.

### Helpful hints

- finely woven Heat Protective Gloves item 12P12
- short distance from oven to model
- clean sheeting on heating panel, no talcum powder
- perforate welded-on reinforcements to avoid air-pockets

## Streifytec Stiff



polystyrene, very hard, highly break-proof, deep drawable, moldable at approx. 170 °C, colour: translucent

PU = 1 piece

L x W x Thickness	Item-No.
400 x 400 x 8 mm	111P170/8
400 x 400 x 10 mm	111P170/10
400 x 400 x 12 mm	111P170/12
400 x 400 x 15 mm	111P170/15



Deep drawing is facilitated by using antiadhesive templates item 168P75/S.

## Streifytec Soft



ionomer, highly break-proof, deep drawable, flexibility depending on socket wall thickness, moldable at approx. 165 °C, colour: translucent

PU = 1 piece

L x W x Thickness	Item-No.
400 x 400 x 4,7 mm	111P174/4
400 x 400 x 6,3 mm	111P174/6
400 x 400 x 8,5 mm	111P174/8
400 x 400 x 11 mm	111P174/11



Deep drawing is facilitated by using antiadhesive templates item 168P75/S.

## Streifytec Extra Soft



EVA, soft, deep-drawable (high shrinking when cooling happens too fast), moldable at approx. 160 °C, colour: translucent

PU = 1 piece

L x W x Thickness	Item-No.
400 x 400 x 9 mm	111P176/9
400 x 400 x 12 mm	111P176/12



Deep drawing is facilitated by using antiadhesive templates item 168P75/S.

## Streifytec Extra Soft, with Silicone



EVA, soft, deep drawable, good adhesion to the skin of the stump, moldable at approx. 150 °C, colour: milky-white

PU = 1 piece

L x W x Thickness	Item-No.
400 x 400 x 6 mm	111P178/6
400 x 400 x 9 mm	111P178/9
400 x 400 x 12 mm	111P178/12



Deep drawing is facilitated by using antiadhesive templates item 168P75/S.

## Streifytec Extra Soft, beige



EVA, flexible, deep drawable (high shrinking when cooling happens too fast), moldable at approx. 160 °C, colour: beige

PU = 1 piece

L x W x Thickness	Item-No.
400 x 400 x 6 mm	111P180/6
400 x 400 x 8 mm	111P180/8
400 x 400 x 10 mm	111P180/10
400 x 400 x 12 mm	111P180/12



Deep drawing is facilitated by using antiadhesive templates item 168P75/S.

## Streifytec Excel



EVA, very respectively extra soft, deep drawable, moldable at approx. 155 °C, colour: translucent

PU = 1 piece

L x W x Thickness	Item-No.
400 x 400 x 10 mm	111P183/10
400 x 400 x 12 mm	111P183/12
400 x 400 x 15 mm	111P183/15



Deep drawing is facilitated by using antiadhesive templates item 168P75/S.

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## Streifycryl



laminated acrylic glass sheet, moldable at approx. 170 °C, colour: yellow-transparent

PU = 1 piece (1 sqm)

L x W x Thickness	Item-No.
1000 x 1000 x 3 mm	111P65/3

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## Altuglas



laminated acrylic glass sheet, moldable at approx. 170 °C, recommended for therapeutic trays on wheelchairs, colour: clear

PU = 1 piece (3,1 sqm)

L x W x Thickness	Item-No.
2030 x 1525 x 6 mm	111P69/6

## Turbocast



low temperature polyester, very easy to cut, elastic and moldable, work temperature 75-80 °C, non perforated, can be modelled after cooling-off shortly to approx. 40 °C with direct skin-contact

PU = 1 piece

L x W x Thickness	Colour	Item-No.
600 x 410 x 0,8 mm	green	111P81/08
600 x 430 x 1,6 mm	green	111P81/16
600 x 440 x 2,0 mm	green	111P81/20
600 x 450 x 3,0 mm	green	111P81/30
900 x 600 x 3,0 mm	green	111P810/30
600 x 410 x 0,8 mm	peach	111P86/08
600 x 430 x 1,6 mm	peach	111P86/16
600 x 440 x 2,0 mm	peach	111P86/20
600 x 450 x 3,0 mm	peach	111P86/30
600 x 450 x 4,0 mm	peach	111P86/40
900 x 600 x 3,0 mm	peach	111P860/30
900 x 600 x 4,0 mm	peach	111P860/40
600 x 410 x 0,8 mm	pink	111P87/08
600 x 430 x 1,6 mm	pink	111P87/16
600 x 440 x 2,0 mm	pink	111P87/20
900 x 600 x 3,0 mm	pink	111P870/30
600 x 410 x 0,8 mm	yellow	111P88/08
600 x 430 x 1,6 mm	yellow	111P88/16
600 x 440 x 2,0 mm	yellow	111P88/20
600 x 450 x 3,0 mm	yellow	111P88/30
900 x 600 x 3,0 mm	yellow	111P880/30
600 x 410 x 0,8 mm	blue	111P89/08
600 x 430 x 1,6 mm	blue	111P89/16
600 x 440 x 2,0 mm	blue	111P89/20
600 x 450 x 3,0 mm	blue	111P89/30
900 x 600 x 3,0 mm	blue	111P890/30

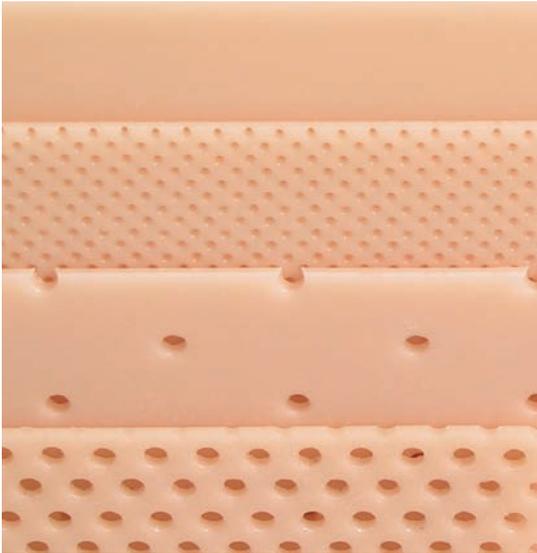


Due to special coating no adhesion to skin or hair. Molded material can be heated and returned to original condition. Please use our Water Bath/Vapour Bath item 35M1/1 to heat low temperature polyester materials.

## Turbocast „Ortho“

low temperature polyester, very easy to cut, elastic and moldable, processing temperature approx. 70 °C, colour: peach

PU = 1 piece



L x W x Thickness	Version	Item-No.
600 x 440 x 2,0 mm	non perforated	111P82/20
600 x 900 x 3,2 mm	non perforated	111P82/32
600 x 900 x 4,0 mm	non perforated	111P82/40
600 x 430 x 1,6 mm	micro, fine perforated	111P83/16
600 x 440 x 2,0 mm	micro, fine perforated	111P83/20
600 x 440 x 2,0 mm	mini, medium perforated	111P84/20
600 x 450 x 2,5 mm	mini, medium perforated	111P84/25
600 x 450 x 3,2 mm	mini, medium perforated	111P84/32
600 x 440 x 2,0 mm	multi, coarse perforated	111P85/20
600 x 450 x 3,2 mm	multi, coarse perforated	111P85/32



Molded material can be heated and returned to original condition. Please use our Water Bath/Vapour Bath item 35M1/1 to heat low temperature polyester materials.

# Cushioning Material



# Cushioning Material

In modern orthopaedic technology and orthopaedic shoe technology, more and more complex supply solutions are realized. This does not only make high demands on the professional qualification of orthopaedic technicians and orthopaedic shoe technicians but also on the materials used.

Subsequently, you will find a large variety of open-cell and closed-cell cushioning materials with different grades of shore hardness, damping and density. Additionally, we carry these materials in many different colours:

## Closed-cell foam materials

(e. g. Multiform, Colorfoam, Plastazote)

- Are thermoformable and thereby guarantee for a precisely fitting patient supply
- Degree of hardness is indicated in Shore A; the lower the Shore grade, the softer the plastic foam
- In orthopaedic technology and orthopaedic shoe technology primarily PE (foamed polyethylene) and EVA (ethylene vinyl acetate) are used

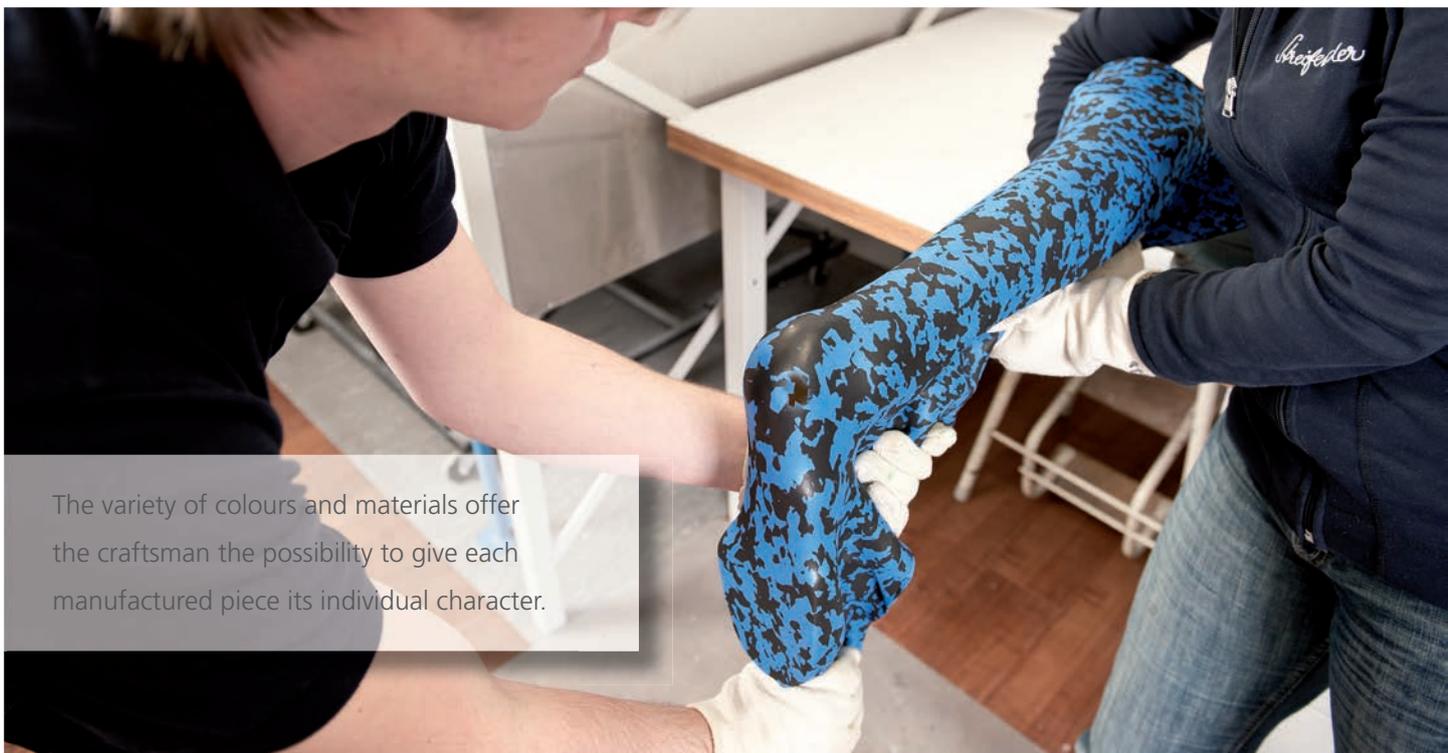
## Open-cell foam materials

(e. g. Memory foam, PPT)

- Are primarily used for positioning and cushioning
- Strength is indicated in density; the higher the density, the stronger is the plastic foam
- In orthopaedic technology and orthopaedic shoe technology predominantly foams made of PUR (polyurethane) are used

All cushioning materials of Streifeneder ortho. production GmbH are absolutely skin-friendly and are subject to constant and rigorous quality controls. Therefore, we always strictly meet the raw materials requirements issued by the German Medical Product Law MPG.

In addition, all our cushioning materials are of course AZO-free dyes.



The variety of colours and materials offer the craftsman the possibility to give each manufactured piece its individual character.

## Plastazote®



cell-polyethylene foam, molding temperature depending on heat source between 100-130 °C, closed-celled (spumed) PE, washable, suitable for processing with Streifylen and Streifycolor

approx. 15-18° Shore A hardness

L x W x Thickness	Colour	Pu/piece	Item-No.
2000 x 1000 x 2 mm	white	2 sqm	111P21/2
2000 x 1000 x 3 mm	white	2 sqm	111P21/3
2000 x 1000 x 4 mm	white	2 sqm	111P21/4
2000 x 1000 x 5 mm	white	2 sqm	111P21/5
2000 x 1000 x 6 mm	white	2 sqm	111P21/6
2000 x 1000 x 8 mm	white	2 sqm	111P21/8
2000 x 1000 x 10 mm	white	2 sqm	111P21/10
2000 x 1000 x 12 mm	white	2 sqm	111P21/12
2000 x 1000 x 15 mm	white	2 sqm	111P21/15
2000 x 1000 x 20 mm	white	2 sqm	111P21/20
1000 x 1000 x 2 mm	peach	1 sqm	111P28/2
1000 x 1000 x 3 mm	peach	1 sqm	111P28/3
1000 x 1000 x 4 mm	peach	1 sqm	111P28/4
1000 x 1000 x 5 mm	peach	1 sqm	111P28/5
1000 x 1000 x 6 mm	peach	1 sqm	111P28/6
1000 x 1000 x 8 mm	peach	1 sqm	111P28/8
1000 x 1000 x 9 mm	peach	1 sqm	111P28/9
1000 x 1000 x 10 mm	peach	1 sqm	111P28/10
1000 x 1000 x 12 mm	peach	1 sqm	111P28/12
1000 x 1000 x 15 mm	peach	1 sqm	111P28/15
1000 x 1000 x 18 mm	peach	1 sqm	111P28/18
1000 x 1000 x 20 mm	peach	1 sqm	111P28/20
1000 x 1000 x 25 mm	peach	1 sqm	111P28/25

Other thicknesses are available upon request!

# Cushionig Material



## Plastazote®

cell-polyethylene foam, molding temperature depending on heat source between 100-130 ° C, closed-celled (spumed) PE, washable, suitable for processing with Streifylen and Streifycolor

approx. 15-18° Shore A hardness

PU = 1 piece (2 sqm)

L x W x Thickness	Colour	Item-No.
2000 x 1000 x 2 mm	blue	111P34/2
2000 x 1000 x 3 mm	blue	111P34/3
2000 x 1000 x 4 mm	blue	111P34/4
2000 x 1000 x 5 mm	blue	111P34/5
2000 x 1000 x 6 mm	blue	111P34/6
2000 x 1000 x 8 mm	blue	111P34/8
2000 x 1000 x 10 mm	blue	111P34/10
2000 x 1000 x 12 mm	blue	111P34/12
2000 x 1000 x 20 mm	blue	111P34/20
2000 x 1000 x 3 mm	red	111P46/3
2000 x 1000 x 4 mm	red	111P46/4
2000 x 1000 x 6 mm	red	111P46/6
2000 x 1000 x 12 mm	red	111P46/12
2000 x 1000 x 3 mm	yellow	111P47/3
2000 x 1000 x 4 mm	yellow	111P47/4
2000 x 1000 x 6 mm	yellow	111P47/6
2000 x 1000 x 12 mm	yellow	111P47/12
2000 x 1000 x 3 mm	black	111P49/3
2000 x 1000 x 6 mm	black	111P49/6
2000 x 1000 x 8 mm	black	111P49/8
2000 x 1000 x 10 mm	black	111P49/10
2000 x 1000 x 20 mm	black	111P49/20
2000 x 1000 x 4 mm	green	111P48/4
2000 x 1000 x 6 mm	green	111P48/6

Other thicknesses are available upon request!



## Plastazote® perforated

cell-polyethylene foam, molding temperature depending on heat source between 100-130 °C, closed-celled (spumed) PE, washable, suitable for processing with Streifylen and Streifycolor

approx. 15-18° Shore A hardness

PU = 1 piece (1 sqm)

L x W x Thickness	Colour	Item-No.
1000 x 1000 x 3 mm	white	111P44/3
1000 x 1000 x 6 mm	white	111P44/6
1000 x 1000 x 12 mm	white	111P44/12
1000 x 1000 x 2 mm	peach	111P38/2
1000 x 1000 x 3 mm	peach	111P38/3
1000 x 1000 x 4 mm	peach	111P38/4
1000 x 1000 x 5 mm	peach	111P38/5
1000 x 1000 x 6 mm	peach	111P38/6
1000 x 1000 x 10 mm	peach	111P38/10
1000 x 1000 x 12 mm	peach	111P38/12
1000 x 1000 x 18 mm	peach	111P38/18
1000 x 1000 x 25 mm	peach	111P38/25
1000 x 1000 x 2 mm	blue	111P54/2
1000 x 1000 x 3 mm	blue	111P54/3
1000 x 1000 x 4 mm	blue	111P54/4
1000 x 1000 x 5 mm	blue	111P54/5
1000 x 1000 x 6 mm	blue	111P54/6
1000 x 1000 x 2 mm	red	111P55/2
1000 x 1000 x 3 mm	red	111P55/3
1000 x 1000 x 4 mm	red	111P55/4
1000 x 1000 x 6 mm	red	111P55/6
1000 x 1000 x 2 mm	yellow	111P56/2
1000 x 1000 x 3 mm	yellow	111P56/3
1000 x 1000 x 4 mm	yellow	111P56/4
1000 x 1000 x 6 mm	yellow	111P56/6
1000 x 1000 x 3 mm	black	111P57/3
1000 x 1000 x 6 mm	black	111P57/6

Other thicknesses are available upon request!

# Cushionig Material



## Evazote

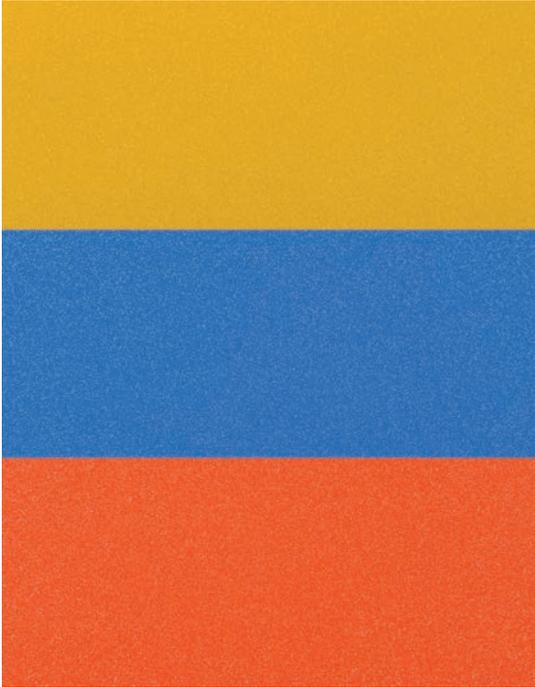
EVA-foam, mouldable at approx. 120 °C, similar to Plastazote but with a better restoring force

between 12-20° Shore A hardness, depending on colour and material thickness

PU = 1 piece (1 sqm)

L x W x Thickness	Colour	Pu/piece	Item-No.
1000 x 1000 x 3 mm	white	1 sqm	111P91/3
1000 x 1000 x 4 mm	white	1 sqm	111P91/4
1000 x 1000 x 5 mm	white	1 sqm	111P91/5
1000 x 1000 x 6 mm	white	1 sqm	111P91/6
1000 x 1000 x 8 mm	white	1 sqm	111P91/8
1000 x 1000 x 10 mm	white	1 sqm	111P91/10
1000 x 1000 x 12 mm	white	1 sqm	111P91/12
1000 x 1000 x 20 mm	white	1 sqm	111P91/20

## Evazote

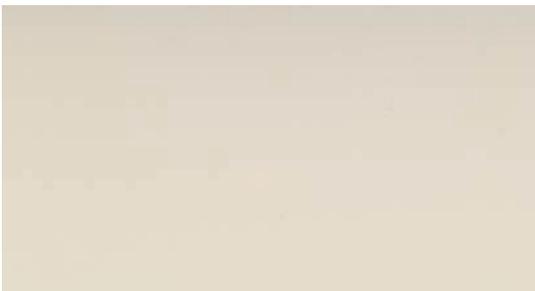


EVA-foam, mouldable at approx. 120 °C, similar to Plastazote but with a better restoring force

between 12-20° Shore A hardness, depending on colour and material thickness

L x W x Thickness	Colour	Pu/piece	Item-No.
1500 x 1000 x 2 mm	yellow	1,5 sqm	111P92/2
1500 x 1000 x 3 mm	yellow	1,5 sqm	111P92/3
1500 x 1000 x 4 mm	yellow	1,5 sqm	111P92/4
1500 x 1000 x 5 mm	yellow	1,5 sqm	111P92/5
1500 x 1000 x 6 mm	yellow	1,5 sqm	111P92/6
1000 x 1000 x 2 mm	blue	1 sqm	111P93/2
1000 x 1000 x 3 mm	blue	1 sqm	111P93/3
1000 x 1000 x 4 mm	blue	1 sqm	111P93/4
1000 x 1000 x 5 mm	blue	1 sqm	111P93/5
1000 x 1000 x 6 mm	blue	1 sqm	111P93/6
1000 x 1000 x 8 mm	blue	1 sqm	111P93/8
1000 x 1000 x 10 mm	blue	1 sqm	111P93/10
1000 x 1000 x 15 mm	blue	1 sqm	111P93/15
1000 x 1000 x 2 mm	red-orange	1 sqm	111P94/2
1000 x 1000 x 3 mm	red-orange	1 sqm	111P94/3
1000 x 1000 x 4 mm	red-orange	1 sqm	111P94/4
1000 x 1000 x 5 mm	red-orange	1 sqm	111P94/5
1000 x 1000 x 6 mm	red-orange	1 sqm	111P94/6

## Streifysoft-Volara

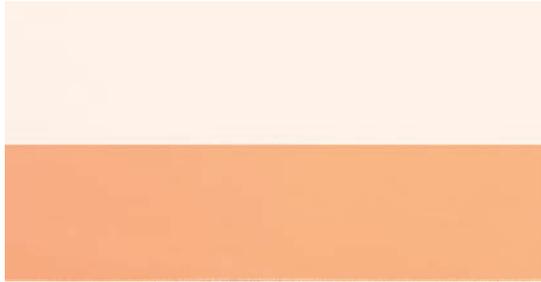


lining and corset material, brilliant surface, disinfected, may be thermoplastically welded with other thermoplastic materials (Streifylast, Streifylen), may be processed with a coarse or fine grained abrasive sleeve, moldable at 130-140 °C, colour: white

PU = 1 roll (5 m)

L x W x Thickness	Item-No.
5000 x 760 x 3 mm	110P63/3
5000 x 760 x 5 mm	110P63/5
5000 x 760 x 6 mm	110P63/6

# Cushionig Material



## Streifysoft 20

polyethylene foam, for soft inner socket, moldable at 120 °C

approx. 35° Shore A hardness, depending on colour and material thickness

PU = 1 piece

L x W x Thickness	Colour	Item-No.
1000 x 1000 x 2 mm	peach	110P62/2
1000 x 1000 x 3 mm	peach	110P62/3
1000 x 1000 x 4 mm	peach	110P62/4
1000 x 1000 x 5 mm	peach	110P62/5
1000 x 1000 x 6 mm	peach	110P62/6
1000 x 1000 x 7 mm	peach	110P62/7
1000 x 1000 x 10 mm	peach	110P62/10
1000 x 1000 x 20 mm	peach	110P62/20
1000 x 1000 x 2 mm	white	110P64/2
1000 x 1000 x 3 mm	white	110P64/3
1000 x 1000 x 4 mm	white	110P64/4
1000 x 1000 x 5 mm	white	110P64/5
1000 x 1000 x 7 mm	white	110P64/7
1000 x 1000 x 10 mm	white	110P64/10
1000 x 1000 x 15 mm	white	110P64/15
1000 x 1000 x 20 mm	white	110P64/20



## Multiform

polyethylene foam, closed-cell, washable, for cushionings for ortheses as well as softer inner sockets (Soft Sockets), moldable at approx. 130 °C

approx. 30° Shore A hardness, depending on colour and material thickness

PU = 1 piece

L x W x Thickness	Colour	Item-No.
1100 x 1100 x 2 mm	white	111P52/2
1100 x 1100 x 3 mm	white	111P52/3
1100 x 1100 x 4 mm	white	111P52/4
1100 x 1100 x 5 mm	white	111P52/5
1100 x 1100 x 6 mm	white	111P52/6
1100 x 1100 x 7 mm	white	111P52/7
1100 x 1100 x 10 mm	white	111P52/10
1100 x 1100 x 15 mm	white	111P52/15
1100 x 1100 x 20 mm	white	111P52/20
1100 x 1100 x 30 mm	white	111P52/30
1100 x 1100 x 2 mm	peach	111P53/2
1100 x 1100 x 3 mm	peach	111P53/3
1100 x 1100 x 4 mm	peach	111P53/4
1100 x 1100 x 5 mm	peach	111P53/5
1100 x 1100 x 6 mm	peach	111P53/6
1100 x 1100 x 7 mm	peach	111P53/7
1100 x 1100 x 8 mm	peach	111P53/8
1100 x 1100 x 10 mm	peach	111P53/10
1100 x 1100 x 12 mm	peach	111P53/12
1100 x 1100 x 30 mm	peach	111P53/30



Please use our Forte Rapid Adhesive item 118P13/... for the adhesion seam of the soft inner socket („Soft Socket“).

# Cushionig Material



## Multiform

polyethylene foam, closed-cell, washable, for cushionings for ortheses as well as softer inner sockets (Soft Sockets), moldable at approx. 130 °C

approx. 30° Shore A hardness  
, depending on colour and material thickness

PU = 1 piece

L x W x Thickness	Colour	Item-No.
1100 x 1100 x 2 mm	blue	111P72/2
1100 x 1100 x 3 mm	blue	111P72/3
1100 x 1100 x 4 mm	blue	111P72/4
1100 x 1100 x 5 mm	blue	111P72/5
1100 x 1100 x 6 mm	blue	111P72/6
1100 x 1100 x 7 mm	blue	111P72/7
1100 x 1100 x 10 mm	blue	111P72/10
1100 x 1100 x 12 mm	blue	111P72/12
1100 x 1100 x 15 mm	blue	111P72/15
1100 x 1100 x 30 mm	blue	111P72/30
1100 x 1100 x 2 mm	red	111P73/2
1100 x 1100 x 3 mm	red	111P73/3
1100 x 1100 x 4 mm	red	111P73/4
1100 x 1100 x 5 mm	red	111P73/5
1100 x 1100 x 7 mm	red	111P73/7
1100 x 1100 x 10 mm	red	111P73/10
1100 x 1100 x 15 mm	red	111P73/15
1100 x 1100 x 30 mm	red	111P73/30
1100 x 1100 x 2 mm	yellow	111P74/2
1100 x 1100 x 3 mm	yellow	111P74/3
1100 x 1100 x 4 mm	yellow	111P74/4
1100 x 1100 x 5 mm	yellow	111P74/5
1100 x 1100 x 7 mm	yellow	111P74/7
1100 x 1100 x 10 mm	yellow	111P74/10
1100 x 1100 x 30 mm	yellow	111P74/30
1100 x 1100 x 1 mm	brown	111P75/1
1100 x 1100 x 2 mm	brown	111P75/2
1100 x 1100 x 3 mm	brown	111P75/3
1100 x 1100 x 4 mm	brown	111P75/4
1100 x 1100 x 5 mm	brown	111P75/5
1100 x 1100 x 1 mm	black	111P76/1
1100 x 1100 x 2 mm	black	111P76/2
1100 x 1100 x 3 mm	black	111P76/3
1100 x 1100 x 4 mm	black	111P76/4
1100 x 1100 x 5 mm	black	111P76/5
1100 x 1100 x 2 mm	pink	111P79/2
1100 x 1100 x 3 mm	pink	111P79/3
1100 x 1100 x 4 mm	pink	111P79/4
1100 x 1100 x 5 mm	pink	111P79/5



Please use our Forte Rapid Adhesive item 118P13/... for the adhesion seam of the soft inner socket („Soft Socket“).



## Multiform perforated

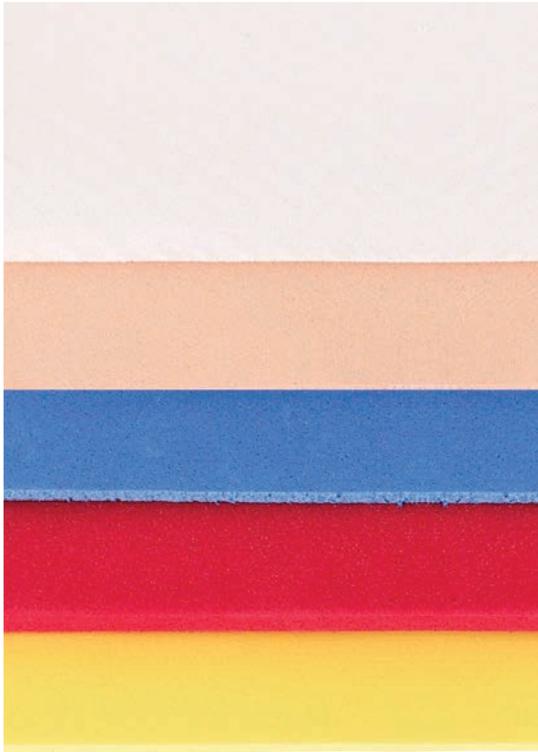
polyethylene foam, for cushionings for building orthoses as well as insoles, moldable at approx. 130 °C

approx. 30° Shore A hardness, depending on colour and material thickness

PU = 1 piece

L x W x Thickness	Colour	Item-No.
1100 x 1100 x 2 mm	white	111P52/2P
1100 x 1100 x 3 mm	white	111P52/3P
1100 x 1100 x 4 mm	white	111P52/4P
1100 x 1100 x 5 mm	white	111P52/5P
1100 x 1100 x 2 mm	peach	111P53/2P
1100 x 1100 x 3 mm	peach	111P53/3P
1100 x 1100 x 4 mm	peach	111P53/4P
1100 x 1100 x 5 mm	peach	111P53/5P
1100 x 1100 x 2 mm	blue	111P72/2P
1100 x 1100 x 3 mm	blue	111P72/3P
1100 x 1100 x 4 mm	blue	111P72/4P
1100 x 1100 x 5 mm	blue	111P72/5P
1100 x 1100 x 2 mm	red	111P73/2P
1100 x 1100 x 3 mm	red	111P73/3P
1100 x 1100 x 4 mm	red	111P73/4P
1100 x 1100 x 5 mm	red	111P73/5P
1100 x 1100 x 2 mm	yellow	111P74/2P
1100 x 1100 x 3 mm	yellow	111P74/3P
1100 x 1100 x 4 mm	yellow	111P74/4P
1100 x 1100 x 5 mm	yellow	111P74/5P
1100 x 1100 x 2 mm	brown	111P75/2P
1100 x 1100 x 3 mm	brown	111P75/3P
1100 x 1100 x 4 mm	brown	111P75/4P
1100 x 1100 x 5 mm	brown	111P75/5P
1100 x 1100 x 2 mm	black	111P76/2P
1100 x 1100 x 3 mm	black	111P76/3P
1100 x 1100 x 4 mm	black	111P76/4P
1100 x 1100 x 5 mm	black	111P76/5P

# Cushionig Material



## Colorfoam

polyethylene foam, for firmer soft inner sockets (Soft Sockets), moldable at 130-135 °C, deep drawable, non shrinking, good restoring force

between 40-45° Shore A hardness, depending on colour and material thickness

PU = 1 piece (1,6 sqm)

L x W x Thickness	Colour	Item-No.
1800 x 900 x 2 mm	white	110P70/2
1800 x 900 x 3 mm	white	110P70/3
1800 x 900 x 4 mm	white	110P70/4
1800 x 900 x 5 mm	white	110P70/5
1800 x 900 x 7 mm	white	110P70/7
1800 x 900 x 10 mm	white	110P70/10
1800 x 900 x 20 mm	white	110P70/20
1800 x 900 x 2 mm	peach	110P71/2
1800 x 900 x 3 mm	peach	110P71/3
1800 x 900 x 4 mm	peach	110P71/4
1800 x 900 x 5 mm	peach	110P71/5
1800 x 900 x 7 mm	peach	110P71/7
1800 x 900 x 10 mm	peach	110P71/10
1800 x 900 x 20 mm	peach	110P71/20
1800 x 900 x 2 mm	blue	110P72/2
1800 x 900 x 3 mm	blue	110P72/3
1800 x 900 x 4 mm	blue	110P72/4
1800 x 900 x 5 mm	blue	110P72/5
1800 x 900 x 7 mm	blue	110P72/7
1800 x 900 x 10 mm	blue	110P72/10
1800 x 900 x 2 mm	red	110P73/2
1800 x 900 x 3 mm	red	110P73/3
1800 x 900 x 4 mm	red	110P73/4
1800 x 900 x 5 mm	red	110P73/5
1800 x 900 x 7 mm	red	110P73/7
1800 x 900 x 10 mm	red	110P73/10
1800 x 900 x 2 mm	yellow	110P74/2
1800 x 900 x 3 mm	yellow	110P74/3
1800 x 900 x 4 mm	yellow	110P74/4
1800 x 900 x 5 mm	yellow	110P74/5
1800 x 900 x 2 mm	green	110P80/2
1800 x 900 x 3 mm	green	110P80/3
1800 x 900 x 4 mm	green	110P80/4
1800 x 900 x 5 mm	green	110P80/5

Other thicknesses are available upon request! Due to production related reasons, the sheet size may vary up to 5 %.



Please use our Forte Rapid Adhesive item 118P13/... for the adhesion seam of the soft inner socket („Soft Socket“).

## Colorfoam



polyethylene foam, for cushionings for building ortheses as well as insoles, moldable at 130-135 °C, deep drawable, non shrinking, good restoring force

Multicolour: between 30-35° Shore A hardness, depending on colour and material thickness

PU = 1 piece (1,6 sqm)

L x W x Thickness	Colour	Item-No.
1800 x 900 x 2 mm	black/yellow	110P76/2
1800 x 900 x 3 mm	black/yellow	110P76/3
1800 x 900 x 4 mm	black/yellow	110P76/4
1800 x 900 x 2 mm	black/purple	110P77/2
1800 x 900 x 3 mm	black/purple	110P77/3
1800 x 900 x 4 mm	black/purple	110P77/4
1800 x 900 x 5 mm	black/purple	110P77/5
1800 x 900 x 2 mm	black/blue	110P78/2
1800 x 900 x 3 mm	black/blue	110P78/3
1800 x 900 x 4 mm	black/blue	110P78/4
1800 x 900 x 5 mm	black/blue	110P78/5
1800 x 900 x 2 mm	black/white	110P79/2
1800 x 900 x 3 mm	black/white	110P79/3
1800 x 900 x 4 mm	black/white	110P79/4
1800 x 900 x 5 mm	black/white	110P79/5
1800 x 900 x 2 mm	pink/white	110P81/2
1800 x 900 x 3 mm	pink/white	110P81/3
1800 x 900 x 4 mm	pink/white	110P81/4
1800 x 900 x 5 mm	pink/white	110P81/5
1800 x 900 x 2 mm	purple/multi	110P85/2
1800 x 900 x 3 mm	purple/multi	110P85/3
1800 x 900 x 4 mm	purple/multi	110P85/4
1800 x 900 x 5 mm	purple/multi	110P85/5
1800 x 900 x 2 mm	red/multi	110P86/2
1800 x 900 x 3 mm	red/multi	110P86/3
1800 x 900 x 4 mm	red/multi	110P86/4
1800 x 900 x 5 mm	red/multi	110P86/5

Other thicknesses are available upon request! Due to production related reasons, the sheet size may vary up to 5 %.

# Cushionig Material



## Colorfoam perforated

polyethylene foam, for cushionings for building orthoses as well as insoles, moldable at approx. 135 °C, deep drawable, non shrinking, good restoring force

Single-coloured: between 40-45° Shore A hardness, depending on colour and material thickness

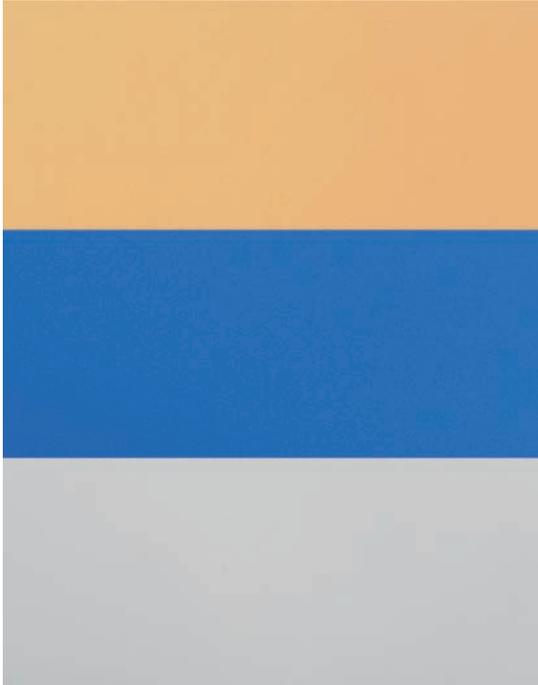
Multicolour: between 30-35° Shore A hardness, depending on colour and material thickness

PU = 1 piece (1,6 sqm)

L x W x Thickness	Colour	Item-No.
1800 x 900 x 2 mm	white	110P70/2P
1800 x 900 x 3 mm	white	110P70/3P
1800 x 900 x 4 mm	white	110P70/4P
1800 x 900 x 5 mm	white	110P70/5P
1800 x 900 x 2 mm	peach	110P71/2P
1800 x 900 x 3 mm	peach	110P71/3P
1800 x 900 x 4 mm	peach	110P71/4P
1800 x 900 x 5 mm	peach	110P71/5P
1800 x 900 x 2 mm	blue	110P72/2P
1800 x 900 x 3 mm	blue	110P72/3P
1800 x 900 x 4 mm	blue	110P72/4P
1800 x 900 x 5 mm	blue	110P72/5P
1800 x 900 x 2 mm	red	110P73/2P
1800 x 900 x 3 mm	red	110P73/3P
1800 x 900 x 4 mm	red	110P73/4P
1800 x 900 x 5 mm	red	110P73/5P
1800 x 900 x 2 mm	yellow	110P74/2P
1800 x 900 x 3 mm	yellow	110P74/3P
1800 x 900 x 4 mm	yellow	110P74/4P
1800 x 900 x 5 mm	yellow	110P74/5P
1800 x 900 x 2 mm	purple/multi	110P85/2P
1800 x 900 x 3 mm	purple/multi	110P85/3P
1800 x 900 x 4 mm	purple/multi	110P85/4P
1800 x 900 x 5 mm	purple/multi	110P85/5P
1800 x 900 x 2 mm	red/multi	110P86/2P
1800 x 900 x 3 mm	red/multi	110P86/3P
1800 x 900 x 4 mm	red/multi	110P86/4P
1800 x 900 x 5 mm	red/multi	110P86/5P

Other thicknesses are available upon request! Due to production related reasons, the sheet size may vary up to 5 %.

## Streifyfoam



polyethylene foam, for firmer soft inner sockets (Soft Sockets), deep drawable, non-shrinking, good restoring force, moldable at 130-135 °C

between 35-40° Shore A hardness, depending on colour and material thickness

PU = 1 piece (approx. 2-2,4 sqm depending on material thickness)

L x W x Thickness	Colour	Item-No.
1050 x 2100 x 2 mm	peach	110P90/2
1050 x 2100 x 3 mm	peach	110P90/3
1050 x 2100 x 4 mm	peach	110P90/4
1050 x 2100 x 5 mm	peach	110P90/5
1050 x 2100 x 7 mm	peach	110P90/7
1050 x 2100 x 10 mm	peach	110P90/10
1000 x 2000 x 2 mm	blue	110P91/2
1000 x 2000 x 3 mm	blue	110P91/3
1000 x 2000 x 4 mm	blue	110P91/4
1000 x 2000 x 5 mm	blue	110P91/5
1000 x 2000 x 7 mm	blue	110P91/7
1000 x 2000 x 10 mm	blue	110P91/10
1000 x 2000 x 2 mm	white	110P92/2
1000 x 2000 x 3 mm	white	110P92/3
1000 x 2000 x 4 mm	white	110P92/4
1000 x 2000 x 5 mm	white	110P92/5
1000 x 2000 x 7 mm	white	110P92/7
1000 x 2000 x 10 mm	white	110P92/10

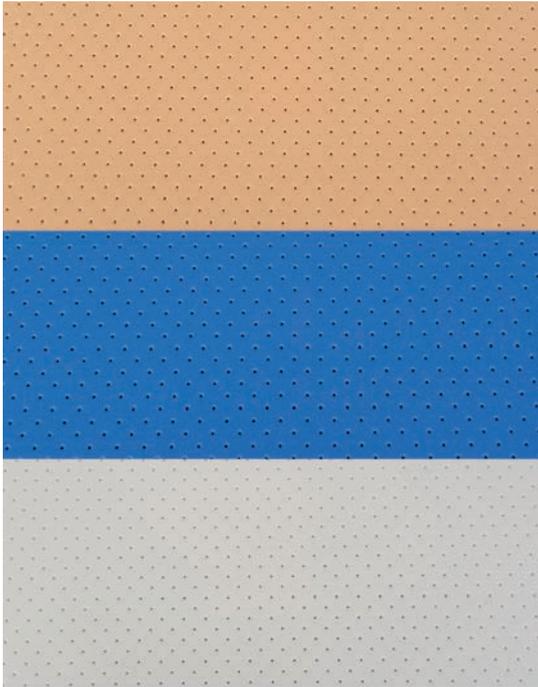
Other thicknesses are available upon request! Due to production related reasons, the sheet size may vary up to 5 %.



Please use our Forte Rapid Adhesive item 118P13/... for the adhesion seam of the soft inner socket („Soft Socket“).

# Cushionig Material

## Streifyfoam perforated



polyethylene foam, deep drawable, non-shrinking, good restoring force, moldable at 130-135 °C

between 35-40° Shore A hardness, depending on colour and material thickness

PU = 1 piece (approx. 2-2,4 sqm depending on material thickness)

L x W x Thickness	Colour	Item-No.
1050 x 2100 x 2 mm	peach	110P90/2P
1050 x 2100 x 3 mm	peach	110P90/3P
1050 x 2100 x 4 mm	peach	110P90/4P
1050 x 2100 x 5 mm	peach	110P90/5P
1050 x 2100 x 7 mm	peach	110P90/7P
1000 x 2000 x 2 mm	blue	110P91/2P
1000 x 2000 x 3 mm	blue	110P91/3P
1000 x 2000 x 4 mm	blue	110P91/4P
1000 x 2000 x 5 mm	blue	110P91/5P
1000 x 2000 x 2 mm	white	110P92/2P
1000 x 2000 x 3 mm	white	110P92/3P
1000 x 2000 x 4 mm	white	110P92/4P
1000 x 2000 x 5 mm	white	110P92/5P

Other thicknesses are available upon request! Due to production related reasons, the sheet size may vary up to 5 %.



Please use our Forte Rapid Adhesive item 118P13/... for the adhesion seam of the soft inner socket („Soft Socket“).

## Nora®-Lunairmed



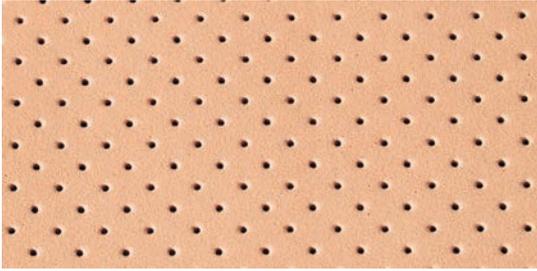
EVA padding material, very suitable for the manufacturing of inner shoes and bedding devices, moldable at 110-130 °C, colour: peach-FB 07

approx. 18° Shore A hardness

PU = 1 piece

L x W x Thickness	Item-No.
980 x 640 x 2 mm	111P100/2
980 x 640 x 3 mm	111P100/3
980 x 640 x 4 mm	111P100/4
980 x 640 x 5 mm	111P100/5
980 x 640 x 6 mm	111P100/6
980 x 640 x 8 mm	111P100/8
980 x 640 x 12 mm	111P100/12
980 x 640 x 24 mm	111P100/24

## Nora®-Lunairmed perforated



EVA padding material, very suitable for the manufacturing of inner shoes and bedding devices, moldable at approx. 110-130° C, colour: peach-FB 07

approx. 22° Shore A hardness

PU = 1 piece

L x W x Thickness	Item-No.
1280 x 980 x 3 mm	111P101/3
1280 x 980 x 6 mm	111P101/6

## Nora®-Lunairflex



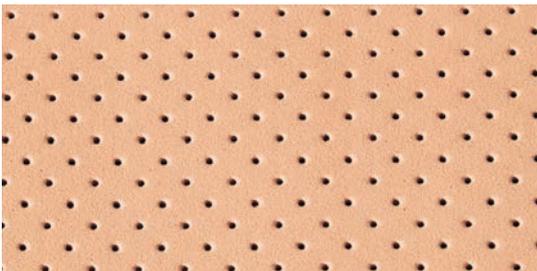
padding material, very suitable for the manufacturing of inner shoes and bedding devices, moldable at approx. 110-130 °C, colour: peach-FB 07

approx. 22° Shore A hardness

PU = 1 piece

L x W x Thickness	Item-No.
920 x 700 x 3 mm	111P106/3
920 x 700 x 4 mm	111P106/4
920 x 700 x 6 mm	111P106/6
920 x 700 x 8 mm	111P106/8
920 x 700 x 12 mm	111P106/12
920 x 700 x 24 mm	111P106/24

## Nora®-Lunairflex perforated



padding material, very suitable for the manufacturing of inner shoes and bedding devices, moldable at approx. 110-130 °C, colour: peach-FB 07

approx. 22° Shore A hardness

PU = 1 piece

L x W x Thickness	Item-No.
1400 x 920 x 3 mm	111P107/3
1400 x 920 x 6 mm	111P107/6

# Cushionig Material



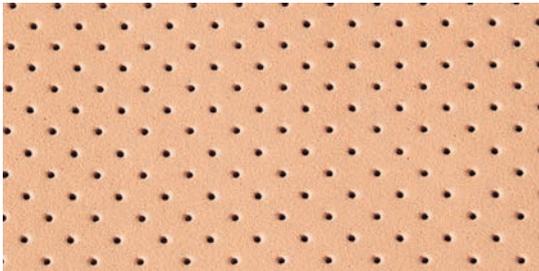
## Nora®-Lunalastik

padding material with very high restoring ability (memory), moldable at approx. 110-130 °C, colour: peach-FB 07

approx. 25° Shore A hardness

PU = 1 piece

L x W x Thickness	Item-No.
850 x 610 x 3 mm	111P102/3
850 x 610 x 4 mm	111P102/4
850 x 610 x 5 mm	111P102/5
850 x 610 x 6 mm	111P102/6
850 x 610 x 8 mm	111P102/8



## Nora®-Lunalastik perforated

padding material with very high restoring ability (memory), moldable at approx. 110-130 °C, colour: peach-FB 07

approx. 25° Shore A hardness

PU = 1 piece

L x W x Thickness	Item-No.
1220 x 850 x 3 mm	111P103/3
1220 x 850 x 6 mm	111P103/6



## Nora®-Lunasoft SL

padding material, moldable at approx. 120-170 °C, colour: peach-FB 07

approx. 40° Shore A hardness

PU = 1 piece

L x W x Thickness	Item-No.
890 x 640 x 2 mm	111P105/2
890 x 640 x 3 mm	111P105/3
890 x 640 x 4 mm	111P105/4
890 x 640 x 5 mm	111P105/5
890 x 640 x 6 mm	111P105/6
890 x 640 x 8 mm	111P105/8
890 x 640 x 10 mm	111P105/10
890 x 640 x 12 mm	111P105/12



The quoted temperatures vary depending on material thickness and density.

## Nora®-Lunasoft SLW



padding material, moldable at approx. 120-170 °C, colour: peach-FB 07

approx. 30° Shore A hardness

PU = 1 piece

L x W x Thickness	Item-No.
890 x 640 x 2 mm	111P104/2
890 x 640 x 3 mm	111P104/3
890 x 640 x 4 mm	111P104/4
890 x 640 x 5 mm	111P104/5
890 x 640 x 6 mm	111P104/6
890 x 640 x 8 mm	111P104/8
890 x 640 x 10 mm	111P104/10
890 x 640 x 12 mm	111P104/12



The quoted temperatures vary depending on material thickness and density.

## Nora®-Lunasoft AL



padding material, moldable at approx. 120-170 °C, colour: peach-FB 07

approx. 50° Shore A hardness

PU = 1 piece

L x W x Thickness	Item-No.
920 x 560 x 6 mm	111P109/6
920 x 560 x 8 mm	111P109/8
920 x 560 x 10 mm	111P109/10



The quoted temperatures vary depending on material thickness and density.

## Nora®-Lunacell



padding material, mouldable at approx. 120-170 °C, colour: peach-FB 07

approx. 68° Shore A hardness

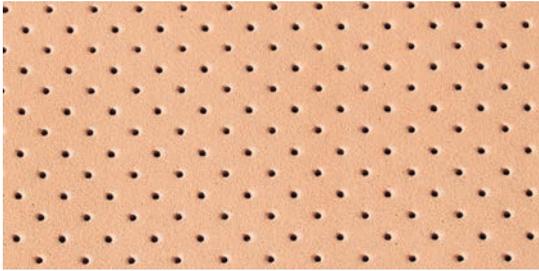
PU = 1 piece

L x W x Thickness	Item-No.
1080 x 850 x 1,5 mm	111P110
850 x 540 x 2,0 mm	111P110/2



The quoted temperatures vary depending on material thickness and density.

# Cushionig Material



## Nora®-Lunacell perforated

padding material, moldable at approx. 120-170 °C, colour: peach-FB 07

approx. 68° Shore A hardness

PU = 1 piece

L x W x Thickness	Item-No.
1080 x 850 x 1,5 mm	111P111



The quoted temperatures vary depending on material thickness and density.

Other products of the company „Freudenberg“ like different colours, profiles, shore hardnesses are available upon request!



## PPT

PU padding material, brushed/coarse on one side, very high restoring ability (memory), PU foam very soft, permanent loading capacity, colour: peach

approx. 13° Shore A hardness

PU = 1 piece (1 sqm)

L x W x Thickness	Item-No.
1000 x 1000 x 1,5 mm	110P50/15
1000 x 1000 x 3 mm	110P50/30
1000 x 1000 x 6 mm	110P50/60
1000 x 1000 x 9 mm	110P50/90



Due to production related reasons, the sheet size may vary up to 5 %.



## PPT perforated

PU padding material, brushed/coarse on one side, very high restoring ability (memory), PU foam very soft, permanent loading capacity, colour: peach

approx. 13° Shore A hardness

PU = 1 piece (1 sqm)

L x W x Thickness	Item-No.
1000 x 1000 x 1,5 mm	110P50/15P
1000 x 1000 x 3 mm	110P50/30P
1000 x 1000 x 6 mm	110P50/60P



Other thicknesses are available upon request! Due to production related reasons, the sheet size may vary up to 5 %.

## Pryx



good deep-drawing abilities, this EVA-material is suitable for building insoles and supplements, at approx. 150-180 °C

PU = 1 piece

L x W x Thickness	Colour	Item-No.
1450 x 760 x 1 mm	brown	111P22/1
1450 x 760 x 1 mm	black	111P14/1
470 x 760 x 1 mm	white	111P23/1
470 x 760 x 3 mm	white	111P23/3
470 x 760 x 6 mm	white	111P23/6



Due to its thermo stable properties, this material may be used as a placeholder (dummy).

## Neopolen



polyethylene foam, shock absorbing, washable, water resistant, odorless, shape retaining, very suitable for all types of bedding devices (bucket-seat), colour: off white

PU = 1 piece (2 sqm)

L x W x Thickness	Item-No.
2000 x 1000 x 50 mm	110P60/50
2000 x 1000 x 100 mm	110P60/100

## Terry Foam



PE foam material with cotton terry cloth cover, closed-cell, colour: white

PU = running meter

Width x Thickness	Item-No.
1500 x 3 mm	111P40

# Cushionig Material

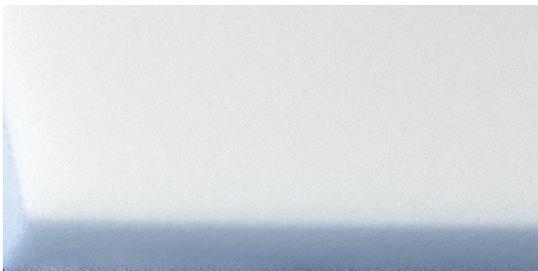
## Mipolam



soft PVC material, for water-resistant knee holder straps and cuffs for bathing prostheses, colour: honey-yellow/transparent

L x W x Thickness	Pu/piece	Item-No.
2000 x 1000 x 3 mm	approx. 7,5 kg	111P13/3
2000 x 1000 x 6 mm	approx. 15 kg	111P13/6

## Moltopren



PU soft foam material, density 40 kg/m<sup>3</sup>, colour: white

PU = 1 piece (2 sqm)

L x W x Thickness	Item-No.
2000 x 1000 x 5 mm	111P1/5
2000 x 1000 x 10 mm	111P1/10
2000 x 1000 x 20 mm	111P1/20
2000 x 1000 x 25 mm	111P1/25
2000 x 1000 x 30 mm	111P1/30
2000 x 1000 x 40 mm	111P1/40
2000 x 1000 x 50 mm	111P1/50
2000 x 1000 x 100 mm	111P1/100

## Memory Foam, Density 60



open-cell PUR foam with specific viscoelastic characteristics, suitable for the prevention of decubitus, for seat pillows and soft bedding, density 60 kg/m<sup>3</sup>, compression hardness 6,0 kPa, colour: yellow

PU = 1 piece (2 sqm)

L x W x Thickness	Item-No.
2000 x 1000 x 10 mm	111P2/10
2000 x 1000 x 20 mm	111P2/20
2000 x 1000 x 30 mm	111P2/30
2000 x 1000 x 50 mm	111P2/50
2000 x 1000 x 100 mm	111P2/100

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## Memory Foam, Density 60



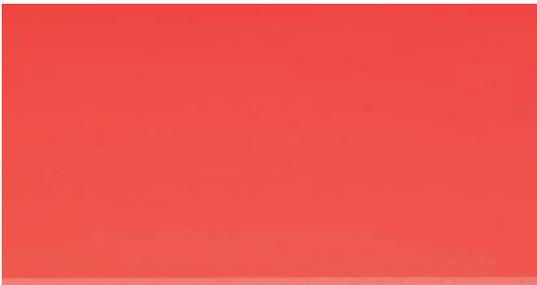
open-cell PUR foam with specific viscoelastic characteristics, suitable for the prevention of decubitus, for seat pillows and soft bedding, density 60 kg/m<sup>3</sup>, compression hardness 12,0 kPa, colour: pink

PU = 1 piece (2 sqm)

L x W x Thickness	Item-No.
2000 x 1000 x 10 mm	111P3/10
2000 x 1000 x 20 mm	111P3/20
2000 x 1000 x 30 mm	111P3/30
2000 x 1000 x 40 mm	111P3/40
2000 x 1000 x 50 mm	111P3/50
2000 x 1000 x 100 mm	111P3/100

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## ST Diabetic-Material



PU soft foam, high but deferred restoring force, surge- and pressure-absorbing, good bonding characteristics, plain on both sides, colour: red

approx. 10° shore A hardness

PU = 1 piece

L x W x Thickness	Item-No.
1370 x 1000 x 3 mm	110P65/3
1370 x 1000 x 5 mm	110P65/5
1370 x 1000 x 6 mm	110P65/6

---

## Latex Cushioning Foam



hard quality, grindable, colour: skin

PU = 1 piece

L x W x Thickness	Item-No.
1500 x 1000 x 3 mm	135P1/3
1500 x 1000 x 6 mm	135P1/6
1500 x 1000 x 10 mm	135P1/10



## Padding Material



# Padding Material

Every orthopaedic technician endeavors to make wearing an aid as comfortable as possible for the patient. Obviously, first of all a faultless function must be ensured, however, depending on the indication it is often necessary to provide the aid with protective or comfortable elements as well. There is a variety of different materials for almost any aid.

On the following pages, aside from foams, rubber compounds, artificial leather and fleeces you will also find natural materials such as felts and cork materials.



The use of high-quality padding material and cushions (elastomeric material) is imperative more than ever in the area of seat pan construction. Among other things, the materials must be shock absorbent, incontinence resistant, washable, odorless, form stable and breathable. Therefore, PE foams are predominantly used for padding materials and for padding fabrics polyacryl materials or artificial leather with PU coating are exclusively used.

We also offer an ample number of different felts. You can choose between cushioning felts, saddle felts, or stitched felts. Animal hair (sheep's wool) is exclusively used for fabrication. Besides the common grades of thickness, you can also choose from various degrees of hardness (soft, medium, hard). Our felts are elastic, temperature-resistant, skin-friendly, air-permeable, and incombustible.

At the end of this chapter, you will find cork and cap fabrics that are used for bedding, insoles, and constructional applications.

## Cellular Rubber



onesided with coating, suitable for paddings of any kind, not thermoplastic approx. 25-30° Shore A hardness

PU = 1 piece (1 sqm)

L x W x Thickness	Colour	Item-No.
1000 x 1000 x 3 mm	grey	135P5/3
1000 x 1000 x 4 mm	grey	135P5/4
1000 x 1000 x 5 mm	grey	135P5/5
1000 x 1000 x 3 mm	peach	135P7/3
1000 x 1000 x 4 mm	peach	135P7/4
1000 x 1000 x 5 mm	peach	135P7/5



The technical term for foamed rubber is cellular rubber. It is a closed-cell elastomer which as a rule will not absorb fluid.

## Cellular Caoutchouc



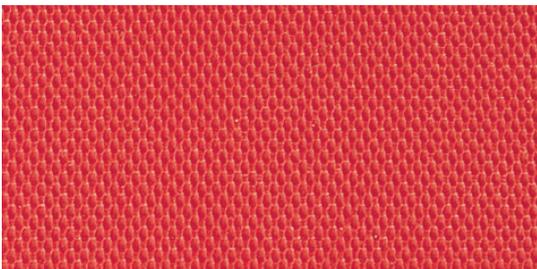
suitable for paddings of any kind, not thermoplastic, without coating on both sides

between 10-15° Shore A hardness

PU = 1 piece

L x W x Thickness	Colour	Item-No.
1000 x 1350 x 5 mm	peach	135P21/5
1000 x 1000 x 4 mm	grey	135P9/4
1000 x 1000 x 6 mm	grey	135P9/6
1000 x 1000 x 10 mm	grey	135P9/10

## Structured Rubber Sheet



with woven cloth backing, as an impact protection, anti-slip-property for building arch supports

PU = 1 piece

L x W x Thickness	Colour	Item-No.
1000 x 1000 x 1 mm	red	135P4/R

# Padding Material



## Elasticated Strap with Nops

with woven cloth backing, 100 % natural rubber

PU = running meter

Width	Item-No.
100 mm	135P3



## Orthoprene® - Neoprene

basic version, double-sided textile lamination (nylon/polyester jersey)

approx. 10° Shore A hardness

Following special types are available upon request:

- without textile lamination
- with textile lamination (one-sided)
- with fleece lamination (velcro hook) available in black, navy-blue, nature and white (with surcharge)

PU = 1 piece

L x W x Thickness	Item-No.
2100 x 1350 x 2 mm	114P1/2
2100 x 1350 x 3 mm	114P1/3
2100 x 1350 x 4 mm	114P1/4
2100 x 1350 x 5 mm	114P1/5
2100 x 1350 x 6 mm	114P1/6
2100 x 1350 x 7 mm	114P1/7
2100 x 1350 x 10 mm	114P1/10

<P>Further special types like different surface structure, fleece lamination or other textile-lamination are available upon request.

<P>Due to the numerous combination possibilities, Orthoprene® is not in stock and the delivery time is approx. 14 days.



Foamed Orthopren (Neopren) is a foamed rubber and stands out especially for its extraordinary insulating characteristics (e. g. diving suits).



## Imitation Leather (Skai)

with a textile lining, bi-elastic, available in different colours

PU = running meter

Width x Thickness	Colour	Item-No.
approx. 1400 x 0,9 mm	blue	110P10/B
approx. 1400 x 0,9 mm	beige	110P10/BG
approx. 1400 x 0,9 mm	brown	110P10/BR
approx. 1400 x 0,9 mm	grey	110P10/G
approx. 1400 x 0,9 mm	olive	110P10/OL
approx. 1400 x 0,9 mm	black	110P10/S
approx. 1400 x 0,9 mm	white	110P10/W

<P>Upon request, we offer artificial leather in different qualities, colours and embossments.

 Our artificial leather is flame retardant, skin-friendly, long-lasting, UV-proof, fluid-repellent and tearproof. You may use our disinfectant cleaner item 116P17 to clean the imitation leather.



## Disinfectant Cleaner for Imitation Leather

spray disinfection and detergent for surfaces, inventory and imitation leather, ready for use

PU = 1 bottle



kg	Item-No.
1000 g	116P17

# Padding Material



## Plastic Sheetting

for seat and back rest lining of wheel chairs, incontinence resistant, washable and sewable

PU = running meter

Width x Thickness	Colour	Item-No.
approx. 2500 x 0,5 mm	blue	110P17/BL
approx. 2500 x 0,5 mm	white	110P17/W
approx. 2500 x 0,5 mm	grey	110P17/GR
approx. 2500 x 0,5 mm	red	110P17/RO
approx. 2500 x 0,5 mm	black	110P17/S



## Fleece Lining Material

rear side in marble pattern

PU = running meter

Width x Thickness	Colour	Item-No.
approx. 1500 x 1 mm	brown	110P14/BR
approx. 1500 x 1 mm	blue	110P14/B
approx. 1500 x 1 mm	black	110P14/S



## Lining Cloth

### Material

- 100% polyurethane

### Area-measured material

- very soft and pliable
- basic material with coating
- smooth surface
- thickness approx. 1 mm
- tear-resistant
- breathable
- lightfast
- colourfast
- sweat resistant
- humidity resistant

PU = running meter



Width x Thickness	Colour	Weight	Item-No.
approx. 1400 x 1,3 mm	blue	460 g/sqm	110P18/B

## Lai Porellina®, embossed

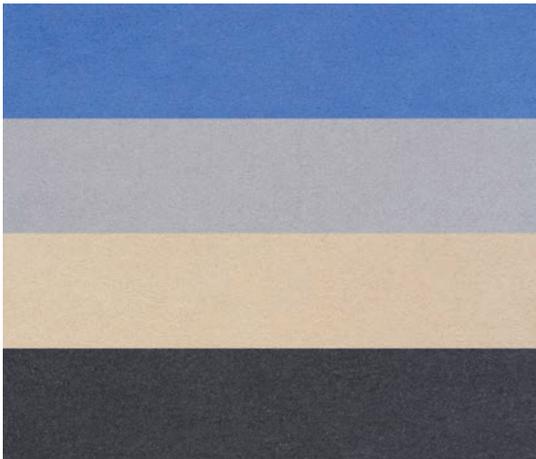


imitation leather, 51 % viscose and 49 % polyurethane, perforation optics embossing, high light fastness and abrasion resistance, non-staining

PU = 50 m per roll

Width	Colour	Item-No.
11 cm	beige	110P7/BG
11 cm	blue	110P7/B
11 cm	brown	110P7/BR
11 cm	yellow	110P7/GB
11 cm	green	110P7/GÜ
11 cm	peach	110P7/H
11 cm	orange	110P7/O
11 cm	red	110P7/R
11 cm	black	110P7/S

## Microfibre Fleece



breathable, tear resistant, colourfast

PU = running meter

Width x Thickness	Colour	Item-No.
approx. 1250 x 0,6 mm	blue	110P13/B
approx. 1250 x 0,6 mm	grey	110P13/G
approx. 1250 x 0,6 mm	peach	110P13/H
approx. 1250 x 0,6 mm	black	110P13/S

Other colours are available upon request.

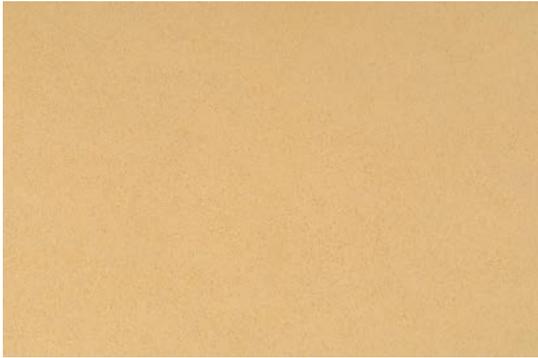
## Heel Lining „Viledon“



PU = running meter (approx. 1,5 sqm per running meter)

Width x Thickness	Colour	Item-No.
approx. 1500 x 0,7 mm	light brown	110P15

# Padding Material



## ST-Microfibre

elastic padding fabric, colour: beige

PU = running meter

Width x Thickness	Weight	Item-No.
1370 x 0,7 mm	approx. 185-235 g/sqm	110P20/BG



## Padding Felt

soft, fluffy, material approx. 60 % wool and 40 % viscose, colour: mottled grey

PU = running meter

Width x Thickness	Weight	Item-No.
approx. 1800 x 2 mm	approx. 180 g/qm	140P2
approx. 1800 x 3 mm	approx. 270 g/qm	140P3
approx. 1800 x 4 mm	approx. 350 g/qm	140P4
approx. 1800 x 5 mm	approx. 450 g/qm	140P5
approx. 1800 x 6 mm	approx. 540 g/qm	140P6
approx. 1800 x 10 mm	approx. 890 g/qm	140P10

Colour variations on mottled articles may appear due to production conditions.



Amongst others we use animal wool (sheep wool) to manufacture cushioning felt, saddle felt and quilted felt.



## Padding Felt

soft, fluffy, material approx. 66 % viscose and 34 % wool, colour: off-white

PU = running meter

Width x Thickness	Weight	Item-No.
approx. 1800 x 3 mm	approx. 420 g/qm	140P103
approx. 1800 x 8 mm	approx. 1280 g/qm	140P108



Amongst others we use animal wool (sheep wool) to manufacture cushioning felt, saddle felt and quilted felt.

## Padding Felt



soft, tight, material approx. 70 % viscose and 30 % wool, colour: off-white

PU = running meter

Width x Thickness	Weight	Item-No.
approx. 2060 x 2 mm	approx. 400 g/qm	140P302



Amongst others we use animal wool (sheep wool) to manufacture cushioning felt, saddle felt and quilted felt.

## Padding Felt



tight and sealed quality, material approx. 20 % viscose and 80 % wool, colour: mottled grey

PU = running meter

Width x Thickness	Weight	Item-No.
approx. 1800 x 3 mm	approx. 600 g/qm	141P3
approx. 1800 x 4 mm	approx. 800 g/qm	141P4
approx. 1800 x 6 mm	approx. 1200 g/qm	141P6

Colour variations on mottled articles may appear due to production conditions.



Amongst others we use animal wool (sheep wool) to manufacture cushioning felt, saddle felt and quilted felt.

## Padding Felt



tight and sealed quality, material approx. 80 % wool and 20 % viscose, colour: white

PU = running meter

Width x Thickness	Weight	Item-No.
approx. 1800 x 3 mm	approx. 600 g/qm	141P103
approx. 1800 x 5 mm	approx. 1100 g/qm	141P105



Amongst others we use animal wool (sheep wool) to manufacture cushioning felt, saddle felt and quilted felt.

# Padding Material

## Padding Felt



very tight and sealed quality, material approx. 80 % wool and 20 % viscose, colour: grey

PU = running meter

Width x Thickness	Weight	Item-No.
approx. 1600 x 4 mm	approx. 800 g/qm	141P50
approx. 1600 x 6 mm	approx. 1200 g/qm	141P51



Amongst others we use animal wool (sheep wool) to manufacture cushioning felt, saddle felt and quilted felt.

## Felt Cloth



tight, different compounds of wool and viscose dimension width x thickness = approx. 1800 x 1 mm

PU = running meter

Colour	Weight	Width x Thickness	Item-No.
blue	approx. 180 g/qm	approx. 1800 x 1 mm	142P5/B
yellow	approx. 180 g/qm	approx. 1800 x 1 mm	142P5/G
red	approx. 180 g/qm	approx. 1800 x 1 mm	142P5/R
white	approx. 220 g/qm	approx. 1800 x 1 mm	142P1
grey	approx. 220 g/qm	approx. 1800 x 1 mm	142P11
peach	approx. 220 g/qm	approx. 1800 x 1 mm	142P45
white	approx. 300 g/qm	approx. 1800 x 1,5 mm	142P7

## Felt Cloth



self-adhesive, tight, material approx. 80 % wool and 20 % viscose, colour: raw white

PU = running meter

Width x Thickness	Weight	Item-No.
1000 x 2 mm	approx. 700 g/qm	142P4/2
850 x 3 mm	approx. 800 g/qm	142P4/3

## Felt Cloth



self-adhesive, tight, material approx 35 % wool und 65 % viscose, colour: raw white

PU = running meter

Width x Thickness	Weight	Item-No.
1800 x 4 mm	approx. 560 g/qm	142P3/4

## Felt Cloth



self-adhesive, weight approx. 600 g/m<sup>2</sup>, saliva- and transpiration resistant, coloured referring to DIN 53160, colour: light-blue

PU = running meter

Width x Thickness	Item-No.
900 x 3 mm	142P6/B

## Flexokork®



elastic, easy to grind, for building arch supports and beddings, modifying lasts or changing the volume of prosthetic sockets

PU = 1 piece (0,5 sqm)

L x W x Thickness	Item-No.
1000 x 500 x 2 mm	148P4/2
1000 x 500 x 3 mm	148P4/3
1000 x 500 x 4 mm	148P4/4
1000 x 500 x 5 mm	148P4/5
1000 x 500 x 6 mm	148P4/6
1000 x 500 x 8 mm	148P4/8
1000 x 500 x 10 mm	148P4/10



The industrially used cork undergoes a technical treatment. It is not until then that it develops its characteristics such as water-repellent, elastic and flame resistant.

# Padding Material



## Multicork

modalable at approx. 130 °C, for building insoles and modifying lasts

PU = 1 piece

L x W x Thickness	Item-No.
1140 x 860 x 4 mm	148P5/4
1140 x 860 x 6 mm	148P5/6
1140 x 860 x 8 mm	148P5/8
1140 x 860 x 10 mm	148P5/10



The industrially used cork undergoes a technical treatment. It is not until then that it develops its characteristics such as water-repellent, elastic and flame resistant.



## Hard Foam

light PVC hard foam, for embedding constructions, colour: brown

PU = 1 piece (1,95 sqm)

L x W x Thickness	Item-No.
2050 x 950 x 10 mm	146P1/10
2050 x 950 x 20 mm	146P1/20
2050 x 950 x 30 mm	146P1/30
2050 x 950 x 40 mm	146P1/40
2050 x 950 x 50 mm	146P1/50
2050 x 950 x 60 mm	146P1/60



## THK-Reinforcing Material

modalable at 90-140 °C, non-irritant and resistant to transpiration, for insole- and caps reinforcements as well as reinforcements of prosthetic sockets

PU = 1 piece

L x W x Thickness	Version	Item-No.
1400 x 1000 x 1,25 - 1,35 mm	adhesive on one side	111P43
1400 x 1000 x 1,25 - 1,35 mm	adhesive on both sides	111P32



## Reinforcing Fabric

use with solvent class C, corrections possible, non flammable, for insole- and caps reinforcements as well as reinforcements of prosthetic sockets, colour: white

PU = 1 piece

L x W x Thickness	Item-No.
1400 x 1000 x 1,35 mm	111P11/15
1400 x 1000 x 3,0 mm	111P11/30

## Thermo-Flex Reinforcing Fabric



flexible, dimensionally stable, moldable at approx. 90-110° C, for insole- and caps reinforcements as well as reinforcements of prosthetic sockets, colour: white

PU = 1 piece

L x W x Thickness	Item-No.
1400 x 1000 x 0,5 mm	111P12



# Metals

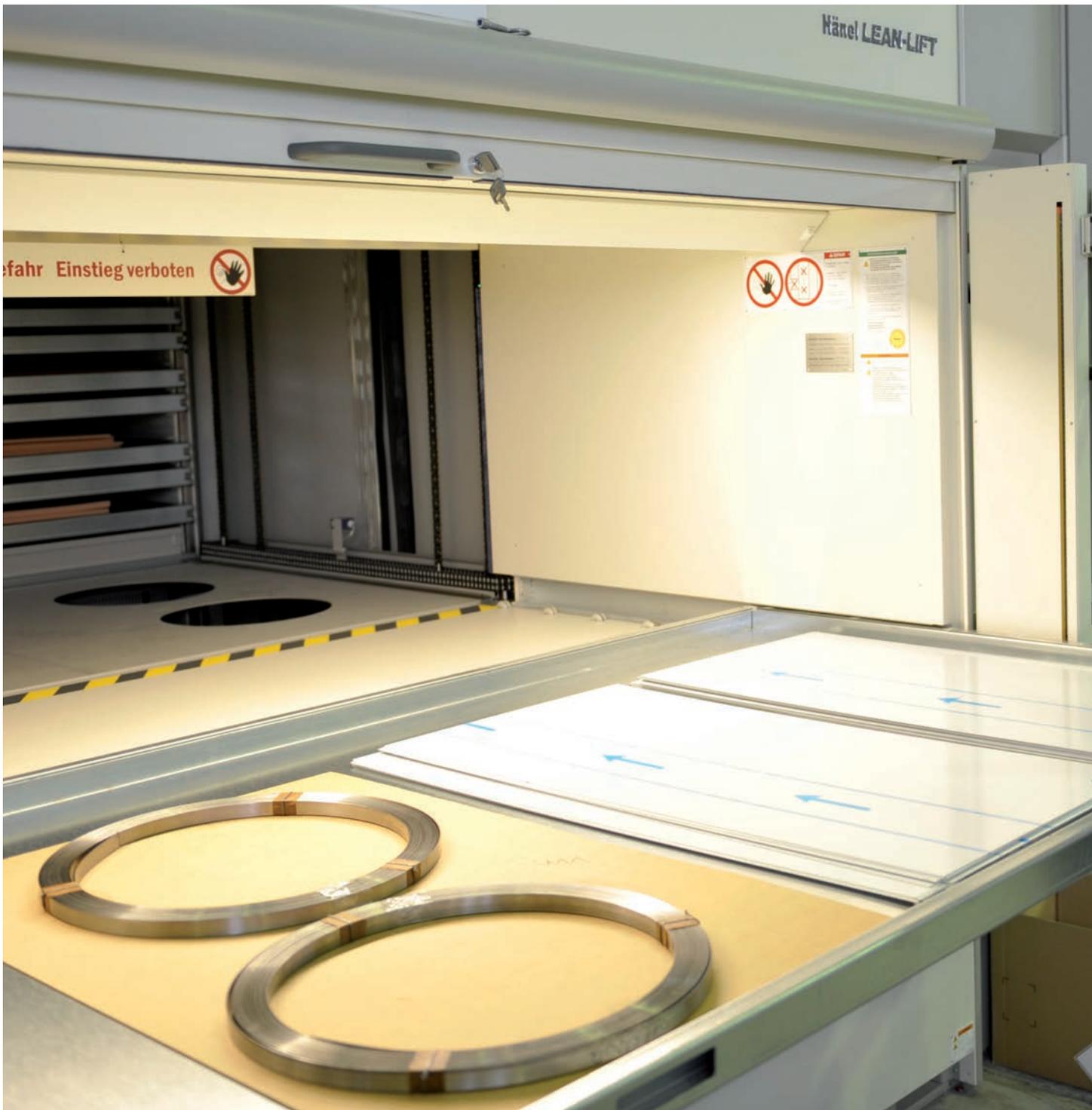


# Metals

In modern orthopaedic technology, metals are used for the manufacturing of insoles, peroneal splints, arch supports, or for a multitude of constructions which have to be welded. The decisive factors of metals are good stress characteristics and the simple way of processing.



For approx. 10,000 years man has been using metals, but only 6,000 years ago man started to manufacture metals on the basis of their compounds – the ores.



A variety of products made of steel aluminum and sheet metal are depicted on the following pages.



Metals are characterized by special hardness, tensile strength, breaking strength, thermal conductivity, electric conductivity and opacity. However, the combination and mostly insignificant admixtures of various metals confer specific and desirable properties to materials, household and professional tools and construction materials. Lightness, chemical resistance and special hardness only are some of the properties to be emphasized. Whether in the industry or in trade, the processing of metal as part of the product engineering is still omnipresent and indispensable. A classification is made according to machining such as drilling, turning, milling, grinding, sawing, die threading, engraving, punching and according to non-cutting procedures such as forging, bending, rolling, drawing, press forming, hallmarking, hammering, molding etc.

Steel:

- Characterized by its high stressability and its specific reliability
- Specific properties can be adapted by alloyage, heat treatment or by strain hardening

Aluminum:

- Characterized by its low weight
- Very resistant to corrosion
- Malleable, consistent and very reactive

Non-ferrous metals:

- such as brass sheet metal/Durana sheet metal are alloys of copper, zinc, iron, lead, etc. that are ideally suited for orthopaedic technology



## Dur-Aluminum



special orthopaedic quality, tensile strength 400 N/mm<sup>2</sup>, for insole supports as well as support splints of all kinds

L x W x Thickness	Weight kg/qm	Pu/piece	Item-No.
1000 x 500 x 1,00 mm	2,8	1,4 kg	102P1/100
1000 x 500 x 1,25 mm	3,5	1,75 kg	102P1/125
1000 x 500 x 1,50 mm	4,2	2,1 kg	102P1/150
1000 x 500 x 1,75 mm	4,9	2,45 kg	102P1/175
1000 x 500 x 2,00 mm	5,6	2,8 kg	102P1/200
1000 x 500 x 2,25 mm	6,3	3,15 kg	102P1/225
1000 x 500 x 2,50 mm	7,0	3,5 kg	102P1/250



Please mind the correct direction of rolling.

## Stainless Steel Sheet



tensile strength approx. 1000 N/mm<sup>2</sup>, for insole supports as well as support apparatus soles

L x W x Thickness	Weight kg/qm	Pu/piece	Item-No.
1000 x 500 x 1,00 mm	8,0	4 kg	100P2/100
1000 x 500 x 1,25 mm	10,0	5 kg	100P2/125
1000 x 500 x 1,50 mm	12,0	6 kg	100P2/150
1000 x 500 x 2,00 mm	16,0	8 kg	100P2/200
1000 x 500 x 2,50 mm	20,0	10 kg	100P2/250

## Brass Sheet/Durana Sheet



tensile strength approx. 440 N/mm<sup>2</sup>, for sole sheets in support orthoses

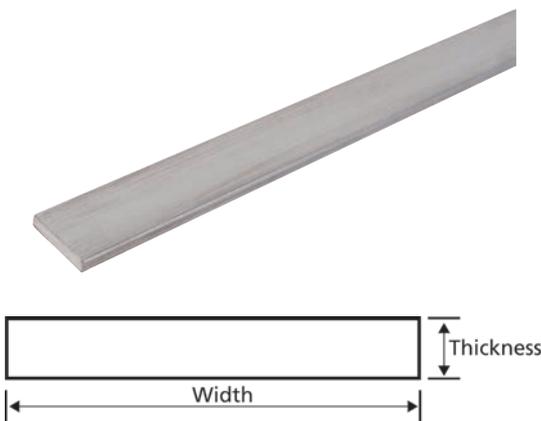
L x W x Thickness	Weight kg/qm	Pu/piece	Item-No.
1000 x 600 x 1,50 mm	12,6	7,6 kg	102P2/150
1000 x 500 x 1,75 mm	14,7	7,35 kg	102P2/175
1000 x 600 x 2,00 mm	16,8	10 kg	102P2/200
1000 x 600 x 2,25 mm	17,6	11,35 kg	102P2/225



## Steel Sheet (Black Coated)

tensile strength approx. 840 N/mm<sup>2</sup>, for Thomas-splints and ischial supports

L x W x Thickness	Weight kg/qm	Pu/piece	Item-No.
800 x 650 x 1,50 mm	12,0	6,25 kg	100P1/150
800 x 650 x 2,00 mm	16,0	8,3 kg	100P1/200

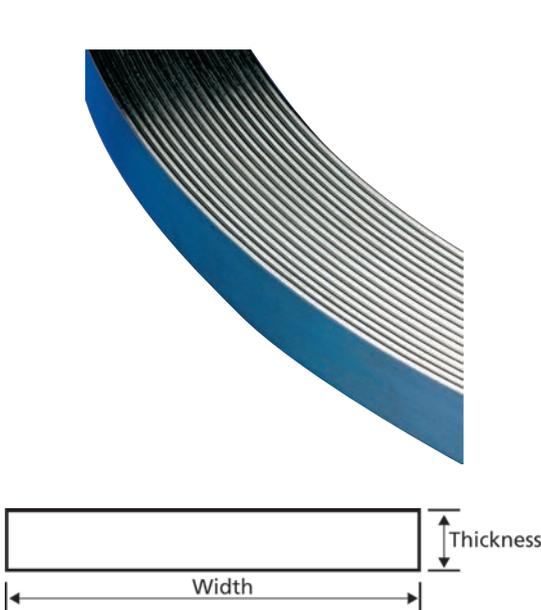


## Orthopaedic Flat Steel/Wrought Iron

for reinforcement splints and constructions

PU = 1 bar

L x W x Thickness	Weight kg/m	Item-No.
1500 x 15 x 2 mm	0,235	101P1/215
1500 x 20 x 2 mm	0,315	101P1/220
1500 x 18 x 3 mm	0,425	101P1/318
1500 x 20 x 4 mm	0,630	101P1/420



## Steel Strap

hardened, polished, with rounded edges, tensile strength approx. 1570 N/mm<sup>2</sup>, permanently elastic, Hallux Rigidus springs, Peroneal springs (ankle foot orthosis)

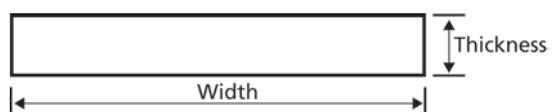
Width x Thickness	Weight kg/m	PU	Item-No.
14 x 1,1 mm	0,121	1 coil of 5-6 kg	101P5/14
15 x 1,0 mm	0,118	1 coil of 6-7 kg	101P5/15
15 x 1,5 mm	0,177	1 coil of 6-8 kg	101P5/15A
15 x 2,0 mm	0,236	1 coil of 4-7 kg	101P5/15B
20 x 1,0 mm	0,157	1 coil of 5-7 kg	101P5/20
20 x 2,0 mm	0,314	1 coil of 6-7 kg	101P5/20B

## Flat Steel -Stainless Steel-

with rounded edges, for reinforcement splints and constructions

PU = 1 bar

L x W x Thickness	Weight/piece	Item-No.
2100 x 13 x 2,5 mm	0,52 kg	101P4/2,5





# Laminating Resins



# Laminating Resins

Orthopaedic technology offers a multitude of possibilities to apply laminating resins, especially when producing fiber-reinforced components by means of the laminating technology. In a very specific way, the skilled trades benefit from materials research in aeronautical engineering and motoring technology because modern resins ensure state of the art solutions that offer a high strength and extremely low weight. Used materials:

- Acrylic resins (e. g. sealing resin item 112P15 or laminating resin 80:20 item 112P20)
- Epoxy resins (e. g. Araldit D-casting resin item 112P1 or Versamid item 112P5)
- Polyester resins (e. g. polyester resin stiff/rigid item 112P50 or flexible item 112P51)



Please pay attention to sufficient air ventilation or respectively exhaust extraction when processing laminating resins. Personal protective equipment (PPE) should be obligatory.

Acrylic and epoxy resins are especially suited for laminating with carbon fiber materials because of their excellent wetting characteristics. Epoxy resin, however, is more demanding during processing than acrylic resin. Polyester resins on the other hand are more often used for aircraft construction and boatbuilding and are primarily impressive because of their very reasonable price.

Please pay attention to the safety data sheets of our laminating resins. You can download the data sheets directly from our webpage or you can request them by contacting us at any time.



High-quality acrylic resins are characterised by:

- Very good wettability and rinsing of the individual filament fibers
- No cold-curing shrinkage
- Resistance to aging
- Thermoplastic properties of the cured components (provided that the arrangement of the reinforcements allow these properties)
- Cutaneous tolerance
- Simplifies the processing by a controllable reaction sequence via addition of hardener

# Laminating Resins

## Characteristics and processing of acrylic-, polyester- and epoxy resins

	Acrylic resins	Polyester resins	Epoxy resins
Mixability solid/flexible	Yes, but only acrylic resins among themselves	Yes, but only Streifeneder polyester resins among themselves	Yes, but only Streifeneder epoxy resins among themselves
Curing	For all acrylic resins. add 1-3 % of hardening agent in powder or pasty form. The amount of hardener influences the reaction rate	For polyester resins solid add only hardener, for polyester resins flexible accelerator and hardener are required	Epoxy resins solid or flexible: thoroughly mix with hardener or quick-curing agent. The duration until the curing is completed may vary and may need up to several months in exceptional cases.
Solidity	Resistant to aging, depending on type glasshard, hard or soft	Moderate, embrittlement when older	High, resistant to aging
Thermoplastics	Yes	No, thermoformable plastics	No, thermoformable plastics
Decrease in reaction	No	High	Low
Solvent-resistant	Good	Good	Very good
Dimensional control	The harder the formulation, the higher the dimensional control	Yes, also at higher temperatures	Yes, also at higher temperatures
Field of application	Any type of prostheses and orthoses	Any type of prostheses and orthoses	Any type of prostheses and orthoses
Others	Siegelharz is the archetype of all acrylic resins: 80:20 = 80 % Siegelharz and 20 % of resin thinner. Very good bonding with many materials	Cheap alternative to expensive resins	Very good bonding with many metals and plastics, very good wetting of the individual filament fibers
Exact mixing ratio	Acrylic resins forgive minor inaccuracies	Inaccuracies will hardly be forgiven	Inaccuracies will hardly be forgiven
Further products	Acrylic spatula and Siegelharz compact adhesive		

### Processing recommendations:

- Use clean mixing goblets and wooden spatulas
- Dye paste must be added prior to hardening agent powder and accelerator
- Always stir in dye paste thoroughly. The colour "black" will affect the physical characteristics.
- After mixing the individual compounds let the mixture rest for a short time – only by doing this the result will be a bubble-free component
- Curing will start at those locations having the highest resin concentration
- To isolate the positive model we recommend the use of PVA film
- For epoxy resin please use PVC film
- Too much hardening agent in acrylic resins reduces the flow characteristics of pre-formulated resins
- A curing process, which has been initiated too rapidly, may result in a poor wetting of the fibers and subsequently in non-cured sectors (so-called islands)

Mixing proportion always in ratio of the weight

Siegelharz	Laminating resin 80:20	Laminating resin C	Casting resin 103 E
100 parts of resin	100 parts of resin	100 parts of resin	100 parts of resin
1-3 parts of hardener	1-3 parts of hardener	1-3 parts of hardener	1-3 parts of hardener
Add 2-3 % of dye paste max. if required			

Polyester flexibel	Polyester stiff/rigid
100 parts of resin	100 parts of resin
3 parts of curing agent powder	3 parts of curing agent powder
1 part of accelerator	
Add 1-2 % of dye paste max. if required	

EP resin solid/flexible (Araldite D casting resin)	
100 parts of resin	100 parts of resin
20 parts of curing agent	20 parts of quick-curing agent
Curing after approx. 5 hours	Curing after approx. 2 hours
Add 1-2 % of dye paste max. if required	

EP resin stiff/rigid (Versamid casting resin)	
40 parts of Versamid casting resin	40 parts of Versamid casting resin
60 parts of Versamid D casting resin	60 parts of Versamid D casting resin
10 parts of curing agent	10 parts of quick-curing agent
Curing after approx. 5 hours	Curing after approx. 2 hours
Add 1-2 % of dye paste max. if required	

 The mixing ratios of epoxy resins (EP resins) must always be strictly adhered to!



#### Impacts on the reaction times by:

- Mixing of both polyester resins stiff/rigid respectively flexible
- Mixing of various acrylic resins
- Thickness of reinforcement (consider modification of amount of hardening agent especially when using polyester)
- Room temperature too high (exceeding 25 °C)
- Room temperature too low (below 15 °C)
- Use of carbon fiber materials
- The mixed amount of polyester resin is less than 100 g
- Too much or not enough hardening powder
- Admixture of dye paste

Atmospheric oxygen impairs the reaction. Surfaces, which have had contact with the air, will remain tacky. This can be prevented by plastic film covers or tear-off fabrics.

Black dye paste has negative impacts on curing because of the high soot share.

Laminates made of acrylic resin are thermoformable (depending on the fabric used). Laminates made of EP resins are not thermoplastic.

Acrylic resins may only be post-formulated by using 10-15 % thinner max.





## Streifeneder Lamination Resin

for rigid laminates, 80% monomers (resin) and 20% polymers (thinner), thin fluid, easy to handle, fast results, own-brand Streifeneder



kg	Item-No.
0,900	112P120/1
4,900	112P120/5
25,000	112P120/25



Use this item only together with our hardeners and pigment pastes.



## Degaplast® Lamination Resin 80:20

for rigid laminates, 80% monomers (resin) and 20% polymers (thinner), branded product



kg	Item-No.
0,900	112P20/1
4,600	112P20/5
25,000	112P20/25



Use this item only together with our hardeners and pigment pastes.



## Streifeneder Lamination Resin, flexible

for flexible laminates, own-brand Streifeneder



kg	Item-No.
0,900	112P114/1
4,900	112P114/5
25,000	112P114/25



Use this item only together with our hardeners and pigment pastes.

# Laminating Resins



## Degaplast® Lamination Resin 103E

flexible, for flexible laminates, branded product



kg	Item-No.
0,900	112P14/1
4,600	112P14/5
25,000	112P14/25



Use this item only together with our hardeners and pigment pastes.



## Streifeneder Lamination Resin C

for carbon-fibre technique, own-brand Streifeneder



kg	Item-No.
0,900	112P122/1
4,900	112P122/5
25,000	112P122/25



Use this item only together with our hardeners and pigment pastes.



## Degaplast® Lamination Resin C

for carbon-fibre technique, branded product



kg	Item-No.
0,900	112P22/1
4,600	112P22/5
25,000	112P22/25



Use this item only together with our hardeners and pigment pastes.



## Streifeneder Sealing Resin

for sealing, reinforcing and bonding, own-brand Streifeneder



kg	Item-No.
0,900	112P115/1
4,900	112P115/5
25,000	112P115/25



Use this item only together with our hardeners and pigment pastes.



## Degaplast® Sealing Resin

for sealing, reinforcing and bonding, branded product



kg	Item-No.
0,900	112P15/1
4,600	112P15/5
25,000	112P15/25



Use this item only together with our hardeners and pigment pastes.



## Atlas® Thinner for Acrylic Resins

for Streifeneder- and Degaplast®-resins



kg	Item-No.
0,800	112P13/1

# Laminating Resins



## EpoxiPure Laminating Resin

for stable and thin-walled C-fibre constructions, laminatable and solvent-free  
**Mixing ratio**

100 parts EpoxiPure laminating resin Item-No. 112P80 parts  
EpoxiPure hardener Item-No. 112P81



kg	Item-No.
1,0	112P80/1
5,0	112P80/5



Optimal results are achieved as follows:

- vacuum for min. 10 hours = demouldable
- pre-tempering at 60°C / 140°F for 1 hour = grindable
- final tempering at 100°C / 212°F for 1 hour = final strength



## EpoxiPure Hardener

liquid hardener for EpoxiPure laminating resin Item-No. 112P80



kg	Bestell-Nr.
0,4	112P81/04
2,0	112P81/2



## Lamination Resin Araldit D

for rigid and light laminates



### Mixing ratio for rigid laminates

100 parts resin item 112P120 parts hardener (HY 956) item 112P2/1 or hardener (HY 2958) item 112P113 parts pigment paste item 112P36

kg	Item-No.
1,0	112P1/1
5,0	112P1/5



Please use PVC flexible film item 110P4 for insulation to positive cast as well as film casting.



## Araldit (HY 956)

liquid hardener for „Araldit“ lamination resin



kg	Item-No.
1,0	112P2/1



## Araldit Fast Setting Hardener (HY 2958)

liquid hardener for lamination resin „Araldit“



kg	Item-No.
1,0	112P11

# Laminating Resins



## Bonding Agent Araldit AV 121N

for bonding and laminating



### Mixing ratio

100 parts Araldit bonding agent item 112P3/1  
10 parts Araldit fast setting hardener item 112P11

kg	Item-No.
1,0	112P3/1



Please use PVC flexible film item 110P4 for insulation to positive cast as well as film casting.



## Versamid

softening agent for lamination resin „Araldit“, for flexible laminates



### Mixing ratio for flexible laminates

60 parts lamination resin „Araldit“ item 112P1  
40 parts Versamid item 112P5  
10 parts hardener (HY 956) item 112P2/1 or fast setting hardener (HY 2958) item 112P11  
3 parts pigment paste item 112P36

kg	Item-No.
1,0	112P5/1
2,5	112P5/025



Please use PVC flexible film item 110P4 for insulation to positive cast as well as film casting.



## Polyester Resin, Firm

for rigid laminates



### Mixing ratio

100 parts lamination resin : 3 parts hardener powder

kg	Item-No.
1,0	112P50/1
5,0	112P50/5



## Polyester Resin, Soft

for flexible laminates



### Mixing ratio

100 parts lamination resin

3 parts hardener powder item 112P55/50 or 112P33

1 part accelerator item 112P55

kg	Item-No.
1,0	112P51/1
5,0	112P51/5



## Accelerator

for flexible laminates made of polyester laminates



Liter	Item-No.
0,050	112P55



## Hardener Powder for Polyester Laminates

only for polyester laminates



kg	Item-No.
0,5	112P55/50



## Hardener Paste

for Degaplast® resins, Streifeneder acrylic resins, sealing resin compact glue and light putty



kg	Item-No.
0,050	112P17

# Laminating Resins



## Hardener Powder

for Degaplast® resins, Streifeneder acrylic resins, sealing resin compact glue and light putty



kg	Item-No.
0,030	112P33/03
0,150	112P33/15
0,500	112P33/50

## Microballoon

filler material for lamination resins



kg	Colour	Item-No.
1,0	white	112P40/1

## Glass Fibre Filler Material

densifyer for sealing resin, can be used in combination with sealing resin as filler for metal parts like 3-, or 4-prawn ancors

### Mixing ratio

max. 50 g filler item 112P41

50 g sealing resin item 112P15

3% hardener paste item 112P33 or 112P17



kg	Item-No.
1,0	112P41/1



The higher the content of fibres of item 112P41, the denser the spackle.



## Pigment Paste

for acrylic- and polyester resins



kg	Farbe	Item-No.
0,250	peach	112P36/H25
1,000	peach	112P36/H1
0,250	white	112P36/W25
0,250	yellow	112P36/G25
0,250	blue	112P36/B25
0,250	red	112P36/R25
0,250	black	112P36/S25
0,250	brown	112P36/BR



## Streifeneder Light Putty

add 3% hardener 112P17 or 112P33, recommended for circumference reduction of wooden and plastic sockets, colourable with colour paste, good grinding abilities



kg	Item-No.
1,000	112P35/1



## Glass Fibre Putty

based on polyester, incl. spatula and hardener paste (40 g)



kg	Item-No.
1,3	112P31

# Laminating Resins



## Acrylic-Putty

add 3% hardener item 112P17 or 112P33, to set joints in plastic and wood sockets



kg	Item-No.
1,000	112P39



## High Performance Maintenance Spray

lubricates, cleans, penetrates and displaces moisture, protects against corrosion



Net content	Item-No.
500 ml	117P22

## Multipurpose Grease

for high strain, water resistant, acid free, range of application from -30° C to +120° C

PU = 1 tin



kg	Item-No.
1,0	60C50



## Silicone Parting Agent Spray

Net content	Item-No.
400 ml	116P11





## Multi Purpose Lubricant Spray



- eliminates squealing noises
- blocks humidity
- cleans and protects
- unfastens rusted parts
- unfastens tight mechanical parts

Net content	Item-No.
250 ml	117P20/25



## Spray-On Adhesive



suitable for all materials and reinforcement tasks with carbon or glass fiber

Setting time: 10-50 minutes  
Drying time: 10 minutes

Net content	Item-No.
500 ml	118P28



## PTFE Spray



dry, clean and non-greasy lubricant

PU = 1 tin

Net content	Item-No.
400 ml	119P24

# Laminating Resins



## Talcum Powder

mineral sliding and release agent

kg	Item-No.
1,0	113P6



## Wooden Spatula

PU = 100 pcs

Length x width x thickness	Item-No.
255 x 16 x 3,5 mm	164P9



## Measuring Cup

made of polypropylene, with calibration

PU = 20 pcs and 100 pcs

Liter	Item-No.
0,200	164P6/180
0,400	164P6/500



## Vulkollan Elastic Strap

including fastening button (brass) 119P31

Length x Width	Item-No.
500 x 15 mm	119P30



## Fastening Button

brass, for Vulkollan Elastic Strap 119P30

	Item-No.
	119P31



## Perlon Stockinette

to reinforce resin laminates, colour: white

Width	Pu/kg	Length per roll	Item-No.
20 mm	1,0	186,0 m	95P6/2
30 mm	1,0	160,0 m	95P6/3
40 mm	0,5	45,4 m	95P6/4
60 mm	0,5	27,7 m	95P6/6
80 mm	0,5	20,8 m	95P6/8
100 mm	1,0	37,0 m	95P6/10
120 mm	1,0	33,3 m	95P6/12
150 mm	1,0	27,0 m	95P6/15
180 mm	1,0	22,7 m	95P6/18
200 mm	1,0	20,0 m	95P6/20
250 mm	1,0	13,5 m	95P6/25
300 mm	1,0	11,1 m	95P6/30
350 mm	1,0	9,5 m	95P6/35
400 mm	1,0	8,8 m	95P6/40

# Laminating Resins

## Polyester Stockinette

to reinforce resin laminates, colour: white



Width	Pu/kg	Length per roll	Item-No.
60 mm	0,5	24,5 m	95P16/6
80 mm	0,5	18,0 m	95P16/8
100 mm	1,0	31,5 m	95P16/10
120 mm	1,0	27,5 m	95P16/12
150 mm	1,0	23,3 m	95P16/15
200 mm	1,0	17,5 m	95P16/20
250 mm	1,0	12,8 m	95P16/25
300 mm	1,0	10,2 m	95P16/30

## Cotton Stockinette

colour: off-white



Width	Pu/kg	Length per roll	Item-No.
40 mm	0,5	32,0 m	95P11/4
60 mm	0,5	23,8 m	95P11/6
80 mm	0,5	17,2 m	95P11/8
100 mm	1,0	27,7 m	95P11/10
120 mm	1,0	25,6 m	95P11/12
150 mm	1,0	19,2 m	95P11/15
180 mm	1,0	17,2 m	95P11/18
200 mm	1,0	14,9 m	95P11/20
250 mm	1,0	12,5 m	95P11/25
300 mm	1,0	10,0 m	95P11/30
350 mm	1,0	8,9 m	95P11/35
400 mm	1,0	7,7 m	95P11/40

## Cotton Stockinette



colour: white/bleached, very elastic, for humidity absorption

Width	Pu/kg	Length per roll	Item-No.
40 mm	0,5	32,0 m	95P3/4
60 mm	0,5	23,8 m	95P3/6
80 mm	0,5	17,2 m	95P3/8
100 mm	1,0	27,7 m	95P3/10
120 mm	1,0	25,6 m	95P3/12
150 mm	1,0	19,2 m	95P3/15
200 mm	1,0	14,9 m	95P3/20
250 mm	1,0	12,5 m	95P3/25
300 mm	1,0	10,0 m	95P3/30
350 mm	1,0	8,9 m	95P3/35
400 mm	1,0	7,7 m	95P3/40

## Cotton Stockinette



colour: peach

Width	Pu/kg	Length per roll	Item-No.
60 mm	1,0	47,6 m	95P15/6
80 mm	1,0	34,4 m	95P15/8
100 mm	1,0	27,7 m	95P15/10
120 mm	1,0	25,6 m	95P15/12
150 mm	1,0	19,2 m	95P15/15

## Elastic Stockinette



good elasticity, colour: white

Width	Pu/kg	Length per roll / size	Item-No.
80 - 90 mm	0,5	38,4 m / Size A	95P12/A
110 - 120 mm	1,0	41,6 m / Size B	95P12/B
140 - 150 mm	1,0	32,2 m / Size C	95P12/C
200 - 210 mm	1,0	23,8 m / Size D	95P12/D

# Laminating Resins

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## Elastic Stockinette



Helanca, good elasticity, colour: peach

Width	Pu/kg	Length per roll / size	Item-No.
80 - 90 mm	0,5	38,4 m / Size A	95P13/A
110 - 120 mm	1,0	41,6 m / Size B	95P13/B
140 - 150 mm	1,0	32,2 m / Size C	95P13/C
200 - 210 mm	1,0	23,8 m / Size D	95P13/D

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## Fibreglass Stockinette



very elastic, colour: white

Width	Length per roll / size	Item-No.
70 - 80 mm	39,5 m / Size E	95P14/E
90 - 100 mm	35,7 m / Size A	95P14/A
130 - 140 mm	27,0 m / Size B	95P14/B
150 - 160 mm	21,3 m / Size C	95P14/C
200 - 220 mm	14,3 m / Size D	95P14/D

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## Nylon Stockinette, very expandable



100 % polyamide, recommended for thermoplastic deep drawing works, the vacuum stocking helps to work out undercuts during vacuum forming

PU = 10 m roll

Width	Item-No.
5 - 20 cm	95P1/5
10 - 40 cm	95P1/10



## Nylon Stockinette, extremely expandable

100 % polyamide, recommended for thermoplastic deep drawing works, the vacuum stocking helps to work out undercuts during vacuum forming

PU = 23 m roll

Width	Item-No.
5 - 66 cm	95P2/5
10 - 142 cm	95P2/10



## Polyglass Stockinette

polyester and fibreglass blend for resin laminates

Width	Pu/kg	Length per roll	Item-No.
40 mm	0,5	34,9 m	95P17/4
60 mm	0,5	30,0 m	95P17/6
80 mm	1,0	34,0 m	95P17/8
100 mm	1,0	30,9 m	95P17/10
120 mm	1,0	25,1 m	95P17/12
150 mm	1,0	22,6 m	95P17/15
200 mm	1,0	17,3 m	95P17/20
250 mm	1,0	14,5 m	95P17/25
300 mm	1,0	11,0 m	95P17/30



## Fibreglass Stockinette

type „Bufa“, coarse meshed, highly elastic, for casting resin reinforcements

PU = 1 kg

Width	Length per roll	Item-No.
60 mm	28,5 m	95P4/6
80 mm	17,2 m	95P4/8
100 mm	15,6 m	95P4/10
120 mm	12,5 m	95P4/12
150 mm	9,3 m	95P4/15
180 mm	7,9 m	95P4/18
200 mm	7,2 m	95P4/20
250 mm	5,2 m	95P4/25
300 mm	4,8 m	95P4/30

# Laminating Resins



## Elastic Stockinette

for silicone reinforcements, colour: white

Width	Pu/kg	Length per roll	Item-No.
60 mm	0,5	50,0 m	95P19/6
80 mm	1,0	50,0 m	95P19/8
100 mm	1,0	77,0 m	95P19/10
120 mm	1,0	50,0 m	95P19/12
150 mm	1,0	43,5 m	95P19/15

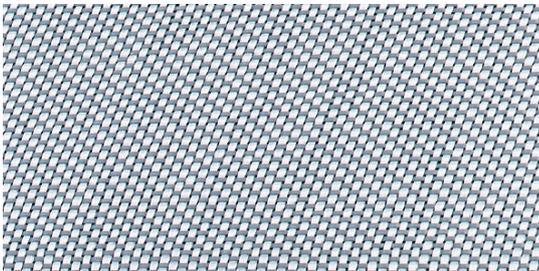


## Fibreglass Webbing

plain weave, for casting resin reinforcements, colour: white

PU = 100 meters per roll

Width	Weight	Item-No.
50 mm	225 g/qm	95P25/50
100 mm	225 g/qm	95P25/100



## Fibreglass Webbing

plain weave, for casting resin reinforcements, colour: white

PU = per running meter

Width	Weight	Item-No.
1000 mm	200 g/qm	95P26



## Fibreglass Webbing-Combo

combined fibreglass in plain weave, to reinforce resin laminates, colour: white

PU = per running meter

Width	Weight	Item-No.
1300 mm	1250 g/qm	95P27

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## Dacron Felt



100% polyester, filling material, for reinforcements, in case of undercuts, colour: white

PU = per running meter

Width x Thickness	Weight	Item-No.
930 x 3 mm	190 g/qm	140P41

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## Lamination Resin Felt



for synthetic stiff bandages

PU = running meter

Width x Thickness	Weight	Item-No.
2000 x 20 mm	250 g/qm	140P40

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## Woven Fibreglass Stockinette

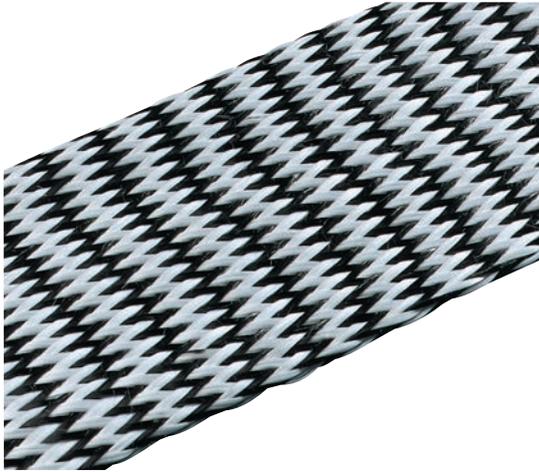


for the manufacturing of thin walled but very rigid resin laminates

PU = 1 kg (= 1 roll)

Width	Length per roll	Item-No.
60 mm	12,5 m	95P23/60
80 mm	8,0 m	95P23/80
100 mm	7,0 m	95P23/100

# Laminating Resins

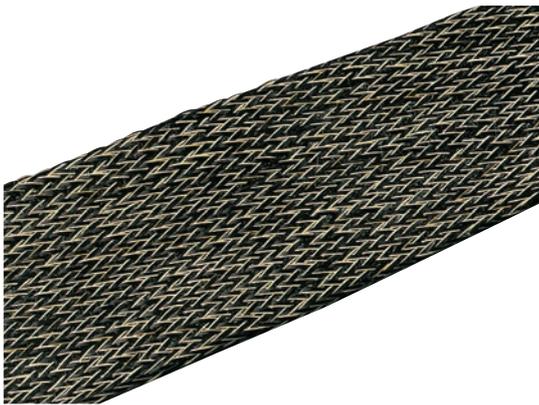


## Carbon Fibreglass Stockinette

for thin walled and very rigid resin laminates

PU = 10 meters

Width	Item-No.
80 mm	95P30/80
100 mm	95P30/100



## Woven Carbon-Kevlar® Stockinette

for thin walled and very rigid light weight resin laminates

PU = 10 meters

Width	Item-No.
80 mm	95P31/80
100 mm	95P31/100



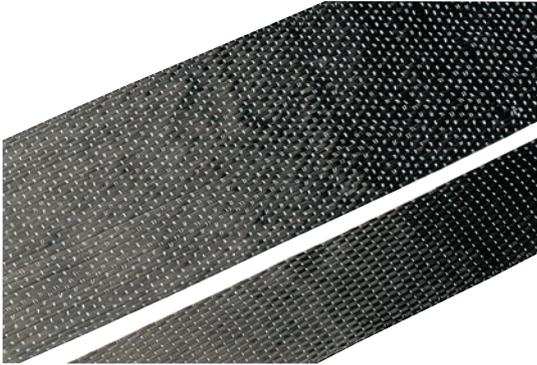
## Carbon Fibre Stockinette

for manufacturing of rigid resin laminated sockets, for reinforcement of the condylus area and connecting parts with low weight

PU = 10 meters

Width	Item-No.
20 mm	95P9/20
80 mm	95P9/80
100 mm	95P9/100
150 mm	95P9/150
200 mm	95P9/200

## Carbon Fibre Webbing



uni directionally woven with a cotton trimming, for reinforcing laminates in axial as well as circular direction

PU = 50 meters per roll

Width	Item-No.
25 mm	95P28
45 mm	95P8
100 mm	95P18

## Carbon Fibre Thread



for sewing of carbon fibre profiles in carbon fibre orthoses

PU = 15 meters per roll

Width	Item-No.
2 mm	250P14

## Carbon Fibre Matting



for very rigid two-dimensional lamination reinforcements in twill weave, 250 g/m<sup>2</sup>

PU = per running meter

Width	Item-No.
1000 mm	95P10

## Carbon-UD-Stockinette



unidirectionally woven carbonfibre elastic stockinette, approx. 20 - 50 mm stretchable, for conical or undulated models, suitable for axial-reinforcements PU = 5 m

Width	Elastic	Item-No.
20 mm	20 - 50 mm	95P7/20
40 mm	40 - 90 mm	95P7/40
70 mm	70 - 150 mm	95P7/70
100 mm	100 - 250 mm	95P7/100
150 mm	150 - 325 mm	95P7/150

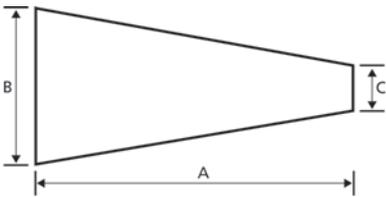
# Laminating Resins

## PVA Lamination Bag „Special“

0,1 mm thickness, extremely sturdy, for processing of acrylic-, polyester resin casts and pre-preg

Size B + C = half circumference

PU = 10 pcs



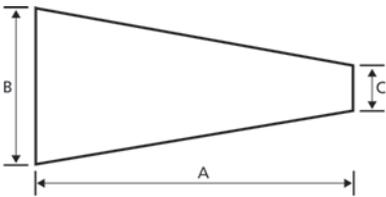
Dimensions A x B x C	Description	Item-No.
560 x 110 x 40 mm	PVA Bag Size AR	119P9/AR
670 x 270 x 120 mm	PVA Bag Size O	119P9/O
680 x 190 x 70 mm	PVA Bag Size W	119P9/W
1000 x 220 x 70 mm	PVA Bag Size U	119P9/U
1360 x 260 x 50 mm	PVA Bag Size OU	119P9/OU

## PVA Lamination Bag

thickness of material 0,08 mm, for processing of acrylic- and polyester resin casts

Size B + C = half circumference

PU = 10 pcs



Dimensions A x B x C	Use	Item-No.
600 x 110 x 40 mm	Arm prostheses	119P3/1
700 x 190 x 50 mm	Soft sockets	119P3/2
700 x 270 x 50 mm	AK prostheses	119P3/3
1000 x 190 x 50 mm	BK prostheses	119P3/4
1000 x 260 x 50 mm	AK prostheses	119P3/5
1300 x 220 x 50 mm	BK prostheses	119P3/6
1300 x 260 x 50 mm	AK prostheses	119P3/7
1300 x 190 x 50 mm	BK prostheses	119P3/8
1300 x 360 x 50 mm	AK prostheses	119P3/9

## PVA Film



for processing of acrylic- and polyester resin casts, rolled, water soluble

Width x Thickness	PU	Item-No.
770 x 0,08 mm	1 meter	110P9/1
1000 x 0,08 mm	1 meter	110P6/1
1300 x 0,08 mm	1 meter	110P8/1
770 x 0,08 mm	30 meters	110P9/30
1000 x 0,08 mm	30 meters	110P6/30
1300 x 0,08 mm	30 meters	110P8/30

## Shrink Foil



for insulation of moist plaster models, the indicated sizes relate to the web width/circumference

PU = 20 pieces per roll

Size	Distal	Proximal	Item-No.
Medium	20 / 40 cm	30 / 60 cm	119P5/M
Large	23 / 46 cm	37 / 74 cm	119P5/L
X-Large	26 / 52 cm	48 / 96 cm	119P5/XL

## PVC Film



soft-PVC, for resin lamination casts with Araldit

PU = per running meter or 200 meters per roll

Width x Thickness	Item-No.
1400 x 0,12 mm	110P4

## Filler Sleeve



polyethylene, transparent

PU = 25 meters per roll

Width	Item-No.
60 mm	119P10

# Laminating Resins



## PTFE Tape

for bonding of PVA film, fibreglass webbing coated with PTFE

PU = 2 meters

Width	Item-No.
100 x 0,13 mm	119P22

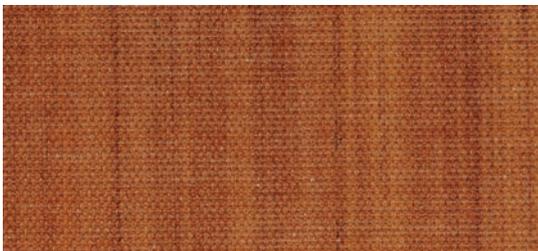


## PTFE Film

fibreglass webbing coated with PTFE; for flat bed oven

PU = per running meter

Width x Thickness	Version	Item-No.
1100 x 0,13 mm	non air permeable	119P11
1150 x 0,20 mm	air permeable	119P23



## PTFE Film

fibreglass webbing coated with PTFE, ideally suitable for infrared oven

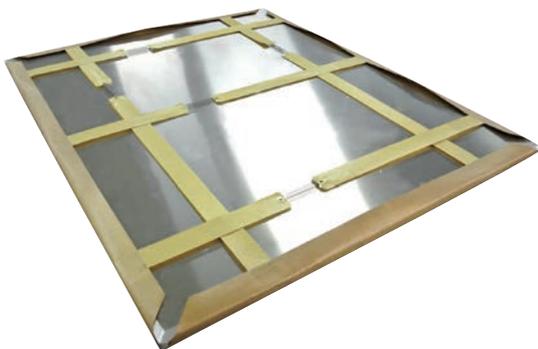
PU = per running meter

Width x Thickness	Version	Colour	Item-No.
1525 x 0,35 mm	non air permeable	beige	119P18



## PTFE-Foil, porous, for Infrared-Oven

- PTFE-Foil, porous
- suitable for items 50M12, 50M13, 50M14 and 50M15
- thickness: 0,2 mm
- complete with fastening straps and springs



suitable for item	Item-No.
51M12	50M12/E1
51M13	50M13/E1
51M14	50M14/E1
51M15	50M15/E1



## Coroplast Adhesive Tape

transparent, for sealing of damaged PVC bags

Width	PU	Item-No.
38 mm	25 meters	119P12
50 mm	10 meters	119P12/50



## Polyethylene Adhesive Tape

transparent, for sealing of damaged PVC bags, non dissoluble

PU = 50 meters per roll

Width	Item-No.
25 mm	119P20



## PE-Adhesive Tape „3M“

transparent, non dissoluble

PU = 33 m per roll

Width	Item-No.
25 mm	119P21



## Double Sided PVC Adhesive Tape

transparent, for bonding on carbon fibre matts

PU = 50 meters per roll

Width	Item-No.
6 mm	119P13/6
19 mm	119P13

# Laminating Resins



## Masking Tape

PU = 50 meters per roll

Width	Item-No.
25 mm	119P6



## Linen Adhesive Tape

self-adhesive

PU = 50 meters per roll

Width	Item-No.
19 mm	119P14/19
25 mm	119P14/25
50 mm	119P14



## Adhesive Tape

double-sided, self-adhesive

PU = 25 meters per roll

Width	Item-No.
60 mm	119P15



## Plastic Tying Tape

adhesive on one side, reinforced with „Perlon“-fibres

PU = 50 meters per roll

Width	Item-No.
19 mm	119P16



## Foamed Layer Adhesive Tape

PU = 10 meters per roll

Length x Width	Item-No.
19 x 4 mm	119P17/19
25 x 4 mm	119P17/25
50 x 4 mm	119P17/50



## „Vulkollan“ Elastic Strap

for sealing purposes, made out of polyurethane

PU = 4 meters per roll

Width	Item-No.
15 mm	119P25



## Plasticine Clay

PU = 0,5 kg

kg	Item-No.
0,5	113P7



## Sealing Grease (Stickwax)

- for tight sealing during the lamination process of locking systems
- highly temperature resistant

PU = 1 tin

Tin	Item-No.
5 ml	22A100

# Laminating Resins



## Carbon Fibre Orthoses Kit

for rigid and light weight orthoses, fabricated with resin casting process

### Consisting of

- 3 pcs. carbon fibre sheets: 30 x 30 cm
- 8 pcs. carbon fibre webbings: 4,5 x 50 cm
- 8 pcs. carbon fibre webbings: 4,5 x 25 cm
- 4 pcs. carbon fibre webbings: 4,5 x 15 cm
- 8 pcs. carbon fibre stockinettes: 2 x 50 cm
- 8 pcs. carbon fibre stockinettes: 2 x 25 cm
- 4 pcs. carbon fibre stockinettes: 2 x 15 cm
- 3 pcs. needle bars: 0,3 x 30 cm
- 1 pc. carbon fibre thread: 15 m
- 1 pc. saddler's needle
- 1 pc. colourfoam (PE Foam): 0,3 x 100 x 50 cm
- 4 pcs. PVC splints: 0,3 x 1,6 x 100 cm
- 1 pc. perlon stockinette: 2 x 40 cm
- 1 pc. processing instruction

	Item-No.
	250P1



## Replacement PVC Profile Splints

PU = set of 3 pcs

L x W x Thickness	Item-No.
1000 x 16 x 3,0 mm	250P11

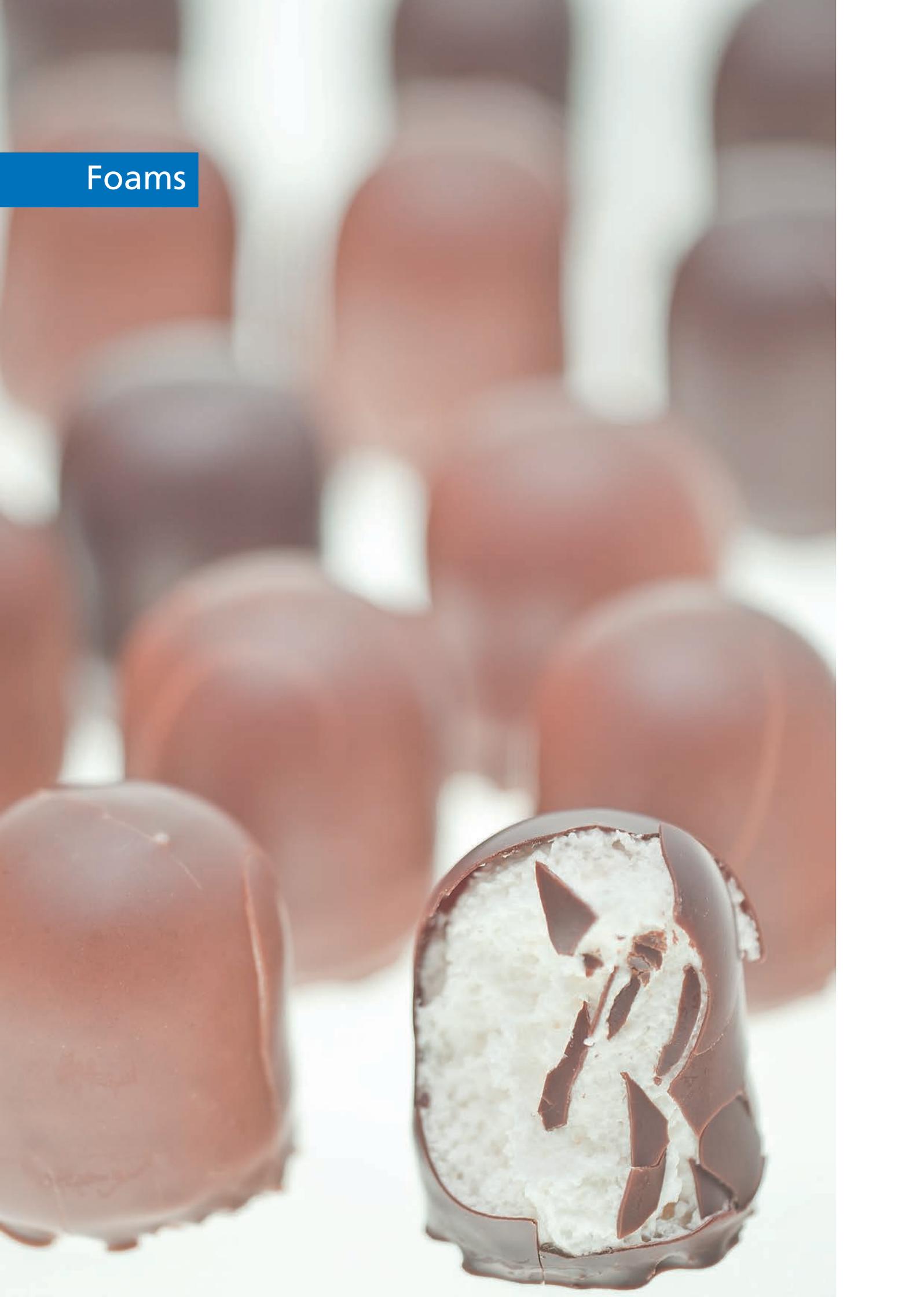


## Needle Bar

PU = set of 3 pcs

Diameter x Length	Item-No.
3 mm x 300 mm	250P18

# Foams



# Foams

Polyurethane foams (PUR foams) are a very versatile material that is used in all areas of modern orthopaedic technology.

One distinguishes between rigid cellular material (rigid polyurethane foam) and flexible cellular material (soft-elastic foam). While soft-elastic foam materials are primarily used in the area of body cushioning, e. g. for cushion pans or orthopaedic shoe technology, rigid foams are especially suitable for small and high-load parts of the orthopaedic and orthopaedic shoe technology range (e. g. length difference compensations) or for positive forms ranging from casting (copying) to spacers and prosthetic sockets to the construction of lasts.

The advantages of this versatile material are obvious:

- Rapid, uncomplicated and safe processing
- Rigid cellular material: high mechanical loads and exact forming with simultaneous shape stability
- Good cutaneous tolerance in the cured state
- Simple mechanical processing
- Reasonable prices
- Low weight

To manufacture PUR foams two liquid components (foam and hardener) are mixed in a well defined quantity ratio using the hand stirring method. The hardness of the cured PUR foam depends on the foam components used. The higher the code number of the foam component (e. g. H 300 or H 700 for rigid cellular material or W 150 or W 300 for flexible foam), the higher the strength and therefore the density (weight in kg per cubic meter) of the final product.



### Characteristics:

The following rule is suitable for a rough estimation of the foaming characteristics: Volume depends on density, i. e. the lower the density, the larger the volume and vice versa. If the degrees of hardness are to be modified individually, it is possible to mix the component A of a specific hardness with the component A of a different hardness. It is important that the chemical composition as well as the hardener used remain the same!

### Storage:

Store at room temperature (rather a little too warm than too cold). The liquid components are extremely sensitive to cold. The components should not be stored at temperatures below 15 °C under any circumstance. Otherwise particularly component B will change its state of aggregation and will start to crystallize. If this occurs, the processing will be delayed by up to 24 hours. Under these circumstances we recommend to heat the container with slightly opened cover to about 60-70 °C in the oven until the original state is restored. This process may take up to 24 hours. The material can be processed again as usual after it has cooled down to room temperature. Always keep the container well closed since smallest amounts of humidity may already modify the foaming characteristics considerably.

### Processing

- Thoroughly shake the components prior to mixing
- Relate the mixing ratio always to the weight and not to the volume and weigh components correctly
- Take a safety margin for the required amount of liquid foam into consideration because some of the material will remain on the wooden spatula (do not scratch off because the remains on the spatula are often unmixed compounds)
- Do not try to influence the foaming process by shaking, knocking etc.

You will find a summary of our delivery program on the following pages. You can download the corresponding safety data sheets via our homepage, or we would be glad to forward them upon written request or requests made by phone.



Polyurethane foam materials are hazardous substances and may cause allergic reactions when not cured.

Toluylene diisocyanate used for some PUR foams evaporates at room temperature and inhalation of the vapors may cause damage to the lungs. Pay attention to an adequate ventilation of the workstation and use an appropriate PPE (rubber gloves, plastic apron, and safety goggles) when processing these materials.

Especially in the case of PUR foams it is very easy to influence reactivity and consistency by means of humidity: Just a small drop of water changes the foaming behavior and the density of the material considerably!





## PU-Rigid Foam with Hardener H350

volume weight 290 kg/m<sup>3</sup>, for shoe lasts and length compensations

**Mixing ratio**  
10 parts rigid foam : 11 parts hardener



Rigid foam	Hardener	PU	Item-No.
1,0 kg	1,1 kg	1 set	112P21/1
5,0 kg	5,5 kg	1 set	112P21/5



Please regard the mixing ratio and mix the components well.

## AlphaPlast® Rigid Foam H200

volume weight 175 kg/m<sup>3</sup>, for length compensations and cosmetics, branded product

**Mixing ratio**  
1 part rigid foam : 1 part hardener



kg	PU	Item-No.
0,865	1 tin	112P16/1
4,600	1 can	112P16/5



Please regard the mixing ratio and mix the components well.

## AlphaPlast® Rigid Foam H300

volume weight 230 kg/m<sup>3</sup>, for length compensations and cosmetics, branded product

**Mixing ratio**  
1 part rigid foam : 1 part hardener



kg	PU	Item-No.
0,865	1 tin	112P23/1
4,600	1 can	112P23/5



Please regard the mixing ratio and mix the components well.

# Foams



## AlphaPlast® Rigid Foam H700

volume weight 660 kg/m<sup>3</sup>, for shoe lasts and pressure-tight length compensations, impact resistant, branded product

### Mixing ratio

1 part rigid foam : 1 part hardener

kg	PU	Item-No.
0,865	1 tin	112P25/1
4,600	1 can	112P25/5



The expansion behaviour of our hard foam H700 is less pronounced than that of our hard foams H200, H300 and H350.



## Hardener

for AlphaPlast® rigid foam and duplicating paste

### Mixing ratio

1 part rigid foam H200, H300, H700 : 1 part hardener



kg	PU	Item-No.
0,865	1 tin	112P24/1
4,600	1 can	112P24/5



Please regard the mixing ratio and mix the components well.

## Degaplast® Duplicating Paste

for duplication of inner shafts

### Mixing ratio

10 parts duplicating paste : 4 parts hardener for rigid foam item 112P24



kg	PU	Item-No.
1,000	1 bottle	112P32/1



For insulation and to achieve a better impression result, please use our Releasing Agent item 84E6.



## Rigid Foam H300

volume weight 230 kg/m<sup>3</sup>, for length compensations and cosmetics, own-brand Streifeneder

### Mixing ratio

1 part rigid foam H300 : 1 part hardener

kg	PU	Item-No.
0,865	1 can	112P56/1
5,000	1 can	112P56/5



Please regard the mixing ratio and mix the components well.



## Rigid Foam H700

volume weight 660 kg/m<sup>3</sup>, for shoe lasts and pressure-tight length compensations, impact resistant, own-brand Streifeneder

### Mixing ratio

1 part rigid foam H700 : 1 part hardener

kg	PU	Item-No.
0,865	1 can	112P57/1
5,000	1 can	112P57/5



Please regard the mixing ratio and mix the components well. The expansion behaviour of our hard foam H700 is less pronounced than that of our hard foam H300.



## Degaplast® Flexible Foam W150

volume weight 165 kg/m<sup>3</sup>, for soft cosmetics and paddings

### Mixing ratio

2 parts Degaplast® flexible foam W150 : 1 part hardener item 112P28/1

kg	PU	Item-No.
0,865	1 bottle	112P26/1



Please regard the mixing ratio and mix the components well.



## Degaplast® Flexible Foam W300

volume weight 325 kg/m<sup>3</sup>, for elastic compensations

### Mixing ratio

2 parts Degaplast® flexible foam W300 : 1 part hardener item 112P28/1

kg	PU	Item-No.
0,865	1 bottle	112P27/1



Please regard the mixing ratio and mix the components well.



## Degaplast® Hardener for Flexible Foam

### Mixing ratio

2 parts Degaplast® flexible foam W150 or W300 : 1 part hardener item 112P28/1

kg	PU	Item-No.
0,865	1 bottle	112P28/1



Please regard the mixing ratio and mix the components well.



Pre-preg



# Pre-preg

The word "Pre-preg" comes from the English word "pre-impregnated". Pre-preg is composed of the base material that has been impregnated with a predetermined amount of resin, preferably epoxy resin.

## Why use epoxy resin?

- Type of resin most-used for high-quality composites
- Has a good mechanical and bonding property
- Has a good temperature resistance (200 °C) and resistance to chemicals
- Has a low curing temperature of 80° to 120 °C

## Which properties does this resin have?

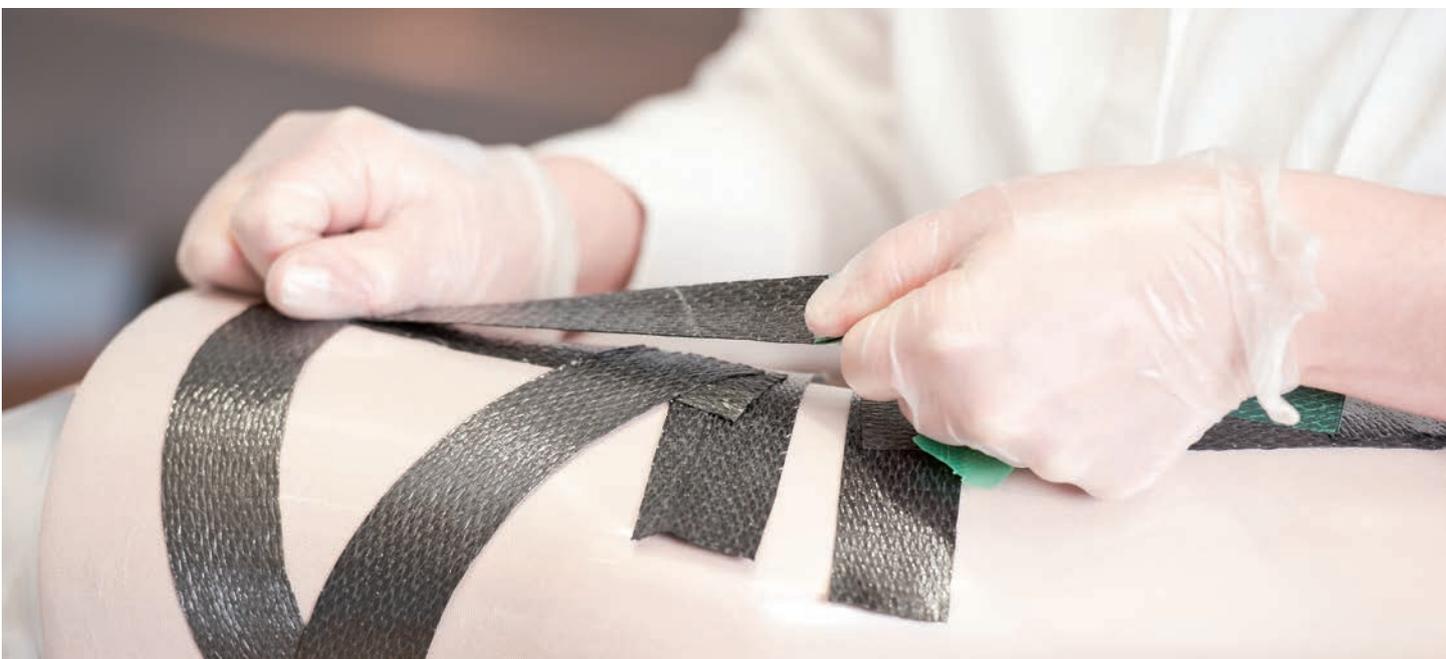
- Fixing of fibers
- Protection of fibers
- Shaping
- Transfer of forces between fibers
- Absorption of forces transversal to fibers

## Characteristics:

- Considerable force absorption with low deadweight
- Base material and resin components are exactly balanced
- Improved design possibilities dynamic designs are feasible
- Reduced loss of material

## Storage:

- 12 months at -18 °C
- Up to 21 days at +20 °C
- One day at room temperature corresponds to 13 days less at -18 °C



### Technical information:

- Plaster models must be absolutely dry.
- Touch Pre-preg with powder-free vinyl gloves item 80C12 only and pay attention to a dry, dust-free and grease-free environment.
- Always stretch the fibers for processing in order to ensure an optimum take-up of forces (exact positioning of the fibers saves grinding).
- Metal surfaces should be used with Pre-preg material as little as possible because compared to Pre-preg metal expands and contracts differently under temperature influences. This may lead to excessive tensional differences in the case of long laminated splints and the bonded connection may tear.
- Metal can be bonded well with Pre-preg on grease and dust-free surfaces only.
- The first contact layer to metals must not be carried out directly over the non-woven honeycomb fabric; a carbon fiber layer for instance may be used as adhesion promoter.
- The best rigidity and form stability is achieved by means of a triangular construction and profiling (the thicker neutral fiber passes through the honeycomb fabric).
- Fracture resistance and stability can be increased by forming larger circles within the load pattern.
- It is possible to cover a Pre-preg-frame with a layer of acrylic resin. Prior to laying the Pre-preg, a defined distance layer (e. g. 3-4 cotton-jersey layers) has to be created between the model and the insulating PVA-sheet, in order to be able to pour some layers of nylon, nylglas or other material under the Pre-preg-frame for the later casting process.
- If the Pre-preg result is too weak, additional Pre-preg-layers can be added and cured, however, we do not recommend the use of further extraction textile.
- Even transitions are achieved by a slight offset of the overlapping Pre-preg-layers (approx. 0.5 to 1.0 cm), however, the final layer should cover all other layers (nicer optical aspect).
- The best processing temperature ranges between 23° and 28 °C. The higher the room temperature, the more sticky the Pre-preg.
- All consumption and utility materials (e. g. tapes) must be temperature resistant up to at least 100 °C according to the relevant curing temperature.
- Empirical values of curing times are 1.5 hours at 100 °C without (plaster) model and 8 hours at 100 °C with plaster model.



Warm up material at least one hour prior to processing at room temperature  
in order to evaporate the condensed humidity of the fibers

# Pre-preg – Flow of Work

The classical flow of work when using Pre-preg is organized as follows:

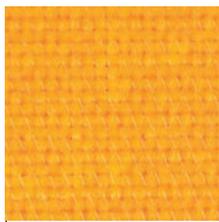
- Step 1: Insulate the completely dried model with PVA-sheet and connect to a vacuum unit (Vacumat)
- Step 2: If necessary, sketch the form and the width of the frame
- Step 3: Determine the number of layers, the sequence of layers and cut the required material (pay attention to the direction of fiber!)
- Step 4: Cut with a utility knife and ruler or by means of a pair of ceramic scissors or electric scissors (remove protective layer only just prior to applying the material)
- Step 5: Put the layers down in consequential order up to the neutral fiber (pay attention to stretch the fibers) and after the neutral layer put the layers down in mirror-inverted sequence (it helps to check off the used layers in a notebook)
- Step 6: Put down the tear-off fabric onto the layers as wrinkle-free as possible (if necessary cut wrinkles)
- Step 7: Fix the perforated sheet (used to distribute resin in a controlled manner to the extraction textile during curing) on top of the tear-off fabric (may be fixed at the selected spots by means of temperature resistant tape)
- Step 8: Fix extraction fabric on top of perforated sheet
- Step 9: Strip over either PVA-sheet or vacuum bag and remove air
- Step 10: Put the Pre-preg piece into the preheated oven (80° to 100 °C) and cure under continuous vacuum for 1.5 to 8 hours
- Step 11: At the end of the curing time switch off the oven and let the model cool down slowly in the oven
- Step 12: Take the lukewarm model out of the oven and remove the tear-off fabric and the extraction fabric from the Pre-preg structure
- Step 13: Continue to process the model as desired (wear appropriate PPE!)



Always pay attention to work on a clean and dust-free underlay.  
Wear powdered vinyl gloves!  
Clean knife and scissors regularly with acetone.

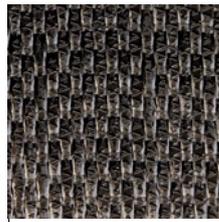
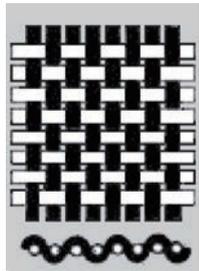
It is very important that there is absolutely no humidity enclosed in the model and in the Pre-preg fibers. Otherwise, the Pre-preg will not cure!

# Pre-preg – Types of Fabrics & Types of Weave



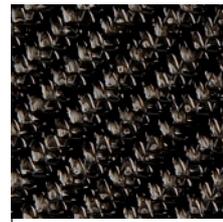
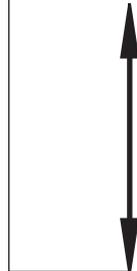
Aramid

Linen weave



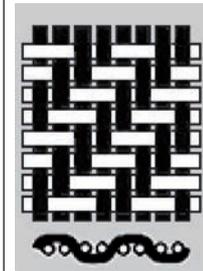
Unidirectional  
carbon fiber

unidirectional

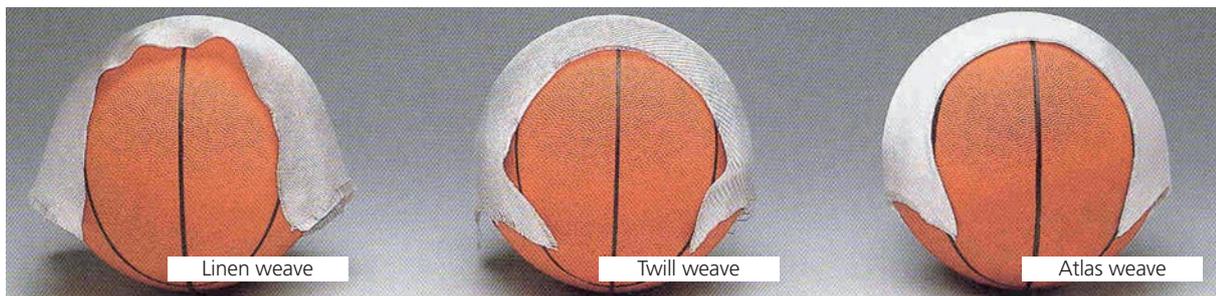


Bidirectional  
carbon fiber

Twill weave

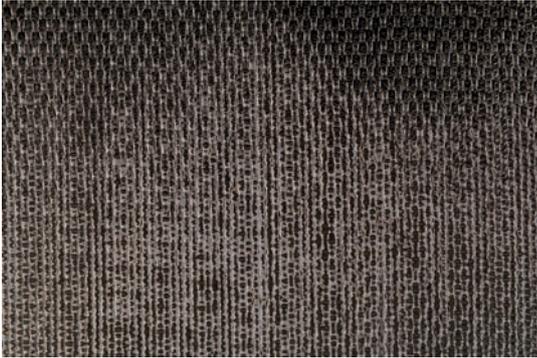


Depending on the type of weave, different properties are achieved. The more threads are left out, the more the fabric will cling to forms. The linen weave for instance is not very good to drape, however, it is more rigid.





## Carbon Fibre Pre-preg CU 420



uni-directionally woven, basic material for the manufacture of e. g. orthoses in a frame construction

- for the absorption of axial and circular forces
- fibers arranged in a parallel formation are held by glass fiber to enable easier draping
- pre-preg mass per unit (DIN 53854): 410 g/sqm
- recommended curing time: at 100° C (depending on model 5-8 hours)
- storable at 20° C: 21 days
- storable at -18° C: 360 days

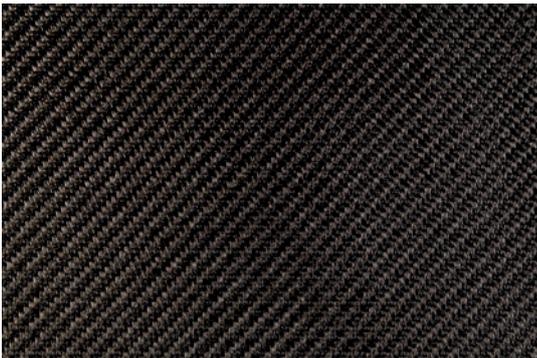
PU = 1 sqm

Weight	Width	Item-No.
410 g/sqm	1000 mm	10C2



Please always apply the fibers in a stretched manner.

## Carbon Fibre Pre-preg



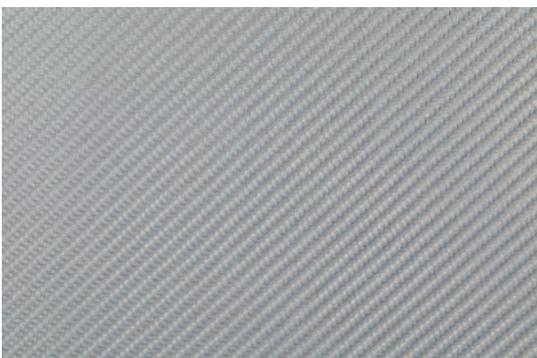
bi-directionally woven, suitable for reinforcement layers or to minimize torsion forces, for thinwalled as well as light and filigree workpieces

- twill weave: 4:4
- pre-preg mass per unit (DIN 53854): 280 g/sqm
- recommended curing time: at 100° C (depending on model 5-8 hours)
- storable at 20° C: 21 days
- storable at -18° C: 360 days

PU = 1 sqm

Weight	Width	Item-No.
280 g/sqm	1000 mm	11C2

## Fibreglass Pre-preg



bi-directionally woven

- twill weave: 2:2
- pre-preg mass per unit (DIN 53854): 290 g/sqm
- recommended curing time: at 100° C (depending on model 5-8 hours)
- storable at 20° C: 21 days
- storable at -18° C: 360 days
- the silvery surface results from aluminisation

PU = 1 sqm

Weight	Width	Item-No.
290 g/sqm	1000 mm	13C2



Attention: Aluminisation only on one side!

## Aramid Pre-preg



bi-directionally woven, Kevlar fiber to avoid breaking cut-outs

- plain weave
- pre-preg mass per unit (DIN 53854): 170 g/sqm
- recommended curing time: at 100° C (depending on model 5-8 hours)
- storable at 20° C: 21 days
- storable at -18° C: 360 days

PU = 1,2 sqm

Weight	Width	Item-No.
170 g/sqm	1200 mm	12C2

## Dyneema Pre-preg



bi-directionally woven, PE-fiber for flexible couplings

- twill weave: 2:2 (herringbone)
- pre-preg mass per unit (DIN 53854): 180 g/sqm
- recommended curing time: at 100° C (depending on model 5-8 hours)
- storable at 20° C: 21 days
- storable at -18° C: 360 days

PU = 1 sqm

Weight	Width	Item-No.
180 g/sqm	1000 mm	14C2

## High Performance Sealing Grease (Stick Wax)



highly temperature resistant

PU = 1 tin

kg	Item-No.
0,425	1C1

## Tearing Foil



for draping on adhered pre-preg-layers, will leave a roughened surface after removal, excessive resin drains off at the side

Temperature resistance: max. 232 °C

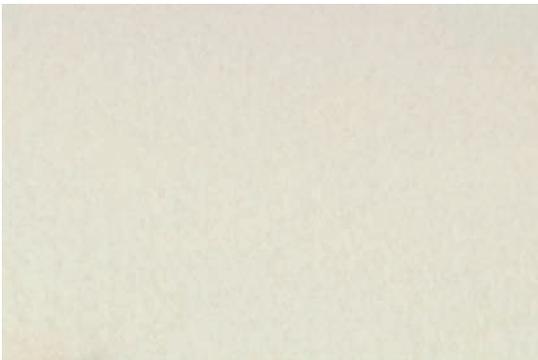
PU = 1 sqm

Width x Thickness	Item-No.
1500 x 0,02 mm	20C1



Optimally suitable for hand laminations in cast resin technique.

## Suction Fleece



allows the initiation of vacuum, suction fleece absorbs excessive resin out of the pre-preg composite, nontoxic and anti-allergic

Temperature resistance: max. 205 °C

PU = running meter

Width	Item-No.
1500 mm	40C1

## Honeycomb Fleece



for the creation of profilings in pre-preg laminate

PU = 1 sqm

Width x Thickness	Item-No.
1250 x 3 mm	110C2



## Freeze Spray



- suitable for releasing bonded but not yet connected pre-preg material
- due to refrigeration it is possible to dissolve the layers a lot easier
- contains a special refrigerating agent for all industrial application ranges
- local freezing of the sprayed area of up to -45 °C (-113 °F) can be produced

Liter	PU	Item-No.
0,400	1 tin	116P14



## Plastic Tying Tape

adhesive on one side, reinforced with „Perlon“-fibres

PU = 50 meters per roll

Width	Item-No.
19 mm	119P16



## Sealing Tape

tough-elastic tape with bonding surface, provides for the sealing of air holes when initiating the vacuum

PU = 1 roll (9,15 m)

L x W x Thickness	Item-No.
9150 x 13 x 3 mm	60C1



## Araldite Adhesive



- thixotropic
- tough bond with gap filling properties
- if applied up to layers of 10 mm, the adhesive will not escape
- we recommend Araldite Adhesive for GFK bondings
- Araldite 2015 is a paste-like epoxy based two component adhesive, it will cure at room temperature and creates semi-elastic bondings

PU = 1 tube

Volume	Item-No.
50 ml	90C1



## Mixing Gun

for Araldite Adhesive item 90C1

PU = 1 piece

	Item-No.
	100C1



## Silicone Hose

suction hose made of heat-resistant silicone, colour transparent

Temperature resistance: max. 300 °C

PU = 1 m

Inner diameter	Wall thickness	Item-No.
6 mm	2 mm	70C1



## Silicone Hose

suction hose made of heat-resistant silicone, fabric reinforced, colour: red

Temperature resistance: max. 300 °C

PU = 1 m

Inner diameter	Wall thickness	Item-No.
6 mm	3 mm	75C1



## Vacuum Adapter

to attach of the suction hose which can be placed anywhere at vacuum bag item 50C1 and thus is independent from a suction unit

suitable for silicone hose 70C1

PU = 1 piece

Outer diameter	Item-No.
6 mm	80C1



## Disposable Vinyl Gloves

- for processing pre-preg
- made of vinyl, non-sterile, powder free
- skin-friendly
- suitable for latex allergic persons
- PU = 100 pcs

Size	Item-No.
S = 6 - 7	80C12/S
M = 7 - 8	80C12/M
L = 8 - 9	80C12/L
XL = 9 - 10	80C12/XL



## Pastosil

component A and B, RTV silicone plasticine, skin colour, for direct casts on patient, for copying of models and for manufacturing of test prostheses, grindable in hardened condition, suitable for the insulation of splints, joints, spacekeepers and the like when processing pre-preg

Processing time depending on room temperature: 2-5 min

### Mixing Ratio

component A : component B 1 : 1

PU = 2 plastic containers

PU	Item-No.
4 x 0,25 kg	81E2/1
2 x 1,0 kg	81E2/2

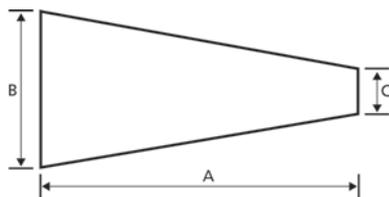


## PVA Lamination Bag „Special“

0,1 mm thickness, extremely sturdy, for processing of acrylic-, polyester resin casts and pre-preg

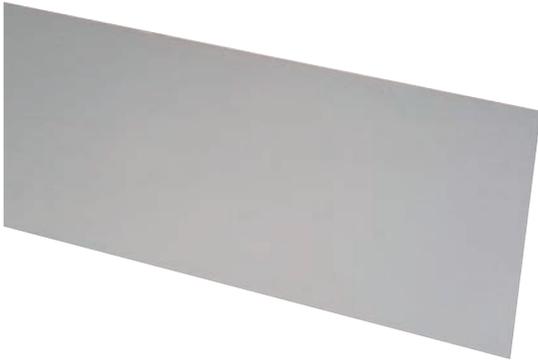
Size B + C = half circumference

PU = 10 pcs



Dimensions A x B x C	Description	Item-No.
560 x 110 x 40 mm	PVA Bag Size AR	119P9/AR
670 x 270 x 120 mm	PVA Bag Size O	119P9/O
680 x 190 x 70 mm	PVA Bag Size W	119P9/W
1000 x 220 x 70 mm	PVA Bag Size U	119P9/U
1360 x 260 x 50 mm	PVA Bag Size OU	119P9/OU

## Silicone Sheet



transparent, for the creation of shiny and smooth surfaces when processing pre-preg

PU = 1 piece

Dimensions L x W x Thickness	Version	Item-No.
920 x 920 x 0,8 mm	shiny finish	119P7/08



Zwischen Silikonmatte und PVA-Folie sollte eine Lage Baumwolltrikot gelegt werden, um ein gleichmäßiges Vakuum zu erzeugen.

## Silicone Bag

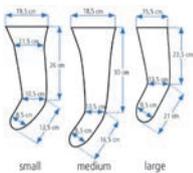


for the creation of shiny and smooth surfaces when processing pre-preg

Size	Item-No.
small	119P8/S
medium	119P8/M
large	119P8/L



Please put a layer of cotton tricot between the silicone sheet and the PVA-foil in order to create a uniform vacuum.



## Cotton Stockinette



colour: white/bleached, very elastic, for humidity absorption

Width	Pu/kg	Length per roll	Item-No.
40 mm	0,5	32,0 m	95P3/4
60 mm	0,5	23,8 m	95P3/6
80 mm	0,5	17,2 m	95P3/8
100 mm	1,0	27,7 m	95P3/10
120 mm	1,0	25,6 m	95P3/12
150 mm	1,0	19,2 m	95P3/15
200 mm	1,0	14,9 m	95P3/20
250 mm	1,0	12,5 m	95P3/25
300 mm	1,0	10,0 m	95P3/30
350 mm	1,0	8,9 m	95P3/35
400 mm	1,0	7,7 m	95P3/40

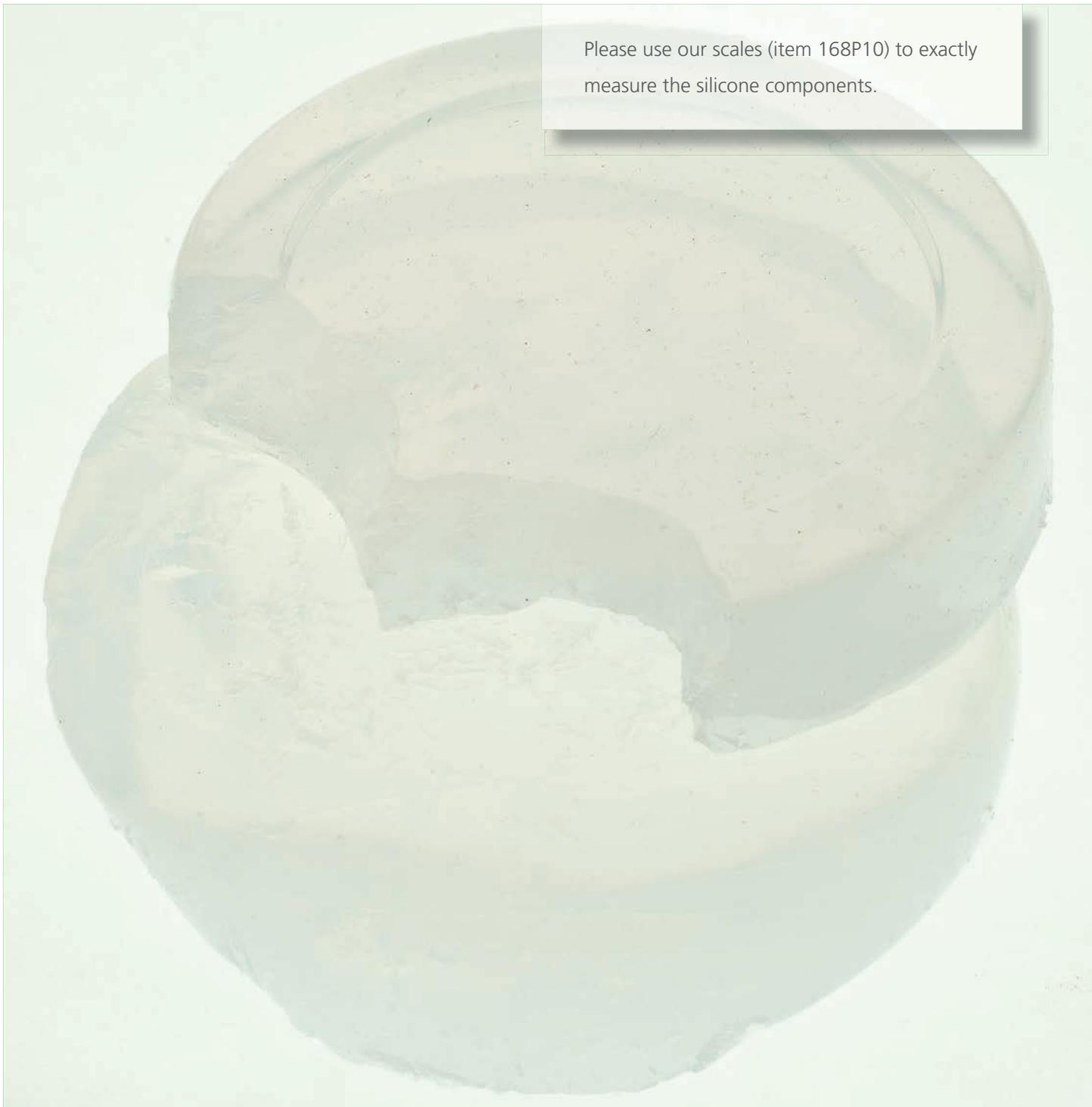


Silicone



# Silicone

Predominantly known from plastic surgery, silicone has already been an important material for a long time and meanwhile it is no longer possible to imagine orthopaedic technology without it. Especially when it comes to the aesthetic demands of amputations or recreating tissue defects, silicone has become the most important material in epithetics. True to detail, deceptively real-looking body replacements, whose connection to the human body seems almost invisible, can soothe the psychological pain of traumatized patients. But also in physiological terms the user will benefit from silicone: Silicone cushionings provide excellent wearing comfort, regardless of whether they are used in a socket for a prostheses, in an epitheses or an ortheses.



Please use our scales (item 168P10) to exactly measure the silicone components.

Our range of products in the silicone segment includes not only the raw material itself, but of course also all of the key materials and tools needed for manufacturing of epitheses, as well as prosthetic and orthotic sockets. This spans from specialized materials for mold-making, primers and insulations, silicones in different degrees of hardness, dyes of many kinds and miscellaneous adhesives as well as a great number of tools and machinery.



Apart from the excellent physical characteristics of silicone and the very good biocompatibility, which avoids skin irritation or allergies, further advantages of silicone are:

- Optimum adhesion
- Durability
- Elasticity
- Easy care
- High wearing comfort
- Physiologically particularly well tolerated



When processing HTV-silicone, there are a few 'golden rules' to obey:  
Please process silicone at a preferably low room temperature, ideally between 16° and 19 °C, in order to avoid the compound silicone from curing too soon.

Use a separate room or a suitable work station, which can be air-conditioned or cooled.

In case of intermissions in the work process, please put the work piece in a suitable refrigerator.

Please pay attention to general cleanliness at the work station and only use a suitable work base, such as our mixing block (item 75E1).

Pay close attention to the safety measures when mixing silicone at the electric roller (Kalander).

Please obey the following rule of thumb when supplying heat in the oven (tempering/post-curing): 8 hours at 50 °C and 2 hours at 100 °C.

# Silicone

## What is silicone?

Silicium (chemical shortcut: Si), which in connection with oxygen (O<sub>2</sub>) is obtained from several natural products such as sand, pebble stone or quartz, serves as a starting product for the fabrication of silicone. The single molecules are the so-called siloxanes, which link up to form poly-siloxane molecular chains and depending on the synthesis process form the following polymers:

- Threadlike, non-cross linked silicones, e. g. silicone oils
- Weakly crosslinked, still dissoluble polymers, e. g. silicone resins
- Polymers crosslinked to form elastomers, e. g. silicone rubber

Classification of silicones	RTV-silicone = silicone linked at room temperature	HTV-silicone = silicone linked at high temperature
Colour	transparent respectively opaque	transparent
Consistency	liquid respectively pasty	wax-like
Processing	casting technique respectively kneading	rolling and milling of the material and application in the desired strength
Curing	at room temperature 18° to 20 °C	while supplying temperature 80° to 100 °C

## RTV-silicones:

In order to process RTV-silicones two components are needed. The consistency of the final product is determined by the mixing ratio, which means that an individual approach to the needs and indications of the patient is possible.

Range of application: spacers and adjustments, e. g. after toe amputations, trial prosthesis.

## HTV-silicones:

With HTV-Silicones we offer a whole range of different silicones with different degrees of shore hardness. Due to their skin contact and the needed biocompatibility they contain platinum as a catalyst. The mixing ratio of HTV-Silicones always has to be 1:1 and therefore both material components need to be diligently measured and blended with each other. In an electric roller (Kalander), the components are blended and rolled until the compound is evenly mixed. Using the apportioning method, the rolled uniform silicone layer is put around the model and seams and intersections are closed with a special tool. A thin, fine nylon tricot (item 95P1 or 95P2) avoids an adhesion of the PVA-foil to the silicone and can be removed after vacuuming without any difficulty. The silicone cures while temperature is being supplied (approx. 80° to 120 °C at approx. 12 hours dwell time in the oven) and for example an individually made silicone liner has been created.

### **Silicone-oils:**

Added silicone oil will lower the viscosity of silicones, however a ratio of 5 % oil to the total quantity may not be exceeded.

Characteristics of silicone oil:

- Is not integrated into the chain-linking process
- Will lead to a decrease of tensile strength
- Reduces shore hardness
- Enhances material stretch
- Silicone becomes softer and has a tendency to sweat out more

### **Reinforcements:**

We advise to use only one layer of tricot for reinforcements, in order to

- Reduce pistoning, which means no pseudo-arthrosis between stump and socket
- Achieve constant lateral elasticity and thereby shape retention
- Well-directed compression of soft tissue
- Resistance to cracks

### **Inhibitors:**

Inhibitors are external influences when processing silicones. These may be desirable or just as well undesirable. In the first case they are called "controlled", in the second case they are called "not controlled" inhibitors.

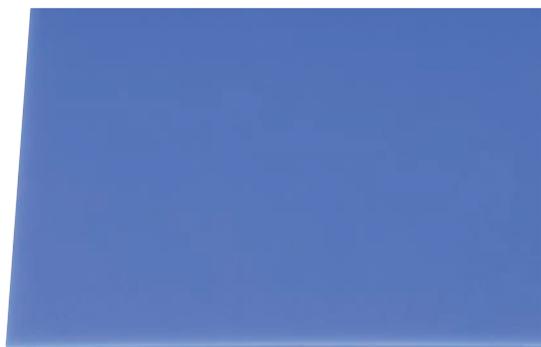
Controlled inhibitors: Are measures used to specifically delay the response time when processing silicones (e. g. item 81E3)

Not controlled inhibitors: These undesired external influences will prevent the silicone from curing, amongst them are:

- Rubber
- Latex
- Sulfur
- Instant adhesive
- Adhesives in several adhesive foils
- All the agents which may react with platinum



## Silicone Sheet



for padding of orthoses and prostheses, colour: blue

20-25° Shore A hardness

PU = 1 piece

L x W x Thickness	Item-No.
295 x 210 x 2 mm	10S10/2
295 x 210 x 3 mm	10S10/3
295 x 210 x 4 mm	10S10/4
295 x 210 x 5 mm	10S10/5
295 x 210 x 6 mm	10S10/6



For bonding please use Indisil Glue item 81E7.

## Silicone Sheet with Cloth Lining



with cloth lining (84 % polyamide, 16 % elasthane, 275 g/sqm), coated with „bi-elastic cloth“ on one side, for padding of orthoses and prostheses, when working with glue only use rapid glue item 118P29

20-25° Shore A hardness

PU = 1 piece

L x W x Thickness	Colour/bielastic	Item-No.
295 x 210 x 3 mm	blue	10S11/3B
295 x 210 x 4 mm	blue	10S11/4B
295 x 210 x 5 mm	blue	10S11/5B
295 x 210 x 6 mm	blue	10S11/6B
295 x 210 x 3 mm	yellow	10S11/3G
295 x 210 x 4 mm	yellow	10S11/4G
295 x 210 x 5 mm	yellow	10S11/5G
295 x 210 x 6 mm	yellow	10S11/6G
295 x 210 x 3 mm	peach	10S11/3H
295 x 210 x 4 mm	peach	10S11/4H
295 x 210 x 5 mm	peach	10S11/5H
295 x 210 x 6 mm	peach	10S11/6H

## Alginate



- for detailed cast taking of fingers, epitheses, feet and hands
- apply a 1 cm layer on the requested body section and reinforce from the outside with a POP bandage
- subsequently fill the cast with plaster (item 5E1 or 5E2)
- colour: yellow

### Mixing ratio

23 g Alginate : 50 ml cold water

PU = 1 tin

kg	Item-No.
500 g	1E2

# Silicone



## Vaseline

for skin protection and insulation of casts using Alginate

PU = 1 tin

kg	Item-No.
1000 g	119P26



## Abdosil L with Catalyst

- blue
- incl. catalyst
- silicone for impressions with low viscosity
- for the manufacture of very precise casts, especially for Maxillo-Facial-Prosthetics
- set with two cartridges à 50 ml and 12 mixing tips

PU	Item-No.
1 Set	82E4



## Abdosil H with Catalyst

to stiffen the material

- green
- incl. catalyst
- silicone for impressions with high viscosity
- for the manufacture of casts in the range of Maxillo-Facial-Prosthetics
- set with two cartridges à 50 ml and 12 mixing tips

PU	Item-No.
1 Set	82E5



To stiffen the casts made of Abdosil L item 82E4.



## Mixing Gun

for Abdosil L item 82E4 and Abdosil H item 82E5

PU = 1 piece

Item-No.
82E6



## Mixing Board

- for mixing of Episil und Abdosil
- waxed paper with anti-slip coating to avoid displacement
- PU = 1 board

Dimensions L x W	Item-No.
240 x 150 mm	75E1



## Moulding Plaster, synthetic

for detailed copy from a negative and for mould construction, low expansion

### Mixing Ratio

1 part water : 3 parts special plaster item 5E2

PU = 1 bag

kg	Item-No.
25	5E2



## Moulding Plaster, porous

for direct contact between silicone and plaster and in combination with vacuum technics using Pastosil und Episil

### Mixing ratio

1 part water : 1,5 parts plaster item 5E1

PU = 1 bag

kg	Item-No.
25	5E1



## Sealer/Liquid Wax

insulates plaster casts safely against silicone, liquid, spreadable

PU = 1 bottle



Liter	Item-No.
500 ml	84E9

## Doubling Gel

reusable, high quality doubling compound made of gel, specially hard and dimensionally stable, suitable for copying plaster models or for abdomollen

Melting point approx. 90 °C

Curing approx. 30 °C

PU = 1 bucket



kg	Item-No.
6	84E3



## Abdoform Releasing Agent

wax in solvent, releasing agent for mould making, recommended to insulate models

PU = 1 tin



kg	Item-No.
750 g	84E6



## Pastosil

component A and B, RTV silicone plasticine, skin colour, for direct casts on patient, for copying of models and for manufacturing of test prostheses, grindable in hardened condition, suitable for the insulation of splints, joints, spacekeepers and the like when processing pre-preg

Processing time depending on room temperature: 2-5 min

### Mixing Ratio

component A : component B 1 : 1

PU = 2 plastic containers

PU	Item-No.
4 x 0,25 kg	81E2/1
2 x 1,0 kg	81E2/2



## Retrosil

decelerates the reaction of Pastosil and extends the processing time, max. 1-3 drops Retrosil on 100 g Pastosil

PU = 1 bottle

kg	Item-No.
0,100	81E3



## Kon-Gel

components A and B, liquid RTV silicone, for manufacture of stump end load absorption cushions and for soft cushioning

### Mixing ratio 1: 1

component A : component B 1 : 1

PU = 1 set (2 tins)

kg	Item-No.
0,5 each	81E23



## Facialsil, 35° Shore A hardness

liquid HTV silicone, for manufacture of Maxillo-Facial-Prostheses

### Mixing ratio

component A : component B 1 : 1

PU = 1 set (2 tins)

kg	Item-No.
1,0 kg (component A) and 0,1 kg (component B)	81E1



## Episil/Episil-Catalyst, 20° Shore A Hardness

component A and B, HTV silicone, rollable, very tear-resistant, for manufacture of liners, compression gloves and other elastic fittings

### Mixing ratio

component A : component B 1 : 1

PU = 1 set (2 tins)

kg	Item-No.
1,0 each	80E11/2
4,8 each	80E11/9,6
6,8 each	80E11/13,6



## Episil/Episil-Catalyst, 35° Shore A hardness

component A and B, HTV silicone, rollable, very tear-resistant, for manufacture of forefoot prostheses, finger- and partial hand epitheses as well as cosmetic covers

### Mixing ratio

component A : component B 1 : 1

PU = 1 set (2 tins)

kg	Item-No.
0,5 each	80E21/1
1,0 each	80E21/2
4,8 each	80E21/9,6
6,8 each	80E21/13,6



## Episil/Episil-Catalyst, 65° Shore A hardness

component A and B, HTV silicone, rollable, very tear-resistant, for manufacture of supporting scare treatments, reinforcements and orthoses

### Mixing ratio

component A : component B 1 : 1

PU = 1 set (2 tins)

kg	Item-No.
1,0 each	80E31/2
4,8 each	80E31/9,6
6,8 each	80E31/13,6



## Streifysil liquid, 5° Shore A hardness

components A and B, liquid RTV silicone, for the manufacture of load bearing cushions for stump-ends, soft pads and liners

### Mixing ratio

component A : component B 9 : 1

PU= 1 set (2 tins)

kg	Item-No.
0,9 kg (component A) and 0,1 k (component B)	81E21



## Stabilisator for RTV silicones

for thickening of RTV silicone item-no. 81E21

kg	Item-No.
0,1 kg	81E22



## Silicone Remover

for cleaning of work surfaces, tools and rollers

PU = 1 tin

Liter	Item-No.
1,0	83E1



## Heptan

detergent and solvent for silicones, for surface dissolving of uncured Episil item 80E31 (65° Shore A hardness)

PU = 1 bottle

Liter	Item-No.
250 ml	83E4



## Acrylic-Lacquer

transparent, shiny, or insulating of plaster cast models

PU = 1 tin



Litre	Item-No.
500 ml	117P8



if used with HTV-silicones, remove the model while still warm

## Silicone Oil 1000 Cs

transparent, for reducing the viscosity of unvulcanised silicones and silicones with vulcanised shore hardness

PU = 1 bottle



Liter	Item-No.
500 ml	83E2/0,5



## Silicone Base Coat/Primer

for surface treatment between silicone and other materials

PU = 1 bottle



Liter	Item-No.
30 ml	83E3

## Diresil Glue - adhering agent

acetate crosslinked single-component-silicone, for conditionally long-living bonds and for repair of silicones with direct skin contact

PU = 1 tube



kg	Item-No.
80 g	81E6



A metal bracket facilitates the squeezing the silicone adhesive out of the tube.



## Indisil Glue - adhering agent

acetate crosslinked single-component-silicone, for conditionally long-living bonds and for repair of silicones without direct skin contact

PU = 1 tube

kg	Item-No.
80 g	81E7



A metal bracket facilitates the squeezing the silicone adhesive out of the tube.



## Super Glue

low viscosity cyanoacrylate rapid glue, for silicone bonding and other synthetic materials



kg	PU	Item-No.
0,020	1 bottle	118P29



Please always wear protective goggles (PPE) when working with rapid glue.



## Loctite Silicone Glue Set

for strong and very tight bondings of silicones and other elastomers

Glue Set consisting of:

- 1x Loctite 7063, Quick Cleaner 400 ml item 118P41
- 1x Loctite 770, Primer 10 g item 118P45
- 1x Loctite 406, Rapid Glue 20 g item 118P44

PU = 1 set



Item-No.
81E20



## Loctite 770, Primer

chemical roughening agent to improve ingressing of Loctite Rapid Glue, item 118P44

PU = 1 tin



kg	Item-No.
10 g	118P45



## Loctite 406, Rapid Glue

for strong and very tight bondings of silicones and other elastomers

PU = 1 bottle



kg	Item-No.
20 g	118P44



## Loctite 7063, Quick Cleaner

to thoroughly clean and prepare the adherent surface

PU = 1 tin



Liter	Item-No.
400 ml	118P41

## Cleardur

transparent acrylic powder for manufacturing finger- and toe nails, use with Monodur Item-No. 81E25

PU = 1 tin



kg	Item-No.
75 g	81E24



## Monodur

vor mixing with Cleardur item-no. 81E24, clear, liquid acrylic monomer

PU = 1 bottle



Liter	Item-No.
50 ml	81E25



## Silicone Hose

placeholder for the manufacture of fingers

Outer diameter: 1 mm

Inner diameter: 0,4 mm

Meter	Item-No.
0,5	81E12



## Facialglue

solvent based silicone skin bond for attaching epitheses and prostheses

PU = 1 bottle



Liter	Item-No.
15 ml	81E14

# Silicone



peach



white



red



yellow



blue



black



dark brown



light brown

## Pacolor

liquid, for colouring of silicones

Colour	PU	Item-No.
peach	50 g	40E10
white	25 g	40E11
red	25 g	40E12
yellow	25 g	40E13
blue	25 g	40E14
black	25 g	40E15
dark brown	25 g	40E16
light brown	25 g	40E17

## Facolor

viscose fibre (shiny), for colouring of silicones

PU = 1 bag (75 g)



Colour	Item-No.
white	45E11
red	45E12
yellow	45E13
blue	45E14
black	45E15
dark red	45E16
brown	45E17
pink	45E18
green	45E19
light brown	45E20
sunshine yolk	45E21
violet	45E22
orange	45E23

# Silicone



## Duolastic Cover Fabric

Bi-elastic cover fabric for individual manufacturing of liners



- Duolastic: extremely elastic in both directions (length: 200 %, width: 150 %) and abrasion resistant
- one side raised for better silicone – fabric connection
- material: 84 % polyamide, 16 % elasthane, 275 g/sqm, washable at 40 °C / 104 °F
- 

PU = running meter

Width	Colour	Item-No.
150 cm	royalblue	8T15/B
165 cm	yellow	8T15/G
165 cm	green	8T15/GÜ
150 cm	peach	8T15/H
150 cm	light blue	8T15/HB
150 cm	light grey	8T15/HG
150 cm	light peach	8T15/HH
150 cm	grey	8T15/MG

## Silicone Mixing Bowl



transparent, for mixing and colouring of acrylics used for finger- and toe manufacture

PU = 1 piece

Item-No.
75E2

## Scissors



- 130 mm
- small, bent, with micro-teeth on lower blade, specially recommend for cutting silicone
- PU = 1 piece

Item-No.
50E7



## Scissors

- 130 mm
  - small, bent, vertical tip, specially recommend for cutting silicone
- PU = 1 piece

Item-No.
50E17



## Silicone Spatula

- small, for modelling of moldable silicones and acrylics
- PU = 1 piece

Item-No.
50E6



## Silicone Spatula

- wide, for mixing of liquid silicones
- PU = 1 piece

Item-No.
50E5



## Alginate Spatula

- for mixing and applying of Alginate item 1E2
- PU = 1 piece

Item-No.
50E4



## Modelling Spatula made of Plastic Material

- to gently remove HTV-silicone residue from mechanical and electrical silicone rollers
- perfectly suitable for modelling plaster, wax, plasticine and silicone
- PU = 1 piece

Colour	Length	Item-No.
blau	approx. 200 mm	166P24



## Processing Roller

- conical
- for processing of moldable silicones
- PU = 1 piece

Item-No.

50E3



## Processing Roller

- cylindrical
- for processing of moldable silicones
- Ø 8,0 mm, length: 150 mm
- PU = 1 piece

Item-No.

50E15



## Processing Roller

- cylindrical
- for processing of moldable silicones
- Ø 5,0 mm, length: 120 mm
- PU = 1 piece

Item-No.

50E16



## Beale Spatula

- for modelling of wax and silicones
- PU = 1 piece

Item-No.

50E19



## Le Cron Spatula

- for modelling of wax and silicones
- PU = 1 piece

Item-No.

50E1



## Hylon Le Cron Spatula

- for modelling of wax and silicones
- PU = 1 piece

Item-No.
50E20



## Double-Sided Spatula, Small

- for modelling of wax and silicones
- PU = 1 piece

Item-No.
50E21



## Double-Sided Spatula, Wide

- for modelling of wax and silicones
- PU = 1 piece

Item-No.
50E22



## Tweezers

- with angled, toothed point
- PU = 1 piece

Item-No.
50E8



## Modelling Instrument

- for modelling of wax and silicones
- PU = 1 piece

Item-No.
50E2



## Modelling Instrument

- bent
- for modelling of wax and silicones
- PU = 1 piece

Item-No.

50E18



## Modelling Instrument Double, Apex Tip

- for modelling of wax and silicones
- PU = 1 piece

Item-No.

50E23



## Modelling Instrument Double-Sided, Fine Tip

- for modelling of wax and silicones
- PU = 1 piece

Item-No.

50E24



## Modelling Instrument Double-Sided, Rounded Tip

- for modelling of wax and silicones
- PU = 1 piece

Item-No.

50E25



## Wax Knife

- for modelling of wax and silicones
- PU = 1 piece

Item-No.

50E9

## Alcohol Torch



- for selective heating and equalisation of wax in epithetic technics
- PU = 1 piece

	<b>Item-No.</b>
	70E4

<P>By squeezing the bottle you may adapt the size of the flame.

## Scalpel



- sterile
- with plastic grip
- PU = 10 pcs

	<b>Item-No.</b>
	160P100

## Scalpel handle „Standard, fig. 4“



- solid flat handle suitable for blades fig. 18 - 36 length = 140 mm

	<b>Bestell-Nr.</b>
	50E26



## Scalpel Blade

- sterile
- small blade for detailed works
- for scalpel handle item-no. 50E26
- PU = 100 pcs

Size	Item-No.
Fig. 24	50E27



## Measuring Cup

- made of polypropylene, highly transparent, with calibration
- PU = 1 piece

Filling quantity	Height	Diameter	Item-No.
3000 ccm	242 mm	170 mm	90E29/3000
5000 ccm	270 mm	210 mm	90E29/5000



## Shaker

- air bubbles, which are in the plaster, move to the top whilst using the shaker
- suitable for continuous use
- 2-speed, with rubber suction feet
- PU = 1 piece

### Technical data

- table size: 210 x 130 mm
- dimensions W x H x D: 225 x 135 x 130 mm
- power requirements: 230 V / 50 Hz / 0,7 kW
- weight: 5 kg

Item-No.
90E10

## Plaster Mixer



- for airbubble-free mixing of plaster and liquid silicones
- for wall- or table mount
- vacuum device with maintenance-free injector pump
- sturdy and powerful motor
- easy installation
- automatic- and manual switch
- installed vibrator
- including mixing bowl 500 ml

### Technical data

- dimensions W x H x D: 240 x 400 x 220 mm
- revolutions per minute: 425
- power requirements: 230 V / 50 Hz / 0,25 kW
- weight: 15 kg
- colour: white

Item-No.
90E20

Scope of supply does not include tripod.



For all maintenance work at the plaster mixer, we recommend to use the special oil for plaster mixer, item-no. 90E20/E1 (volume 500 ml).



## Mixing Bowl for Plaster Mixer

- mixing bowl with agitator
- for mixing liquid plaster and RTV-silicones



90E20/500

Filling qty.	Material	Item-No.
300 ml	Plastic	90E20/300
500 ml	Plastic	90E20/500
875 ml	Plastic	90E20/875
1200 ml	Steel	90E20/1200

## Hand Grinder



- compact manageability
- low weight
- induction motor free of noise and vibration
- highrunning smoothness for fatigue free working, inclusive of knee control and line cord, connection cord and tray for tool holder
- PU = 1 piece

### Technical data

- tong Ø: 2,35 mm
- range of revolution: 3.000 - 35.000 RPM
- max. torque: 4,5 Ncm
- concentricity deviation: 0,02 mm
- power requirements: 230 V / 50 Hz / 0,1 kW

Item-No.
90E11



## Hand Grinder

- high performance machine with convenient handling
- low weight
- induction motor free of noise and vibration
- high running smoothness
- digital display with function analysis on control unit, incl. of knee control and line cord, connection cord and tray for tool holder
- PU = 1 piece

### Technical data

- tong  $\varnothing$ : 2,35 mm
- range of revolution: 1.000 - 50.000 RPM
- max. torque: 7 Ncm
- concentricity deviation: 0,02 mm
- power requirements: 230 V / 50 Hz / 0,15 kW

Item-No.
90E15



## Carbide Cutting Bit

- u-conical shape with flat point, tothing, for sharp-edged grinding works in plastic and metal
- PU = 1 piece

Item-No.
60E1



## Cutting Bit, Drum

- carbide cutting bit with spiral bevel tothing for silicone, cone shape with round point, for soft plastics and silicone, long tool life
- PU = 1 piece

Item-No.
60E2



## Carbide Cutting Bit

- drum shape with round point, fine spiral bevel tothing, for fine grinding works in plastic and metal
- PU = 1 piece

	<b>Item-No.</b>
	60E9



## Cutting Bit for Silicone, Cone

- carbide cutting bit with special tothing for silicone, conical shape with round point, for soft plastics and silicone, long tool life
- PU = 1 piece

	<b>Item-No.</b>
	60E11



## Cutting Bit for Silicone

- carbide cutting bit with special tothing for silicone, bulb shape with round point, for soft plastics and silicone, long tool life
- PU = 1 piece

	<b>Item-No.</b>
	60E12



## Cutting Bit for Silicone

- carbide cutting bit with special tothing for silicone, slim cone shape with round point, for soft plastics and silicone, long tool life
- PU = 1 piece

	<b>Item-No.</b>
	60E13



## Spindle Holder

- for clamping of polishing wheels, wire wheels and cutting wheels
- PU = 1 piece

	Item-No.
	60E14



## Carbon Polishing Wheel

- for clamping on spindle holder item 60E14, for cutting of metal
- PU = 10 pcs

	Item-No.
	60E15



## Fleece Polishing Wheel

- for clamping on spindle holder item 60E14, for fine machining of RTV silicone plasticine and PVC
- PU = 10 pcs

	Item-No.
	60E16



## Polishing Wheel

- for clamping on spindle holder item 60E14
- for fine machining of RTV silicone plasticine, PVC and metal
- max. revolution: 10.000 RPM
- PU = 10 pcs

	Item-No.
	60E17



## Wire Wheel

- for clamping on spindle holder item 60E14, for machining of foam and for roughening of silicone
- PU = 6 pcs

	<b>Item-No.</b>
	60E18



## Sanding Cylinder

- with rubber coating, Ø 9 mm, for clamping of sanding sleeves item 60E20
- PU = 1 piece

	<b>Item-No.</b>
	60E19



## Sanding Sleeves

- or clamping on sanding cylinder item 60E19, for sanding of plastic, plaster and silicone
- PU = 100 pcs

	<b>Item-No.</b>
	60E20



## Plaster Cutter, Ball

- cone shape with point, rough tothing, for sanding works on plastic, metal and plaster
- PU = 1 piece

	<b>Item-No.</b>
	60E6



## Plaster Cutter, Cone

- cone shape with round point, rough tothing, for rough sanding works on plastic, metal and plaster
- PU = 1 piece

Item-No.

60E7



## Plaster Cutter, Pointed

- carbide cutting bit, slim conical shape with point, fine cross tothing, for fine sanding works on plastic, metal and plaster
- PU = 1 piece

Item-No.

60E8



## Sanding Bit for Silicone

- for fine machining of silicone surfaces
- max. revolution: 15.000 RPM
- PU = 6 pcs

Item-No.

60E4



## Polishing Brush

- in connection with polishing paste item 60E21, for polishing of acrylics
- PU = 1 piece

Item-No.

60E5



## Polishing Paste

- for use with polishing brush item 60E5, for polishing of acrylic nails
- PU = 1 piece

kg	Item-No.
0,23	60E21



## Sand Paper Holder

- for clamping of sand paper
- PU = 1 piece

Item-No.
60E3



## Sand Paper

- for sand paper holder item 60E3, grit 240, for fine sanding of surfaces made of plastic, metal and plaster
- PU = 10 m

Item-No.
60E22



## Silicone Work Station

### Features

- dust suction unit
- 3 drawers
- 4 sockets
- connections for gas, electro and compressed air
- front table for suction mouth
- flexible work lamp
- adjustable working height

### Technical data

- dimensions L x W x H: 1240 x 620 x 820-950 mm
- scope of adjustment: 6 adjustments à 25 mm
- weight: approx. 130 kg
- colour: RAL 5000 blue

Item-No.

90E50

Abb. ähnlich



## Electric Silicone Roller

- for mixing of large quantities of silicone, for rolling out big silicone sheets from 0,1 to 20 mm thickness
- soft-touch-control-panel integrated in the casing

### Technical data

- digital display of roller gap: 0 - 20 mm
- max. roller sheet dimension: 650 x 720 mm
- dimensions of rollers: Ø 190 mm x 720 mm
- roller gap: 0 - 20 mm, continuously manually adjustable
- dimensions of machine L x W x H: 1100 x 650 x 1300 mm
- digital display: 0,1 mm accuracy
- roller speed: 0 - 29 RPM
- motor power: 1,5 kW
- motor speed: 1660 RPM
- output power: 496 Nm
- power supply: 230 V - 50/60 Hz
- nominal current: 13,9 A / 8.34 A
- control voltage: 24 V DC
- reduction gear: 57,53
- colour: RAL 7035, light grey
- weight: 300 kg net

Item-No.

90E30



Manufactured according to valid VDE standards and CE guidelines.

## Electric Silicone Roller (115V / 60 Hz)



- for mixing of large quantities of silicone, for rolling out big silicone sheets from 0,1 to 20 mm thickness
- soft-touch-control-panel integrated in the casing

### Technical data

- digital display of roller gap: 0 - 20 mm
- max. roller sheet dimension: 650 x 720 mm
- dimensions of rollers: Ø 190 mm x 720 mm
- roller gap: 0 - 20 mm, continuously manually adjustable
- dimensions of machine L x W x H: 1100 x 650 x 1300 mm
- digital display: 0,1 mm accuracy
- roller speed: 0 - 29 RPM
- motor power: 1,5 kW
- motor speed: 1660 RPM
- output power: 496 Nm
- power supply: 115 V - 60 Hz
- nominal current: 13,9 A / 8.34 A
- control voltage: 24 V DC
- reduction gear: 57,53
- colour: RAL 7035, light grey
- weight: 300 kg net

Item-No.

90E30/115

 Triple-protection of installed safety switches allows to open the rollers automatically. Manufactured according to valid VDE standards and CE guidelines.

## Electric Silicone Roller with liquid cooler



- for mixing of large quantities of silicone, with liquid cooler
- for rolling out big silicone sheets from 0,1 mm to 40 mm thickness
- soft-touch-control-panel

### Technical data

- roller gap: 0,1 - 40 mm, continuously electrically adjustable
- dimensions of rollers: Ø 270 mm x 720 mm
- dimensions of machine L x W x H: 1291 x 755 x max. 1631 mm (max. height incl. touchscreen panel)
- digital display: 0,1 mm accuracy
- roller speed: 0 - 20 RPM
- power of motor: 2,2 kW
- motor speed: 1440 RPM
- power output: 853 Nm
- power supply: 230 V - 50 Hz - 20 A
- nominal current: 5,5 A
- control voltage: 24 V DC
- reduction gear: 74,87
- colour: RAL 7035 light grey
- cooler: 24 VDC at 14,1A (nominal current) 200 W
- cooling range: 7 °C up to 20 °C
- weight: 670 kg net

Item-No.

90E31

 Triple-protection of installed safety switches allows to open the rollers automatically. Manufactured according to valid VDE standards and CE guidelines, with TÜV certificate of the TÜV North Group.



## Electric Silicone Roller with liquid cooler (115 V / 60 Hz)

- for mixing of large quantities of silicone, with liquid cooler
- for rolling out big silicone sheets from 0,1 mm to 40 mm thickness
- soft-touch-control-panel

### Technical data

- roller gap: 0,1 - 40 mm, continuously electrically adjustable
- dimensions of rollers: Ø 270 mm x 720 mm
- dimensions of machine L x W x H: 1291 x 755 x max. 1631 mm (max. height incl. touchscreen panel)
- digital display: 0,1 mm accuracy
- roller speed: 0 - 20 RPM
- power of motor: 2,2 kW
- motor speed: 1440 RPM
- power output: 853 Nm
- power supply: 115 V / 60 Hz
- nominal current: 5,5 A
- control voltage: 24 V DC
- reduction gear: 74,87
- colour: RAL 7035 light grey
- cooler: 24 VDC at 14,1A (nominal current) 200 W
- cooling range: 7 °C up to 20 °C
- weight: 670 kg net

Item-No.

90E31/115



Triple-protection of installed safety switches allows to open the rollers automatically. Manufactured according to valid VDE standards and CE guidelines, with TÜV certificate of the TÜV North Group.



## Electric Silicone Roller without liquid cooler

- for mixing of large quantities of silicone
- for rolling out big silicone sheets from 0,1 mm to 40 mm thickness
- soft-touch-control-panel

### Technical data

- roller gap: 0,1 - 40 mm, continuously electrically adjustable
- dimensions of rollers: Ø 270 mm x 720 mm
- dimensions of machine L x W x H: 1291 x 755 x max. 1631 mm (max. height incl. touchscreen panel)
- digital display: 0,1 mm accuracy
- roller speed: 0 - 20 RPM
- power of motor: 2,2 kW
- motor speed: 1440 RPM
- power output: 853 Nm
- power supply: 230 V - 50 Hz
- nominal current: 5,5 A
- control voltage: 24 V DC
- reduction gear: 74,87
- colour: RAL 7035 light grey
- weight: approx. 500 kg net

Item-No.

90E32/1523



Triple-protection of installed safety switches allows to open the rollers automatically. Manufactured according to valid VDE standards and CE guidelines, with TÜV certificate of the TÜV North Group.



## Electric Silicone Roller without liquid cooler (115 V / 60 Hz)

- for mixing of large quantities of silicone
- for rolling out big silicone sheets from 0,1 mm to 40 mm thickness
- soft-touch-control-panel

### Technical data

- roller gap: 0,1 - 40 mm, continuously electrically adjustable
- dimensions of rollers: Ø 270 mm x 720 mm
- dimensions of machine L x W x H: 1291 x 755 x max. 1631 mm (max. height incl. touchscreen panel)
- digital display: 0,1 mm accuracy
- roller speed: 0 - 20 RPM
- power of motor: 2,2 kW
- motor speed: 1440 RPM
- power output: 853 Nm
- power supply: 115 V - 60 Hz
- nominal current: 5,5 A
- control voltage: 24 V DC
- reduction gear: 74,87
- colour: RAL 7035 light grey
- weight: approx. 500 kg net

Item-No.

90E32/1611



Triple-protection of installed safety switches allows to open the rollers automatically. Manufactured according to valid VDE standards and CE guidelines, with TÜV certificate of the TÜV North Group.



## Mechanical Silicone Roller

- for mixing of small quantities of silicone and for rolling of silicone sheets
- equipped with 2 manually operated chromed rollers, rotating in opposite direction

### Technical data

- dimensions: L x W x H: 500 x 350 x 290 mm
- diameter of rollers: 100 mm
- length of rollers: 350 mm
- roller gap: 0 - 5 mm, manually adjustable in 13 different steps
- colour of metal parts: RAL 7035 light grey
- weight: approx. 60 kg net

Abb. ähnlich

Item-No.

90E35



## Digester

- high pressure device for polymerisation of acrylics e. g. fingernails
- incl. 1 m charging hose
- material: coated aluminum
- capacity: 4,0 liter
- outer dimensions: H 22 cm x Ø 24,5 cm
- inner dimensions: H 13,5 cm x Ø 20,5 cm
- operating temperature: 45 °C
- weight: 3,11 kg
- PU = 1 piece

Item-No.

70E2



## Aluminum Mould

- for fingers
- PU = 1 piece

	Item-No.
	50E10



## Aluminum Mould

- for hands
- closing through sixfold screw connection
- material saving by reducing the abdoform volume
- PU = 1 piece

	Item-No.
	50E14



## Transfer Apparatus for Forefoot Prostheses

- suitable for the alignment and the fabrication of forefoot prostheses

Weight	Item-No.
8,5 kg	90E21



## Clamping Adapter for Threaded Rods

- for item 90E21

Weight	Item-No.
0,26 kg	90E21/1



## Screw Adapter

- for item 90E21

Weight	Item-No.
0,08 kg	90E21/2



## Vacuum Adapter

- for item 90E21

Weight	Item-No.
0,03 kg	90E21/3



## Spare Feet

- for item 90E21

Weight	Item-No.
0,03 kg	90E21/4



# Adhesives



# Adhesives

Depending on the processing technique, the material used and the desired result, there is a large variety of high-quality adhesives, which are used in modern orthopaedic technology and orthopaedic shoe technology. Contrary to many industrial adhesives which are used in industrial manufacture, the adhesives used for orthopaedic applications must fulfill a maximum amount of adhesion power, curing speed and cutaneous tolerance in the hardened state.





Via our homepage you can download the corresponding safety data sheets for products, which have to be labeled according to the Ordinance on Hazardous Substances, or we would be glad to forward them upon written request or requests made by phone.

Please always store adhesives in a separate storage for hazardous substances, the optimum temperatures are approx. 20 °C. At temperatures below 15 °C, there is the danger of adhesive thickening or agglomerations (especially in the case of toluene-free adhesives) which will make the adhesive unusable. Caution: Contrary to adhesives, hardening agents, primers etc. have to be stored at low temperatures.



Please ensure sufficient aeration at the workstation because of the solvents and pay attention to the processing and storage instructions on the containers of the product.

# Adhesives

The variety of different materials and fields of application on the one hand represents high demands on the adhesive or the adhesives. At the same time, the glues may not be harmful to either the environment or the health of the user.

**We distinguish between the following types of adhesives:**

- General purpose adhesives – such as Listra-Fix-Adhesive (will glue any material except PVC) or Colle de Cologne
- Fast adhesive – Ortec-Kontaktkleber (contact adhesive) – Vulkofest-Schnellkleber (fast adhesive) Forte-Schnellkleber (fast adhesive) which do not bond PVC but anything else which produces dust during grinding
- Special plastic-bonding adhesive – such as SynticTotal for PE, PP and also PVC

In difficult cases, we recommend the use of aids such as hardening agents or primers.

## Safety instructions

Adhesives, solvents, thinners etc. contain hazardous substances. Please always pay attention to the specific product safety data sheet! The amount stored in the workshop should not exceed the daily consumption. In addition, pay attention to a sufficient aeration of the workstation and use an appropriate PPE (rubber gloves, plastic apron, and safety goggles).

On the following pages you will find a number of different adhesives with different drying and waiting times. Depending on the adhesive, the drying time amounts from 3 to 30 minutes. As a rule, you do not have to stick the parts together immediately after the drying time. The so-called waiting time ranges from the end of the drying time until the last possibility to obtain a good bonding result. Depending on the adhesive, this time may range from 3 minutes up to several hours.

- Grind the parts to be bonded and remove the grinding dust thoroughly.
- Clean greasy surfaces with acetone or thinner prior to bonding.
- Make sure that the surfaces to be bonded are dry.
- Each adhesive can be activated both at warm and at cold temperatures.
- The pressing power has to be adjusted according to the material to be bonded: The softer the material, the lesser the pressure to be used and vice versa.
- Each adhesive can immediately be processed (grinded, milled etc.) after the pressing.



## Listra Fix Adhesive

clear neoprene adhesive, suitable for bonding of all materials except PVC, toluene-free, excellent spreading characteristics

Setting time: 5-30 minutes

Drying time: 5 minutes



kg	PU	Item-No.
0,850	1 tin	118P12/1
4,000	1 can	118P12/4
10,000	1 can	118P12/10

 Especially recommended for bonding of materials in transparent or bright colours. Invisible glue line especially on light coloured EVA sheets.



## „Ortec“ Glue

contact adhesive for all materials, also PP and PE, but not soft PVC, phenol- and toluene-free

Setting time: 10-60 minutes

Drying time: 5 minutes



kg	PU	Item-No.
0,850	1 can	118P18/1
4,000	1 can	118P18/4

 Very suitable for allergic persons.



## „Vulkofest-96“ Adhesive

yellow neoprene adhesive, suitable for bonding of all materials except PVC, non irritant, toluene-free

Setting time: 15-120 minutes

Drying time: 15 minutes



kg	PU	Item-No.
4,000	1 can	118P10



## Forte Rapid Adhesive

yellow neoprene adhesive, suitable for bonding of all materials except PVC, high temperature-proof, toluene-free

Setting time: 5-20 minutes

Drying time: 5 minutes



kg	PU	Item-No.
0,850	1 tin	118P13/1
10,000	1 can	118P13/10

Due to the extremely fast crystallization process you can continue to work on the workpiece without having to adhere to any repose periods. The heat resistance is sufficient enough to start turning, milling or grinding at once. The adhesion force rises continually and will reach its maximum value after 1-2 days.



## Listra Top Adhesive

clear neoprene adhesive, suitable for all materials, except soft PVC, colour: bright, high temperature-proof, toluene-free

Setting time: 7-40 minutes

Drying time: 7 minutes



kg	PU	Item-No.
0,850	1 tin	118P17/1
4,0	1 can	118P17/4

Due to the extremely fast crystallization process you can continue to work on the workpiece without having to adhere to any repose periods. The heat resistance is sufficient enough to start turning, milling or grinding at once. The adhesion force rises continually and will reach its maximum value after 1-2 days. Please order the thinner for rapid glue item 116P10.



## Sealing Resin Compact Glue

gel-like consistency, very versatile applications in orthopaedic technology



kg	PU	Item-No.
1,0	1 tin	112P38

Please order the matching hardener item 112P33 or hardener paste item 112P17.



## Syntic-Total Adhesive

yellow polyurethane contact glue, suitable for bonding of PVC and other materials, toluene-free

Setting time: 5-30 minutes

Drying time: 5 minutes

kg	PU	Item-No.
0,090	1 tube	118P11/T
0,850	1 tin	118P11/1
4,000	1 can	118P11/4



Syntic-Total will glue chrome leather if used with our hardener item 118P23. Together with Rehagol item 118P22 you will be able to glue soft rubber, TR (technical rubber) and latex.



## Colle de Cologne Adhesive

universal adhesive for all materials, also PVC, toluene-free

Setting time: 5-30 minutes

Drying time: 5 minutes



kg	PU	Item-No.
0,850	1 tin	118P14/1
4,000	1 can	118P14/4



By adding our 5-10 % of our hardener item 118P23 you can substantially improve the resistance to chemicals and the heat stability.



## Pattex Power Adhesive

neoprene rapid glue, suitable for all materials except PVC, toluene-free

Setting time: 10-15 minutes

Drying time: 10 minutes



kg	PU	Item-No.
0,650	1 tin	118P9/1
4,500	1 can	118P9/5
24,000	1 can	118P9/24



## Dilution for Pattex Adhesive

to dilute and dissolve Pattex glues



Liter	PU	Item-No.
5,0	1 can	116P4/5



## Rubber Solution

special glue, based on natural rubber, for all kinds of sewing work with leather, does not gum up the needle or block the thread channel



Setting time: 5-20 minutes

Drying time: 5 minutes

kg	PU	Item-No.
0,580	1 tin	118P1



## Solvent „C“

for reinforcement fleece item 111P11, setting time approx. 30 minutes



Liter	PU	Item-No.
1,000	1 tin	116P5/1
5,000	1 can	116P5/5



## Multi Purpose Glue (Plaster Insulating Varnish)

transparent, for all materials especially suitable for all leather finishings, toluene-free



kg	PU	Item-No.
0,850	1 can	118P25/1
4,000	1 can	118P25/5

While still moist, the parts are pressed onto each other (pressing time 20 minutes). High resistance to heat and oil. Due to the high flexibility of the glue film brittleness as well as premature aging of the adhesion connection is avoided.



## Spray-On Adhesive

suitable for all materials and reinforcement tasks with carbon or glass fiber

Setting time: 10-50 minutes

Drying time: 10 minutes



Net content	Item-No.
500 ml	118P28



## Spray-On Adhesive „Special“

aerosol glue, sprayable, suitable for carbon fiber, synthetic materials (PE and PP), styrofoam, felt, textiles, cork, wood, paper and cardboard, foam materials and rubber, mineral and glass wool, will also glue sheet metal

Setting time: up to 10 seconds

Drying time: up to 15 minutes



Liter	PU	Item-No.
0,500	1 tin	118P38



## Super Glue

low viscosity cyanoacrylate rapid glue, for silicone bonding and other synthetic materials



kg	PU	Item-No.
0,020	1 bottle	118P29



Please always wear protective goggles (PPE) when working with rapid glue.



## Super Glue, elastic

cyanoacrylate rapid glue, for elastic/flexible silicone bonding and other synthetic materials



kg	PU	Item-No.
0,020	1 bottle	118P31



Please always wear protective goggles (PPE) when working with rapid glue.



## UHU®-Hard



Net content	PU	Item-No.
35 ccm	1 tube	118P30



## UHU®-Plus Adhesive 300

two components adhesive, for strong bonds (bond and hardener)



Bond	Hardener	PU	Item-No.
8,5 g	6,5 g	1 set (2 tubes)	118P32



## Loctite® 241

for screw retention, medium tight, up to thread size M12



Net content	PU	Item-No.
50 ml	1 bottle	118P35



## Loctite® 601

for screw retention, very tight, up to thread size M12



Net content	PU	Item-No.
50 ml	1 bottle	118P36



## Loctite® 245

for screw retention, medium tight, up to thread size M80



Net content	PU	Item-No.
50 ml	1 tube	118P37



## Special Lubricant

Molycote-Paste DX, white, for all accessible gearwheels and joint axles



Net content	PU	Item-No.
0,050 kg	1 tube	112P37/50
1,000 kg	1 tin	112P37/1

## „Aquilim“ Adhesive 250

solvent-free dispersion adhesive, for bonding of all materials (water-based), storage at 20° C (sensitive to frost)



kg	PU	Item-No.
0,500	1 tin	118P21/05
3,000	1 can	118P21/3



Please always reactivate the glue film with an infrared lamp at 60-80° C (20-90 seconds) or with a quartz radiator (3-5 seconds).

## Aquilim Spray Adhesive Set

Spray gun set for dispersion adhesives



- even, time-saving and economical application of adhesives to large areas; for insole- and socket production
- including spray gun for connection to the adhesive container by means of compressed air hose ("bag-in-box-system")
- additional pressure container not necessary
- the Aquilim Spray Adhesive Set works with max. operation pressure of 0,8 bar and can be connected to an air pressure system such as item 169P60
- a filter pressure reducer such as item 169P84/... may be necessary

The Spray Adhesive Set consists of:

- spray gun
- material hose
- pressure hose and 10 kg Aquilim 315

PU = 1 set

Item-No.
118P21/10



### Application example

Spray on Aquilim 315 very thinly; heat the EVA-parts to 130 °C in the oven (no waiting time); then let them cool down in a vacuum press (e.g. item 168P500).

All parts can be ground or cut immediately. Of course, bonding without heat is possible as well. In this case, the drying time takes 15 – 120 minutes.



## Primer for PUR

pre-coat inter alia for „Ortec“ glue, „Vulkofest 96“ adhesive, Colle de Cologne, for reworking PUR-materials



Liter	PU	Item-No.
0,085	1 bottle	118P24/85
0,250	1 tin	118P24/250



## Hardener (Colourless Cross Linker)

to improve heat resistance of the bond seam, enhance chemical resistance, enforce adhesive strength on oily materials, chrome leather and PUR-materials, colourless



Liter	PU	Item-No.
0,050	1 bottle	118P23

Optimally suited for bondings with Vulkofest-96 item 118P10, Syntic-Total item 118P11 and Colle de Cologne item 118P4. Please add 5-8 percent in volume or 4-8 percent in weight to the glue immediately before processing it.



## Rehagol-Halogenate (PU Primer)

chlorinated precoating for thermo rubber soles and materials containing latex



Liter	PU	Item-No.
0,085	1 bottle	118P22

Optimally suited for bondings with Vulkofest-96 item 118P10 and Colle de Cologne item 118P4.



## R + L Solvent, Based on Acetone

detergent and solvent, dilution for Syntic-Total item 118P11 and Multi Purpose Glue item 118P25



Liter	PU	Item-No.
1,000	1 bottle	116P2/1
5,000	1 can	116P2/5

When using R + L solvent, please always wear safety gloves item 12P8 and also personal protective equipment (PPE), such as protective goggles and protective clothing.



## Thinner for Rapid Glue

toluene-free, thinner for item 118P1, 118P10, 118P12, 118P13, 118P14, 118P18



Liter	PU	Item-No.
1,000	1 can	116P10/1
5,000	1 can	116P10/5

When using Thinner for Rapid Glue, please always wear safety gloves item 12P8 and also personal protective equipment (PPE), such as protective goggles and protective clothing.



## „deSohl“-Soluble

for leather cleaning, removes shoe soles, etches TR (technical rubber) sole materials



Liter	PU	Item-No.
1,000	1 can	116P20/1
5,000	1 can	116P20/5

When using „deSohl“-Soluble, please always wear safety gloves item 12P8 and also personal protective equipment (PPE), such as protective goggles and protective clothing.



## Thinner „Drawin 28 A“ (All-Purpose Thinner)



Liter	PU	Item-No.
10,000	1 can	116P1
1,000	1 tin	116P1/1

When using Thinner „Drawin 28 A“, please always wear safety gloves item 12P8 and also personal protective equipment (PPE), such as protective goggles and protective clothing.



## Lamellar Shellac

mix with spirit, use as leather lacquer coat, mixture and concentration can be individually determined

kg	PU	Item-No.
0,500	1 pack	117P1



## Lignum Glue

parchment glue, cold glue

kg	PU	Item-No.
800 g	1 tin	118P4



## Wood Filler

to fill and correct flaws and cracks in wood



kg	PU	Item-No.
0,810	1 tin	117P2



## Acrylic Lacquer Spray

suitable for retroactive colourisation and varnishing of prosthetic sockets and evening-ups of cosmesis



Liter	Colour	PU	Item-No.
0,400	dark brown	1 tin	117P5
0,400	peach coloured	1 tin	117P7
0,500	clear/bright	1 tin	117P8



## Listra Acrylic Lacquer

self cross-linking PU-dispersion acrylic lacquer on water-soluble base, reduced thinner content, silk-lustre, low odour (lacquer for the inside and outside of sockets)



Liter	Colour	PU	Item-No.
1,000	colourless	1 tin	117P4/1

## Celluloid Shavings

coarsely ground, to dissolve use R + L solvent item 116P2, for celluloid varnish (plaster insulation varnish)



kg	PU	Item-No.
1,0	1 bag	118P8A

## „Brillant“ Wax Block



for application use the Horsehair Bristle item 161P15 (Multi Purpose Cleaning Out Machine item 96M6)  
PU = 1 piece

kg	Colour	Item-No.
approx. 0,100	black	113P15/S
approx. 0,100	blue	113P15/B
approx. 0,100	dark brown	113P15/DBR
approx. 0,100	medium brown	113P15/MBR
approx. 0,100	colourless	113P15/FL
approx. 0,100	golden brown	113P15/GBR
approx. 0,100	negroid	113P15/NE
approx. 0,100	red brown	113P15/RBR
approx. 0,100	tabacco	113P15/TA

## „Hooco“ Colour Wax Block



for application use the Horsehair Bristle item 161P15 (Multi Purpose Cleaning Out Machine item 96M6)  
PU = 1 piece

kg	Colour	Item-No.
approx. 0,100	blue	113P16/B
approx. 0,100	dark brown	113P16/DBR
approx. 0,100	light brown	113P16/HBR
approx. 0,100	mahagony	113P16/MA
approx. 0,100	medium brown	113P16/MBR
approx. 0,100	black	113P16/S
approx. 0,100	red	113P16/R
approx. 0,100	negro	113P16/NE
approx. 0,100	no colour	113P16/FL
approx. 0,100	tabacco	113P16/TA

## Rilsan® Sintering Powder



minimum heating temperature of metal pieces 260-360° C

PU = 1 pack

kg	Colour	Item-No.
5,000	white	112P29/W
5,000	blue	112P29/B
5,000	red	112P29/R
5,000	beige	112P29/BG



## Sintering Powder „Orthosint“

minimum heating temperature of metal pieces depending on their thickness  
180-220° C, very suitable for sintering of aluminum pieces

PU = 1 pack

kg	Colour	Item-No.
5	peach	112P30/H

Other RAL coded colours are available, subject to a minimum order of 20 kg!



## PVC Shrink Tubing

for corrosion protection, peach, soft PVC, thermoplastic cover material for steel straps, shrinking approx. 50 %

PU = 50 meters

Before shrinking	After shrinking	Item-No.
14 mm	7 mm	110P16/7
24 mm	12 mm	110P16/12
32 mm	16 mm	110P16/16
60 mm	30 mm	110P16/30

# Plaster



# Plaster

Many individual patient solutions in orthopaedic technology, such as the prosthetic socket construction or the taking of an imprint for an orthosis begin with taking plaster casts (negative model) and the manufacture of positive models. In order to obtain an optimal result for the later fit and thus acceptance by the patient as well, manual dexterity and the use of high-quality materials is indispensable!

Plaster bandages as well as model plaster and plaster of Paris are used. Synthetic plasters are mainly used in moldmaking. It is important that the plaster used has a porous structure but is still finegrained. Good drying characteristics are also important to allow a rapid exact and safe subsequent processing.





On the following pages you will find our diversified range of products such as plaster bandages, model plaster and synthetic plaster as well as the required equipment for processing, e. g. separator, thinner, indelible pencils and abrasive media. You can download the corresponding safety data sheets for products that have to be labeled via our homepage, or we would be glad to forward them upon written request or requests made by phone.



Plasters have the tendency to absorb humidity and must therefore be stored in reclosable, moisture-tight receptacles only. Any absorbed humidity prolongs the setting time. Plaster silos are most suitable. If at all, plaster drawers should only be used for storing plasters with a high consumption. In this case, the absorption of humidity can be prevented by using a foldable cover. Please clean all containers with a dry cloth prior to refilling them with plaster. Even the least remaining plaster powder may "inoculate" the new plaster and modify its properties.



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## Stucco

universal applications, for pouring out negative plaster moulds  
PU = 1 bag



Content	Item-No.
25 kg	112P42/25
40 kg	112P42/40

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## Modelling Cast „Alabaster“

milled into fine powder, higher strength, high degree of whiteness and  
pureness

PU = 1 bag



Content	Item-No.
25 kg	112P43/25
40 kg	112P43/40



## Cellacast Xtra

synthetic dressing material for light support bandages with high stability, horizontally and diagonally stretchable, glass fiber fabric impregnated with polymethane resin

PU = 10 pcs in box

Length x Width	Colour	Item-No.
3,6 m x 50 mm	creme	99P40/5
3,6 m x 75 mm	creme	99P40/7,5
3,6 m x 100 mm	creme	99P40/10
3,6 m x 125 mm	creme	99P40/12,5
3,6 m x 50 mm	blue	99P41/5
3,6 m x 75 mm	blue	99P41/7,5
3,6 m x 100 mm	blue	99P41/10
3,6 m x 125 mm	blue	99P41/12,5
3,6 m x 50 mm	orange	99P42/5
3,6 m x 75 mm	orange	99P42/7,5
3,6 m x 100 mm	orange	99P42/10
3,6 m x 125 mm	orange	99P42/12,5
3,6 m x 50 mm	yellow	99P43/5
3,6 m x 75 mm	yellow	99P43/7,5
3,6 m x 100 mm	yellow	99P43/10
3,6 m x 125 mm	yellow	99P43/12,5
3,6 m x 50 mm	green	99P44/5
3,6 m x 75 mm	green	99P44/7,5
3,6 m x 100 mm	green	99P44/10
3,6 m x 125 mm	green	99P44/12,5



The dressings are breathable, x-ray transparent and water resistant in their cured state.



## Nobaform® Plaster Bandage

fixing plaster bandages, made of cotton fabric with alabaster cast, rolled, individually packed

PU = 10 rolls per box

Length x Width	Item-No.
3 m x 60 mm	99P3/6
3 m x 80 mm	99P3/8
3 m x 100 mm	99P3/10
3 m x 120 mm	99P3/12
3 m x 150 mm	99P3/15
3 m x 200 mm	99P3/20



Sehr gute Modellierfähigkeit, kurze Abbindezeit sowie sehr gute Nachbearbeitungsmöglichkeit.



## Nobaform® Wide Longuette

fixing plaster bandages, made of cotton fabric with alabaster cast, rolled

PU = 1 roll in a box

Length x Width	Item-No.
5 m x 400 mm	99P3/40
5 m x 600 mm	99P3/60



For special casts, such as plaster cast embeddings.



## Nobaform® Plaster Bandage

four-fold plaster bandage, made of cotton fabric with alabaster cast, rolled

PU = 1 piece in dispenser box

Length x Width	Item-No.
20 m x 10 cm	99P30/10
20 m x 12 cm	99P30/12
20 m x 15 cm	99P30/15
20 m x 20 cm	99P30/20



For the manufacture of plaster splints of all kinds.



## Cellona® Plaster Bandage

PU = 10 rolls per box, rolled, multi-packed

Length x Width	Item-No.
2 m x 80 mm	99P4/8
2 m x 100 mm	99P4/10
2 m x 120 mm	99P4/12
2 m x 150 mm	99P4/15
2 m x 200 mm	99P4/20
3 m x 80 mm	99P5/8
3 m x 100 mm	99P5/10
3 m x 120 mm	99P5/12
3 m x 150 mm	99P5/15
3 m x 200 mm	99P5/20
4 m x 80 mm	99P6/8
4 m x 100 mm	99P6/10
4 m x 120 mm	99P6/12
4 m x 150 mm	99P6/15
4 m x 200 mm	99P6/20



Cellona plaster bandages soak up moisture rapidly and evenly after only short immersion times. The finished dressing is resilient early on and safe for transport after 30 minutes. Completely cured after 24 hours.

# Plaster



## Cellona® Plaster Bandage

four-fold plaster bandage

PU = 1 piece in dispenser box

Length x Width	Item-No.
20 m x 20 cm	99P7/20



## Cellona® POP Bandage Off-Cuts

PU = 5 kg

Width	Item-No.
20 cm	99P8



## Ruhstern®-Elastic

elasticated POP bandage, 2 m unstretched, approx. 4 m stretched, rolled

PU = 10 rolls per box, individually packed

Length x Width	Item-No.
2 m x 80 mm	99P2/8
2 m x 100 mm	99P2/10
2 m x 120 mm	99P2/12
2 m x 150 mm	99P2/15
2 m x 240 mm	99P2/24
2 m x 350 mm	99P2/35



Suitable for making plaster casts.



## Latex Insulating Bag

for insulation of damp plaster design models for pre-preg processes and the making of plaster casts

PU = 1 piece

W x L	Size	Item-No.
4 x 17 cm	small	119P2/S
7,5 x 20 cm	medium	119P2/M
10 x 27,5 cm	large	119P2/L



## Cellona® Skin Protection Cream

use during plaster cast works

PU = 1 tube

Liter	Item-No.
0,100	99P15



Oil in water emulsion with oil restoring ingredients.



## Plaster Insulating Cream

non-irritant, colorless

PU = 1 tin

kg	Item-No.
1,000	113P9



## Skin Protection Stockinette Set

for trans-femoral amputees, consists of body and stump protection stockinette, 100% cotton

PU = 1 package with 6 sets

Width x Length	Item-No.
approx. 30 x 16 cm	99P10/1
approx. 30 x 32 cm	99P10/2
approx. 38 x 16 cm	99P10/3
approx. 38 x 32 cm	99P10/4



## Skin Protection Stockinette

for hip disarticulation amputees, 100% cotton

PU = 1 package with 6 sets

Width	Item-No.
approx. 30 cm	99P11/1
approx. 38 cm	99P11/2

## Body Protection Stockinette

to put under plaster, very elastic, colour: natural, material: 95 % cotton, 5 % elasthane

PU = 1 roll (25 m)



Width	Item-No.
9 cm	99P12/9
15 cm	99P12/15
20 cm	99P12/20



## Undershirt for Spinal Orthoses

T-Shirt



The undershirt is used exclusively as underwear for spinal orthoses and furthermore also to isolate the skin surface during the casting process (plaster cast) for spinal orthoses.

### Indication

- material interactions/allergies to the orthosis material
- friction and correction pressure
- hyperhidrosis
- temperature regulation

### Contraindication

- material interactions/allergies
- do not wear directly on injured, irritated or damaged skin

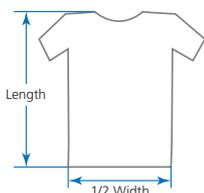
### Material

- 100% combed cotton, Sanitized® treated

\*width = 1/2 hem width, when stretched, length of the undershirt becomes shorter

PU = 1 piece

Size	Length	Width*	Item-No.
XS	63 cm	27 cm	145T20/XS
S	66 cm	28 cm	145T20/S
M	69 cm	30 cm	145T20/M
L	72 cm	32 cm	145T20/L
XL	75 cm	34 cm	145T20/XL
XXL	77 cm	37 cm	145T20/XXL
XXX	79 cm	40 cm	145T20/XXX



Sanitized® prevents the development of bacteria! Sanitized® free of silver ions!



## Undershirt for Spinal Orthoses

tanktop



The undershirt is used exclusively as underwear for spinal orthoses and furthermore also to isolate the skin surface during the casting process (plaster cast) for spinal orthoses.

### Indication

- material interactions/allergies to the orthosis material
- friction and correction pressure
- hyperhidrosis
- temperature regulation

### Contraindication

- material interactions/allergies
- do not wear directly on injured, irritated or damaged skin

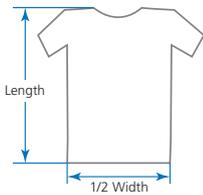
### Material

- 100% combed cotton, Sanitized® treated

\*width = 1/2 hem width, when stretched, length of the undershirt becomes shorter

PU = 1 piece

Size	Length	Width*	Item-No.
XS	63 cm	27 cm	145T21/XS
S	66 cm	28 cm	145T21/S
M	69 cm	30 cm	145T21/M
L	72 cm	32 cm	145T21/L
XL	75 cm	34 cm	145T21/XL
XXL	77 cm	37 cm	145T21/XXL
XXXL	79 cm	40 cm	145T21/XXX



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## Undershirt for Spinal Orthoses

with sleeves



The undershirt is used exclusively as underwear for spinal orthoses and furthermore also to isolate the skin surface during the casting process (plaster cast) for spinal orthoses.

### Indication

- material interactions/allergies to the orthosis material
- friction and correction pressure
- hyperhidrosis
- temperature regulation

### Contraindication

- material interactions/allergies
- do not wear directly on injured, irritated or damaged skin

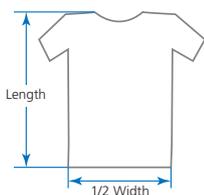
### Material

- 100% combed cotton, Sanitized® treated

\*width = 1/2 hem width, when stretched, length of the undershirt becomes shorter

PU = 1 piece

Size	Length	Width*	Item-No.
XS	63 cm	27 cm	145T22/XS
S	66 cm	28 cm	145T22/S
M	69 cm	30 cm	145T22/M
L	72 cm	32 cm	145T22/L
XL	75 cm	34 cm	145T22/XL
XXL	77 cm	37 cm	145T22/XXL
XXXL	79 cm	40 cm	145T22/XXX



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## Undershirt for Spinal Orthoses

without sleeves



The undershirt is used exclusively as underwear for spinal orthoses and furthermore also to isolate the skin surface during the casting process (plaster cast) for spinal orthoses.

### Indication

- material interactions/allergies to the orthosis material
- friction and correction pressure
- hyperhidrosis
- temperature regulation

### Contraindication

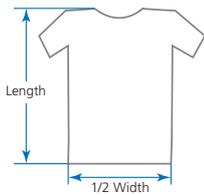
- material interactions/allergies
- do not wear directly on injured, irritated or damaged skin

### Material

- 100 % combed cotton, Sanitized® treated

\*width = 1/2 hem width, when stretched, length of the undershirt becomes shorter

PU = 1 piece



Size	Length	Width*	Item-No.
XS	63 cm	27 cm	145T23/XS
S	66 cm	28 cm	145T23/S
M	69 cm	30 cm	145T23/M
L	72 cm	32 cm	145T23/L
XL	75 cm	34 cm	145T23/XL
XXL	77 cm	37 cm	145T23/XXL
XXX	79 cm	40 cm	145T23/XXX

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## Disposable Latex Gloves

made of natural latex, non-sterile, powdered

PU = 100 pcs



Size	Item-No.
S = 6 - 7	12P17/S
M = 7 - 8	12P17/M
L = 8 - 9	12P17/L



## Disposable Latex Gloves IC

made of natural latex, non-sterile, eudermic, powder free, with synthetic internal coating

PU = 100 pcs

Size	Item-No.
S = 6 - 7	12P18/S
M = 7 - 8	12P18/M
L = 8 - 9	12P18/L
XL = 9 - 10	12P18/XL



## Disposable Vinyl Gloves

- for processing pre-preg
- made of vinyl, non-sterile, powder free
- skin-friendly
- suitable for latex allergic persons
- PU = 100 pcs

Size	Item-No.
S = 6 - 7	80C12/S
M = 7 - 8	80C12/M
L = 8 - 9	80C12/L
XL = 9 - 10	80C12/XL

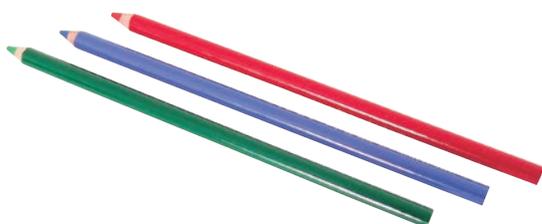


## Indelible Pencil

for marking wet plaster casts and plaster molds

PU = 12 pcs

Colour	Item-No.
blue	99P20



## Grease Pencil

for marking wet plaster casts and plaster molds or very smooth materials

PU = 1 box à 12 pcs

Colour	Item-No.
red	99P21/R
blue	99P21/B
green	99P21/G



## Plaster Apron

made of nylon fabric with doublesided PVC cover, acid resistant, very tear resistant, with brass eyelets and tie belts

PU = 1 piece

Size	Item-No.
85 x 100 cm	12P20



## Vermiculite Castfiller

expands, to mix with plaster, colour: sand

PU = 100 liter bag

Grit	Item-No.
2 - 3 mm	99P60



## Perlite Castfiller

granulate, pouring density approx. 80kg/m<sup>3</sup>, colour: white to grey-white

PU = 100 liter bag

Grit	Item-No.
0 - 3 mm	99P65



## Podotrack®

patented treadmarker tool for quick foot pressure analysis

treadmarker tool for early detection of foot pressure problems, such as for example flat-, splay-, hollow- or club feet, usable for diabetic or rheumatic foot syndromes

for diagnostic documentation by professionals in orthopaedics, podiatry or sports science

simple and hygienic use, transportable and usable anywhere; for static and dynamic foot pressure analyses

PU = 100 pcs.

Item-No.
98P8

Supplied with precise instruction manual.



Please follow the instruction manual!

## Foot Imprinting Kit



includes ink roller, ink, circumference marker, foot imprinting pad (100 sheets) and rubber plate

PU = 1 set

	Item-No.
	98P4

## Foot Imprinting Paper

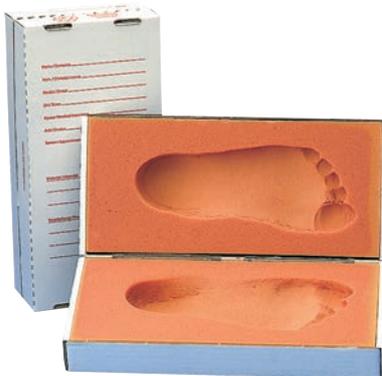


paper 80 g/sqm, white

PU = pad with 100 sheets

Dimensions	Item-No.
380 x 165 mm	98P5/G
400 x 140 mm	98P5

## Foot Impression Foam, Normal Size



CFC-free

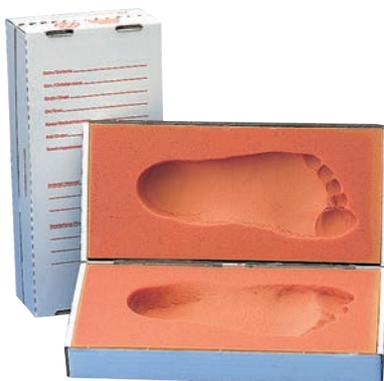
PU = 50 pairs

Foam size l x w x h	Item-No.
310 x 150 x 37 mm	98P1

## Foot Impression Foam, Extra Large

CFC-free

PU = 25 pairs



Foam size l x w x h	Item-No.
335 x 160 x 115 mm	98P2



## Small Parts

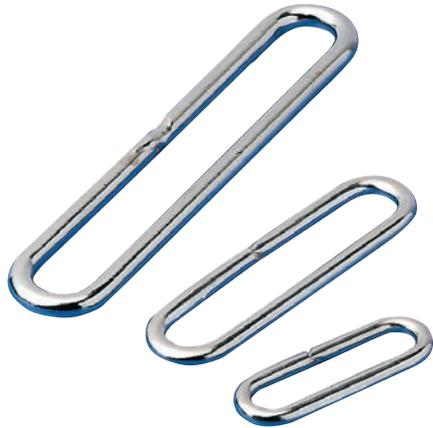


# Small Parts

Our efforts to offer you a variety of high-quality materials are carried on beyond classic and many new materials up to the so-called small parts and accessories.

Orthopaedic technicians and truss makers will find a wide variety of products indispensable for the manufacture of prostheses, orthoses and bandages on the following sides. This will start with the production process of products for the individual manufacturing of bodices, corsetry and seat pans (e. g. buckles, straps and latches).



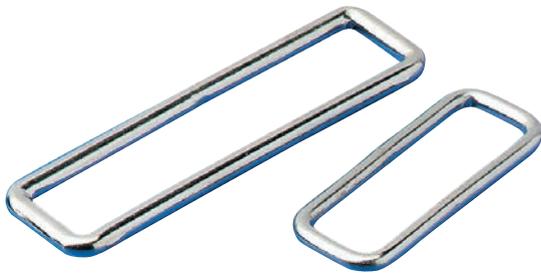


## Steel Loop, oval

nickel plated, welded

PU = 20 pcs and 100 pcs

Diameter	Wire thickness	Item-No.
18 mm	1,8 mm	42P2/18
20 mm	1,8 mm	42P2/20
25 mm	2,0 mm	42P2/25
30 mm	2,0 mm	42P2/30
35 mm	2,0 mm	42P2/35
45 mm	2,4 mm	42P2/45
50 mm	2,6 mm	42P2/50



## Steel Loop, rectangular

nickel plated, welded, strong version

PU = 20 pcs and 100 pcs

Diameter	Wire thickness	Item-No.
20 mm	2,0 mm	42P6/20
25 mm	2,4 mm	42P6/25
30 mm	2,5 mm	42P6/30
35 mm	2,5 mm	42P6/35
40 mm	3,0 mm	42P6/40
45 mm	2,6 mm	42P6/45
50 mm	3,0 mm	42P6/50



## Steel Loop with Roller, oval

nickel plated, welded

PU = 20 pcs and 100 pcs

Diameter	Item-No.
30 mm	42P3/30
35 mm	42P3/35
45 mm	42P3/45
50 mm	42P3/50



## Steel Loop

nickel plated, welded

PU = 20 pcs and 100 pcs

Diameter	Item-No.
16 mm	42P4/16
18 mm	42P4/18
20 mm	42P4/20
22 mm	42P4/22
25 mm	42P4/25
30 mm	42P4/30



## Steel Loop, halfround

nickel plated, welded

PU = 20 pcs and 100 pcs

Diameter	Item-No.
12 mm	42P5/12
22 mm	42P5/22



## Single Prong Buckle with Roller

nickel plated, welded, idle roller

PU = 20 pcs and 100 pcs

Diameter	Item-No.
12 mm	40P3/12
14 mm	40P3/14
16 mm	40P3/16
18 mm	40P3/18
20 mm	40P3/20
22 mm	40P3/22
25 mm	40P3/25
30 mm	40P3/30
40 mm	40P3/40
50 mm	40P3/50



## Single Prong Buckle with Roller

nickel plated, welded, with idle roller, loop and rivet hole

PU = 20 pcs and 100 pcs

Diameter	Item-No.
12 mm	40P7/12
16 mm	40P7/16
18 mm	40P7/18
20 mm	40P7/20



## Two Prong Buckle

nickel plated, cast

PU = 20 pcs and 100 pcs

Diameter	Item-No.
25 mm	40P8/25
30 mm	40P8/30



## Two Prong Buckle with Prong Cover

nickel plated

PU = 20 pcs and 100 pcs

Diameter	Item-No.
20 mm	40P18/20
25 mm	40P18/25



## Three Prong Buckle with Prong Cover

nickel plated

PU = 20 pcs and 100 pcs

Diameter	Item-No.
35 mm	40P19/35
45 mm	40P19/45



## Clip Buckle with Loop

suspender buckle, „Miralloy“-coating (nickel free)

PU = 20 pcs and 100 pcs

Diameter	Item-No.
20 mm	44P1/20
25 mm	44P1/25
30 mm	44P2
35 mm	44P3



## Clip Buckle without Loop

„Miralloy“-coating (nickel free)

PU = 20 pcs and 100 pcs

Diameter	Item-No.
30 mm	44P7



## Clamp Buckle with Loop

nickel plated

PU = 20 pcs and 100 pcs

Diameter	Item-No.
23 mm	44P8/23
25 mm	44P8/25



## Clamp Buckle with Teeth

nickel plated

PU = 20 pcs and 100 pcs

Diameter	Item-No.
35 mm	44P5/35
45 mm	44P5/45



## Steel Hook with 2 Holes

suitable for item 44P5, nickel plated

PU = 20 pcs and 100 pcs

Width	Item-No.
20 mm	44P6



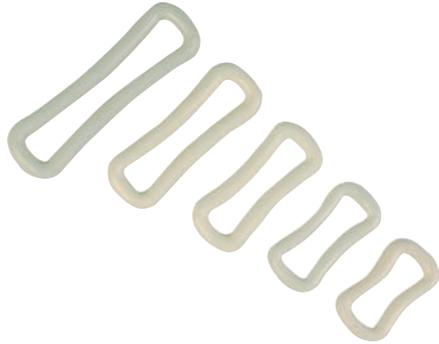
## Suspender Clip

iron, galvanized, nickel free

PU = 50 pcs

Diameter	Item-No.
18 mm	44P12/18
30 mm	44P12/30

# Small Parts



## Plastic Loop, oval

natural colour

PU = 20 pcs and 100 pcs

Diameter	Item-No.
20 mm	42P9/20
25 mm	42P9/25
30 mm	42P9/30
38 mm	42P9/38
50 mm	42P9/50



## Plastic Loop

with plastic strap, one hole

PU = 20 pcs and 100 pcs

Diameter	Colour	Item-No.
25 mm	white	43P3/25
35 mm	white	43P3/35
50 mm	white	43P3/50
50 mm	black	43P3/50S



## Plastic Loop

with plastic strap, one hole

PU = 20 pcs and 100 pcs

Diameter	Colour	Item-No.
25 mm	red	43P6/25R
25 mm	blue	43P6/25B
25 mm	black	43P6/25S
35 mm	red	43P6/35R
35 mm	blue	43P6/35B
35 mm	neon green	43P6/35G
35 mm	neon pink	43P6/35P
35 mm	black	43P6/35S
50 mm	red	43P6/50R
50 mm	blue	43P6/50B
50 mm	neon green	43P6/50G
50 mm	neon pink	43P6/50P



## Steel Loop

with plastic strap, one hole, colour: white

PU = 20 pcs and 100 pcs

Diameter	Item-No.
20 mm	43P5/20
25 mm	43P5/25
30 mm	43P5/30
35 mm	43P5/35



## Steel Loop

with plastic strap, one hole

PU = 20 pcs and 100 pcs

Diameter	Colour	Item-No.
25 mm	red	43P7/25R
25 mm	blue	43P7/25B
35 mm	red	43P7/35R
35 mm	blue	43P7/35B
50 mm	red	43P7/50R
50 mm	blue	43P7/50B
50 mm	black	43P7/50S



## Steel Loop

with plastic strap, rivet hole and roller, colour: white

PU = 20 pcs and 100 pcs

Diameter	Item-No.
35 mm	43P8/35
50 mm	43P8/50

# Small Parts



## Clip Closure, Plastic

use with item 55T18/25W

PU = 50 pcs

Diameter	Colour	Item-No.
25 mm	white	44P11
25 mm	black	44P11/S



## Clip Closure, Plastic

colour: black

PU = 50 pcs and 100 pcs

Diameter	Item-No.
25 mm	44P15/25
30 mm	44P15/30
40 mm	44P15/40
50 mm	44P15/50

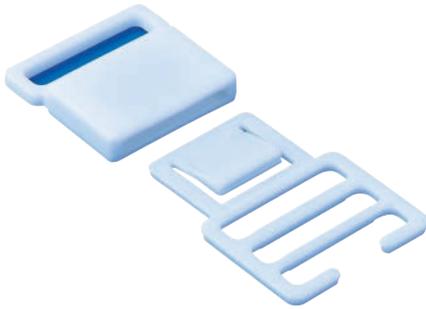


## Clip Closure, Plastic

two parts

PU = 50 pcs and 100 pcs

Diameter	Colour	Item-No.
30 mm	black	48P1/30S
50 mm	white	48P1/50W
50 mm	black	48P1/50S



## Clip Closure, Plastic

two parts, colour: white

PU = 50 pcs and 100 pcs

Diameter	PU	Item-No.
25 mm	50 pcs	48P15
20 mm	100 pcs	48P20



## Lace and Cord Stop, Plastic

PU = 50 pcs and 100 pcs

Opening	Colour	Item-No.
8 mm	white	48P10



## Steel Rivet

with flat head

PU = 1000 pcs

Diameter x Length	Item-No.
3,0 x 15 mm	36P1/3x15
3,0 x 20 mm	36P1/3x20
3,0 x 25 mm	36P1/3x25
4,0 x 20 mm	36P1/4x20
4,0 x 25 mm	36P1/4x25
4,0 x 30 mm	36P1/4x30



## Steel Rivet

with flat head, zinc plated

PU = 1000 pcs

Diameter x Length	Item-No.
3,0 x 15 mm	36P5/3x15
3,0 x 20 mm	36P5/3x20



## Copper Rivet

with flat head

PU = 1000 pcs

Diameter x Length	Item-No.
2,6 x 6 mm	36P2/2x6
2,6 x 8 mm	36P2/2x8
2,6 x 10 mm	36P2/2x10
3,0 x 6 mm	36P2/3x6
3,0 x 12 mm	36P2/3x12
3,0 x 15 mm	36P2/3x15
3,0 x 20 mm	36P2/3x20
3,0 x 25 mm	36P2/3x25
4,0 x 20 mm	36P2/4x20
4,0 x 25 mm	36P2/4x25
4,0 x 30 mm	36P2/4x30



Suitable washers for copper rivets:

- 3 x 12 mm, steel, item 35P2/3x12
- 3 x 14 mm, steel, item 35P2/3x14
- 4 x 14 mm, steel, item 35P2/4x14



## Aluminum Rivet

with flat head

PU = 1000 pcs per box

Diameter x Length	Item-No.
2,5 x 6 mm	36P3/2x6
2,5 x 10 mm	36P3/2x10
3,0 x 6 mm	36P3/3x6
3,0 x 15 mm	36P3/3x15
3,0 x 16 mm	36P3/3x16
3,0 x 20 mm	36P3/3x20
3,0 x 25 mm	36P3/3x25
4,0 x 30 mm	36P3/4x30



## Steel Nail

PU = 1 kg

Diameter x Length	Item-No.
1,4 x 25 mm	37P1



## Steel Pin

PU = 500 g

Diameter x Length	Item-No.
0,7 x 30 mm	37P5



## Round Head Nut for Protector Screw

aluminum

PU = 20 pcs and 100 pcs

Thread diameter x Outer diameter	Item-No.
M3 x 10 mm	34P8



## Knurled Nut

steel, for Testing Screw 30P14

PU = 20 pcs and 100 pcs

Thread diameter x Head diameter	Item-No.
M3 x 12 mm	34P6

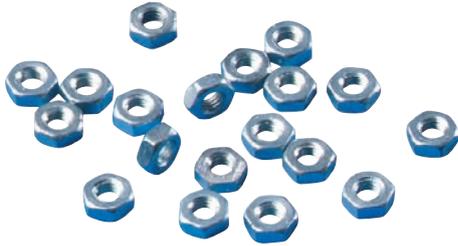


## Testing Screw/Counter Sink Head

steel, zinc plated

PU = 100 pcs

Thread diameter x Length	Item-No.
M3 x 16 mm	30P14



## Hexagonal Nut

for Testing Screw item 30P14, steel, zinc plated

PU = 100 pcs

Thread diameter	Item-No.
M3	34P10



## T-Nut

steel, zinc plated, for thermoplastics

PU = 20 pcs and 100 pcs

Thread diameter x Head diameter x Length	Item-No.
M10 x 25 x 12 mm	34P4/10
M4 x 15 x 6 mm	34P4/4
M5 x 17 x 8 mm	34P4/5
M6 x 17 x 8 mm	34P4/6
M8 x 22 x 11 mm	34P4/8

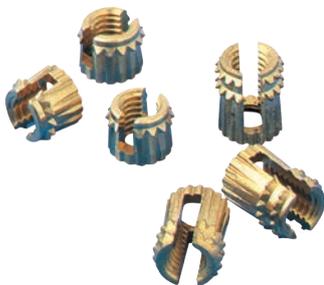


## Insert Nut

brass, knurled, slotted, for thermoplastics

PU = 20 pcs and 100 pcs

Thread diameter x Head diameter x Length	Item-No.
M4 x 7 x 4 mm	34P3



## Insert Nut

brass, knurled, slotted, toothed, for thermoplastics

PU = 20 pcs and 100 pcs

Thread diameter x Head diameter x Length	Item-No.
M4 x 6,5 x 5 mm	34P2/4
M4 x 6,5 x 8 mm	34P2/8



## Insert Nut

brass, knurled, slotted, for thermoplastics

PU = 20 pcs and 100 pcs

Thread diameter x Head diameter x Length	Item-No.
M4 x 5 x 8 mm	34P1



## Insert Nut

made of „V2A“-steel, knurled, with head

PU = 20 pcs and 100 pcs

Thread diameter x Head diameter x Length	Item-No.
M4 x 10 x 4 mm	34P5



## Steel Screw „Hessing“

nickel plated steel, slotted round head screw

PU = 20 pcs and 100 pcs

Thread diameter x Head diameter x Length	Item-No.
M3 x 8 x 10 mm	30P11/3
M3,5 x 8 x 10 mm	30P11/3,5
M4 x 10 x 8 mm	30P11/4
M4 x 10 x 10 mm	30P11/4A
M4 x 10 x 12 mm	30P11/4B
M4 x 10 x 14 mm	30P11/4C
M4,5 x 11 x 12 mm	30P11/4,5
M5 x 12 x 15 mm	30P11/5



## Plastic Bolt

made of POM Ppolyacetal), natural colour, size = head diameter

PU = 10 pcs

Size	Length	Thread size	Item-No.
10 mm	6 mm	M4	30P21/4x6
10 mm	7 mm	M4	30P21/4x7
10 mm	9 mm	M4	30P21/4x9



## Plastic (POM) Insert Nut

POM (polyacetal), for bolt item 30P21, colour: white

PU = 10 pcs

Head diameter	Thread size	Item-No.
10 mm	M4	30P22/4



## Plastic (PE) Washer

colour: white, PE (polyethylene)

PU = 10 pcs

Diameter	Bore diameter	Item-No.
25 mm	4 mm	30P20/4
32 mm	5 mm	30P20/5



## Eyelet

nickel plated steel, size = outer diameter x bore diameter x thickness in mm

PU = 250 pcs and 1000 pcs

Size	Colour	Item-No.
7 x 4 x 4,5 mm	nickel plated	60P4
8 x 4 x 5 mm	nickel plated	60P5
9 x 4 x 5 mm	nickel plated	60P6/VN
10 x 5 x 5,5 mm	nickel plated	60P8
12 x 6 x 6 mm	nickel plated	60P10



Die item W60P4, W60P6, W60P8 and W60P10



## Eyelet

brass, lacquered, natural or nickel plated  
size = outer diameter x bore diameter x thickness in mm

PU = 250 pcs and 1000 pcs

Size	Colour	Item-No.
9 x 4 x 5 mm	grey	60P7/G
9 x 4 x 5 mm	natural	60P7/BLA
9 x 4 x 5 mm	peach	60P7/H
9 x 4 x 5 mm	black	60P7/S
9 x 4 x 5 mm	white	60P7/W
9 x 4 x 5 mm	nickel plated	60P7/VN
10 x 5 x 5,5 mm	natural	60P9/BLA
10 x 5 x 5,5 mm	peach	60P9/H
10 x 5 x 5,5 mm	nickel plated	60P9/VN
15 x 8 x 6 mm	nickel plated	60P12



Die item W60P7, W60P9 and W60P12



## Base Ring for Eyelet

PU = 250 pcs and 1000 pcs

Eyelet	Colour	Item-No.
60P10	steel nickel plated	61P10
60P12	brass nickel plated	61P12
60P6, 60P7	brass nickel plated	61P7/VN
60P8, 60P9	brass nickel plated	61P9/VN
60P7	brass	61P7/BLA



Die item W60P7, W60P9, W60P10 and W60P12

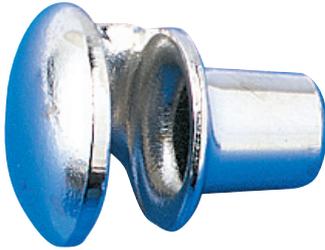


## Die for Hook

2-parts, insertion of lacing hoops, Eyelet Punch Press item 168P1

PU = 1 set

Eyelet	Item-No.
60P4	W60P4
60P5	W60P5
60P6, 60P7	W60P6
60P8, 60P9	W60P8
60P10	W60P10
60P12	W60P12



## Lacing Hook

steel, nickel plated or lacquered

PU = 250 pcs and 1000 pcs

Head size	Colour	Item-No.
6,5 x 8 mm	nickel plated	62P1
9,0 x 10 mm	peach	62P2/H
9,0 x 10 mm	nickel plated	62P5



## Die for Lacing Hook

2-parts, insertion of lacing hoops, Eyelet Punch Press item 168P1

PU = 1 set

Lacing hook	Item-No.
62P1	W62P1
62P2	W62P5
62P5	W62P5



## Snap Fastener, 4-parts

brass, nickel plated

PU = 200 pcs

Head diameter	Item-No.
13 mm	64P12
15 mm	64P13



## Die for Snap Fastener

4-parts, insertion of lacing hoops, Eyelet Punch Press item 168P1

PU = 1 piece

Snap rivet	Item-No.
64P12	W64P12
64P13	W64P13



## Metal Lace Tip

steel, nickel-plated, for Crimping Pliers item 171P14

PU = 500 pcs or 1000 pcs

L x W	Item-No.
10 x 4 mm	67P2/10x8



## Lace Tip Pliers

with insert for metal lace tip item 62P2/10x8

PU = 1 piece

Version	Item-No.
with insert	171P14



## Tubular Rivet with Open Stem

steel, nickel plated with open stem

size = cap diameter x shank diameter x lug

PU = 500 pcs

Size	Description	Item-No.
6 x 3 x 3 mm	tubular rivet cap	66P3/6-O
6 x 2,5 x 6 mm	tubular rivet stem	66P3/6-U
9 x 4 x 3 mm	tubular rivet cap	66P3/9-O
10 x 3 x 10,5 mm	tubular rivet stem	66P3/9-U
13 x 4,5 x 7 mm	tubular rivet cap	66P3/13-O
12 x 3,5 x 11 mm	tubular rivet stem	66P3/13-U



Die item W66P3/13 and W66P3/9



## Tubular Rivet with Open Stem

brass, nickel plated with open stem  
size = head diameter x shank diameter x lug

PU = 500 pcs

Size	Description	Item-No.
11 x 4 x 4,5 mm	tubular rivet cap	66P9/11-O
10 x 3,2 x 9 mm	tubular rivet stem	66P9/11-U
13 x 4,5 x 6 mm	tubular rivet cap	66P9/13-O
11,5 x 3,5 x 12 mm	tubular rivet stem	66P9/13-U

 Die item W66P3/13.



## Die for Tubular Rivets with Open Stem

2-parts, steel, nickel plated, insertion of tubular rivets with open stem, Eyelet Punch Press item 168P1

PU = 1 set

Tubular rivet	Item-No.
66P3/9	W66P3/9
66P3/13, 66P9/13	W66P3/13



## Tubular Rivet with Closed Stem

steel, nickel plated with closed stem  
size = head diameter x shank diameter x lug

PU = 500 pcs

Size	Description	Item-No.
7 x 4 x 3 mm	tubular rivet cap	66P4/7-O
7 x 3 x 7 mm	tubular rivet stem	66P4/7-U
8 x 4 x 4 mm	tubular rivet cap	66P4/8-O
8 x 3,5 x 9 mm	tubular rivet stem	66P4/8-U
9 x 4 x 4 mm	tubular rivet cap	66P4/9-O
9 x 3,5 x 10 mm	tubular rivet stem	66P4/9-U
10 x 4 x 5 mm	tubular rivet cap	66P4/10-O
10 x 3,5 x 9 mm	tubular rivet stem	66P4/10-U
11 x 4 x 4 mm	tubular rivet cap	66P4/11-O
11 x 3 x 10 mm	tubular rivet stem	66P4/11-U
13 x 4,5 x 7 mm	tubular rivet cap	66P4/13-O
13 x 3,5 x 11 mm	tubular rivet stem	66P4/13-U

 Die item W66P4/13, W66P4/7 and W66P4/9

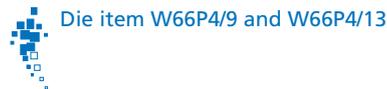


## Tubular Rivet with Closed Stem

brass, nickel plated with closed stem size = head diameter x shank diameter x lug

PU = 500 pcs

Size	Description	Item-No.
9 x 3,5 x 4 mm	tubular rivet cap	66P7/9-O
9 x 3 x 9 mm	tubular rivet stem	66P7/9-U
13 x 4,5 x 7 mm	tubular rivet cap	66P7/13-O
13 x 3,5 x 13 mm	tubular rivet stem	66P7/13-U



## Die for Tubular Rivets with Closed Stem



2-parts, steel, nickel plated, insertion of tubular rivets with closed stem, Eyelet Punch Press item 168P1

PU = 1 set

Tubular rivet	Item-No.
66P4/7	W66P4/7
66P4/9, 66P7/9	W66P4/9
66P4/13, 66P7/13	W66P4/13

## Rubber Cord



soft version

PU = per running meter

Diameter	Colour	Item-No.
24 mm	black (stiffer)	138P2
24 mm	red (softer)	138P5

## Plantar Flexion Bumper



tapered 15/22 mm, soft version, for Single-Axis-Foot Adapter

PU = 1 piece

Length	Colour	Item-No.
59 mm	red	2P36



## Lateral Belt Retainer Plate with Screw

for belt attachment

PU = 1 piece

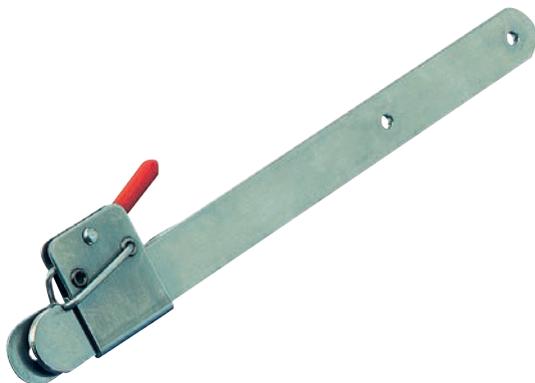
Neck height	Item-No.
8 mm	8P14



## Stud Rivet

plastic, for belt attachment, stem length 10 mm  
Size = head diameter x lug diameter x stem diameter

Size	Lug height	Item-No.
9 x 5 x 4 mm	3 mm	8P16/5
12 x 7 x 5 mm	5 mm	8P16/7
15 x 9 x 5 mm	6 mm	8P16/9

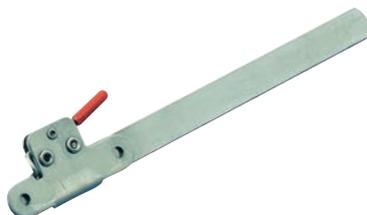


## Bar Lock

stainless steel, fixating corset clasp

PU = 1 piece

Length	Side	Item-No.
165 mm	left	24P5/KL
165 mm	right	24P5/KR
180 mm	left	24P5/ML
180 mm	right	24P5/MR
200 mm	left	24P5/NL
200 mm	right	24P5/NR



## Baby Bar Lock

stainless steel, fixating corset clasp for babies

PU = 1 piece

Length	Side	Item-No.
130 mm	right	24P5A

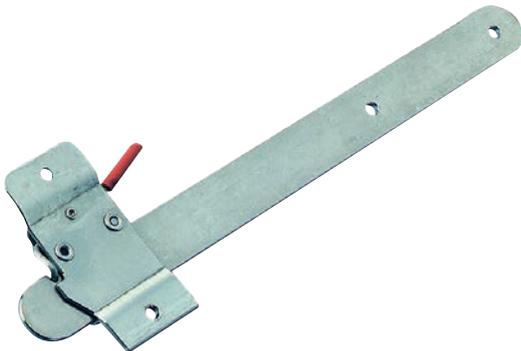


## Replacement Cap

for bar lock item 24P5

PU = 1 piece

Colour	Item-No.
red	24P9

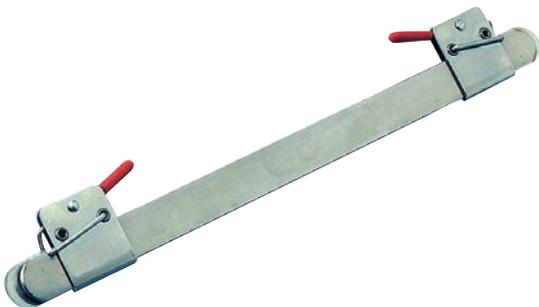


## Bar Lock

„V2A“-steel with vertical locking mechanism

PU = 1 piece

Length	Side	Item-No.
180 mm	left	24P16/ML
180 mm	right	24P16/MR
200 mm	left	24P16/NL
200 mm	right	24P16/NR



## Bar Lock

„V2A“-steel with 2 locks

PU = 1 piece

Length	Item-No.
220 mm	24P17



## Stabilizing Shackle, flat

„V2A“-steel

PU = 1 piece

Shackle length x Thickness	Item-No.
165 x 3 mm	24P7



## Reclining Shackle

„V2A“-steel

PU = 1 pair

Length x Thickness	Item-No.
150 x 2 mm	24P8/K2
150 x 3 mm	24P8/K3
180 x 2 mm	24P8/N2
180 x 3 mm	24P8/N3



## Elastic Joints for Orthoses

Elastic Joints are very durable, multifunctional in applications and movement supporting joints for orthoses. They are available in three different sizes (S, M and L) and each in four different designs (neutral = straight, flex 75° shore, flex 85° shore, flex 95° shore).

### Function

- variable application
- durometers can be combined
- simple handling

### Consisting of

- 2 joints incl. screws and padding
- 2 dummies with nails

Size	Durometer	Length	Item-No.
S	Neutral	32 mm	10J1/S
M	Neutral	38 mm	10J1/M
L	Neutral	45 mm	10J1/L
S	Flex 75° Shore	32 mm	11J1/S
M	Flex 75° Shore	38 mm	11J1/M
L	Flex 75° Shore	45 mm	11J1/L
S	Flex 85° Shore	32 mm	12J1/S
M	Flex 85° Shore	38 mm	12J1/M
L	Flex 85° Shore	45 mm	12J1/L
S	Flex 95° Shore	32 mm	14J1/S
M	Flex 95° Shore	38 mm	14J1/M
L	Flex 95° Shore	45 mm	14J1/L



## Elastic Joint Dummy

- spacer for deep drawing
- consisting of 2 dummies incl. nails

Size	Length	Item-No.
S	34 mm	10J1/SE2
M	40 mm	10J1/ME2
L	47 mm	10J1/LE2



## Dorsal Stopper for Elastic Joint

- accessory
- infinitely variable dorsal stopper
- to inhibit the plantar flexion in the upper ankle
- suitable for deepdrawn or laminated leg orthoses

Material	Item-No.
Steel zinc-plated + elastomers	13J1



## Screws and Nuts for Elastic Joint

- consists of 10 screws, 10 threaded bushings

Size	Item-No.
S	10J1/SE10
M/L	10J1/ME10

# Walking Aids and Rehabilitation Technology



# Walking Aids and Rehabilitation Technology

“To be a support for someone” to us primarily means to offer your help to someone. Apart from this social gesture, to help and support another person, there are also some very practical sources of support which will make our daily routines easier and contribute to staying mobile and to participate actively in life.



## Functionality of a cane or a walking stick

A supporting tube or rod with a horizontal contact surface, which is encompassed by the hand in order to unburden the corresponding side of the body. A cane or walking stick may be used temporarily or permanently for light walking disabilities or coordination disorders.

## Functionality of a forearm crutch

On top of the supporting tube and the handle, the walking aid will have a sleeve or bracket which is positioned at the forearm. Thereby, hand and shoulder muscles will be relieved. A forearm crutch may be used temporarily or permanently for medium to severe walking disabilities or coordination disorders.

## Bucket-Seat Module System



the „robust“ construction, made of semi-hard sheet aluminum AL MG 1 with a 3 mm wall thickness and a good tensile strength, is considerably lighter in weight than a PE bucket-seat

Size = width x depth x back height

PU = 1 piece

Size	Adjustable back rest	Item-No.
350 x 380 x 450 mm	no	300M1/1
400 x 440 x 500 mm	no	300M1/2
450 x 480 x 550 mm	no	300M1/3
350 x 380 x 450 mm	yes	301M1/1
400 x 440 x 500 mm	yes	301M1/2
450 x 480 x 550 mm	yes	301M1/3

Special sizing available upon request.



Very easy to work with.

## Neoprene Seat Pillow



prefabricated, suitable for the bucket-seat module system

Outer size = width x depth x back height

PU = 1 piece

Outer size	Item-No.
350 x 380 x 450 mm	310M1/1
400 x 440 x 500 mm	310M1/2
450 x 480 x 550 mm	310M1/3

# Walking Aids & Rehabilitation Technology



## Vacuum Molding Cushion

for the exact molding of body contours

PU = 1 piece

Application	Item-No.
seat up to 39 cm	300P11
seat up to 45 cm	300P10
back up to 39 cm	300P21
back up to 45 cm	300P20



## Vacuum Pump

for Vacuum Molding Cushion, incl. valve adapter and valve

PU = 1 piece

Item-No.
300P30



## Cane

with „Derby“ handle, lacquered beech wood, size = cane diameter

PU = 1 piece

Size	Colour	M/w	Item-No.
approx. 20 mm	d-brown	women	73P7/BR
approx. 20 mm	black	women	73P7/S
approx. 23 mm	d-brown	men	73P2/BR
approx. 23 mm	black	men	73P2/S

# Walking Aids & Rehabilitation Technology



## Cane

„Jambis“ imitation (flamed beech wood), colour: brown, size = cane diameter

PU = 1 piece

Size	Hand grip	M/w	Item-No.
20 mm	derby	women	73P14/BR
20 mm	round	women	74P14/BR
23 mm	derby	men	73P12/BR



## Aluminum Cane

with anatomically shaped handle, size = cane diameter, height adjustable

PU = 1 piece

Size	Colour	Side	Item-No.
approx. 20 mm	bronzed	right	73P1/R
approx. 20 mm	bronzed	left	73P1/L
approx. 20 mm	silver	right	73P11/R
approx. 20 mm	silver	left	73P11/L



## Cane

black lacquered beech wood with rubber stopper, with nickel plated handle, size = cane diameter

PU = 1 piece

Size	Colour	M/w	Length	Item-No.
15 mm	black	women	94 cm	74P15/D
18 mm	black	men	94 cm	74P15/H

# Walking Aids & Rehabilitation Technology



## Crutch & Cane Rubber Tip

colour: blackPU = 10 pcs

Inner diameter	Size	Item-No.
8 mm	05	76P1/05
10 mm	04	76P1/04
12 mm	02	76P1/02
14 mm	00	76P1/00
16 mm	0	76P1/0
18 mm	1	76P1/1
20 mm	2	76P1/2
22 mm	3	76P1/3



## Crutch & Cane Rubber Tip

colour: brown

PU = 10 pcs

Inner diameter	Item-No.
18 mm	76P7/18



## Wrist Loop

for cane, made of nylon, braided

PU = 1 piece

Colour	Item-No.
brown	78P10/BR
black	78P10/S



## Forearm Crutch for Children

made of aluminum with push button adjustment and swivel nut, soft handle

Length: handle to floor 61-81 cm

Weight limit: 100 kg

PU = 1 pair or 25 pairs per box

Diameter	Colour	Item-No.
approx. 20 mm	blue	71P16/B
approx. 20 mm	red	71P16/R

# Walking Aids & Rehabilitation Technology



## Forearm Crutch

made of aluminum with push button adjustment and swivel nut, max. load 140 kg, suction capsule made of natural rubber with a steel insert

Length: handle to floor 76-96 cm

PU = 1 pair

Diameter	Colour	Item-No.
20 mm	blue	71P10/B
20 mm	blackberry	71P10/BRO
20 mm	grey	71P10/G
20 mm	lilac	71P10/L
20 mm	red	71P10/R
20 mm	black	71P10/S
20 mm	turquoise	71P10/TÜR



## Rubber Tip

for item 71P10, suction capsule made of natural rubber with a steel insert

PU = 10 pcs

Inner diameter	Colour	Item-No.
16 mm	grey	76P9/G
16 mm	blue	76P9/B
16 mm	blackberry	76P9/BRO
16 mm	lilac	76P9/L
16 mm	red	76P9/R
16 mm	turquoise	76P9/TÜR
16 mm	black	76P9/S



## Elbow Rest Cushion Cover

for item 71P10, with velvet lining

PU = 1 piece

Colour	Item-No.
black	76P21/S

# Walking Aids & Rehabilitation Technology



## Crutch Handle Cushion Cover

soft padding for hand grip, made of Neoprene

PU = 1 piece

Version	Colour	Item-No.
zip fastener	black	76P23/R
velcro strap fastener	black	76P23



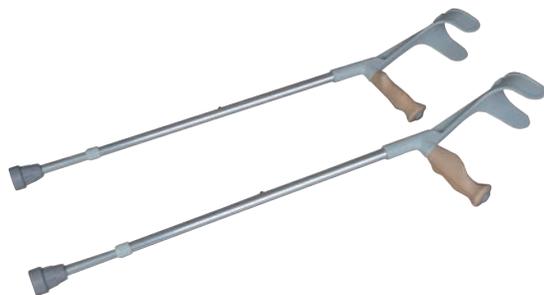
## Forearm Crutch

steel, extra long (10 cm), with wing nut, plastic arm rest and handle, max. load 130 kg, suction capsule made of natural rubber with a steel insert

length: handle to floor 73-93 cm

PU = 1 pair

Diameter	Colour	Item-No.
18 mm	grey	71P4



## Forearm Crutch

produced according to DIN 11334-1, max. load: 135 kg, convenient use and maximum grip security with excellent user comfort, with exchangeable, radially adjustable, ergonomic wooden grips, push button adjustment and plastic cuffs, colour: grey, back side reflectors, slip proof suction caps made of natural rubber, wedged aluminium tube in plastic socket to prevent premature loosening, ordering by pairs (right and left) only

Length: handle to floor 76 - 96 cm

PU = 1 pair

Diameter	Use	Item-No.
18 mm	left	71P11/L
18 mm	right	71P11/R

# Walking Aids & Rehabilitation Technology



## Adhesive Crutch Tip „Ruhstern®“

antiskid, also suitable for slightly angular fitting, polyurethane base over a joint buckler connected to a synthetic material top

PU = 2 pcs

Inner diameter	Item-No.
16 mm	77P16/16
18 mm	77P16/18
20 mm	77P16/20
22 mm	77P16/22



## Antiskid Crutch & Cane Tip

suction capsule made of natural rubber with a steel insert, antiskid with a broad bearing area

PU = 10 pcs

Inner diameter	Colour	Item-No.
16 mm	black	76P3/16
18 mm	black	76P3/18
16 mm	grey	76P5/16
18 mm	grey	76P5/18



## Crutch & Cane Tips

- integrated hard metal spikes provide safe support on snow and ice
- simply put on the cap when using crutches/cane on dry ground or inside
- colour: grey

PU = 10 pcs

Inner diameter	Size	Item-No.
16 mm	0	77P11/0
18 mm	1	77P11/1
20 mm	2	77P11/2
Replacement cap		77P11/E

# Walking Aids & Rehabilitation Technology



## Crutch & Cane Tips (Icepick)

- can be used as a regular tip and as an „icepick“ because of four very pointed spikes which can be released with a lever
- to retract the spikes, simply flip lever back up
- tip comes with three different inserts to fit a cane diameter of 16-22 mm

PU = 1 piece

Inner diameter	Colour	Item-No.
16 - 22 mm	grey	77P15
Replacement cap	grey	77P15/E



## Quickstep-Shoe Chains

with 150 claws

PU = 1 pair

Shoe size	Item-No.
35 - 46	77P10



## Reflector

in a synthetic material frame with a hole

PU = 1 piece

Diameter	Colour	Item-No.
60 mm	red	60F1
60 mm	yellow	60F2



## Special Anti-Decubitus Toilet Seat

made of wood, with a 2,5 cm padding layer, germ proof lacquer coat, can be mounted on all ordinary toilet bowls

PU = 1 piece

Item-No.
40F1

Please indicate colour code of the imitation leather on your orders!



The soft padding prevents sores whilst using the toilet.



## Anti-Decubitus Heel Protector

to prevent decubitus, made of artificial fleece, with velcro closure and slide padding, boiling- and tumble-drying-proof, sterilizable

PU = 1 pair

Colour	Item-No.
white	30F1



## Anti-Decubitus Elbow Protector

to prevent decubitus, made of artificial fleece, with velcro closure and padding, boiling- and tumble-drying-proof, sterilizable

PU = 1 pair

Colour	Item-No.
white	30F2

Anti-Decubitus products are available in other sizes upon request!

# Walking Aids & Rehabilitation Technology

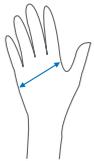
## Wheelchair Glove Model „Murnau“



broad version, made of special leather, suitable for tetraplegia, with two velcro fasteners, fully adjustable, loop and fastening rings

PU = 1 pair

Size	Hand width	Wrist circumference	Colour	Item-No.
small	8 cm	15 cm	peach	45F1/KH
small	8 cm	15 cm	black	45F1/KS
medium	10 cm	17 cm	peach	45F1/MH
medium	10 cm	17 cm	black	45F1/MS
large	12 cm	19 cm	peach	45F1/GH
large	12 cm	19 cm	black	45F1/GS



Hand width



Wrist circumference

## Wheelchair Glove Model „Murnau“



same as item 45F1, with anti skid layer on the palm, for better drive on push-rim

PU = 1 pair

Size	Hand width	Wrist circumference	Colour	Item-No.
small	8 cm	15 cm	peach	45F2/KH
small	8 cm	15 cm	black	45F2/KS
medium	10 cm	17 cm	peach	45F2/MH
medium	10 cm	17 cm	black	45F2/MS
large	12 cm	19 cm	peach	45F2/GH
large	12 cm	19 cm	black	45F2/GS



Hand width



Wrist circumference

# Walking Aids & Rehabilitation Technology

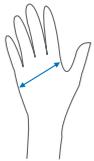
## Wheelchair Glove Model „Murnau“



same as item 45F1, narrow version with adjustable velcro fastener, loop and fastening ring

PU = 1 pair

Size	Hand width	Wrist circumference	Colour	Item-No.
small	8 cm	15 cm	peach	45F3/KH
small	8 cm	15 cm	black	45F3/KS
medium	10 cm	17 cm	peach	45F3/MH
medium	10 cm	17 cm	black	45F3/MS
large	12 cm	19 cm	peach	45F3/GH
large	12 cm	19 cm	black	45F3/GS



Hand width



Wrist circumference

## Arm Bearing Tray „System Wolf“

a pre-molded arm tray made of Streifycolour, without padding, can be individually modified and installed to a wheelchair and creates a better arm embedding, colour: black

PU = 1 piece



Length x Hand width	Size / side	Item-No.
480 x 120 mm	1 / left	35F1/1L
480 x 120 mm	1 / right	35F1/1R
500 x 140 mm	2 / left	35F1/2L
500 x 140 mm	2 / right	35F1/2R



The used material is easy to grind and thermoplastically moldable.



## Arm Tray / Hemiplegia Tray

with universal fasteners, to slide onto an existing wheelchair arm rest, the tray is made of Streifycolour with a Plastazote lining and a hand pad

PU = 1 piece

Length x Hand width	Colour	Item-No.
460 x 100 mm	black	36F1



The tray is tiltable for inner and outer rotation.



## Foot Tray

tray made of Streifycolour PE-HWU, colour: black

PU = 1 piece

Size	Item-No.
small	35F2/K
medium	35F2/M
large	35F2/G



## Multipurpose Safety Belt

imitation leather, with 4 wheelchair mounting options

PU = 1 piece

Length x Width	Colour	Item-No.
115 x 6 cm	black	37F1



## Safety Belt, Model „Murnau“

this safety belt is mounted to the wheelchair with snap fasteners, the 10 cm broad version prevents constrictions in the abdominal and chest area

PU = 1 piece

Length x Width	Colour	Item-No.
170 x 10 cm	black	38F1



With the continuous adjustability of the velcro closure, an optimal fixation in the abdominal and chest area is reached.



# Textiles



# Textiles

The first historical reference to the use of fabrics can already be found 20,000 years ago. The formerly pure workmanship has developed into a textile industry, which uses state-of-the-art machines to produce fabrics on a large scale.

'Fabrics' is the name which has been given to a flexible material that consists of a compound of fibers. This generic term comprises not only fibers, threads and textile surfaces such as cloths, hosiery or nonwoven fabrics, but finished products as well.

Raw materials can be classified into natural fibers (of animal or vegetable origin) and synthetically produced synthetic fibers.

Depending on the intended use, textiles are classified into

- Clothing fabric
- Home textiles (carpets, padding fabric)
- Fabric for technical use (filters, fiber reinforcement for plastics)

The precise use of the different terms is stipulated in DIN 60000. In Germany, the Textilkennzeichnungsgesetz (TKG [textile labeling regulation]) governs the marking of textiles.



Streifeneder ortho.production offers a comprehensive assortment of textile fabrics to all craft workshops of the orthopaedic line of business. The fields of application are various: Diverse cloths and warp knitted tubular products are used for the manufacture of shafts; felts are used as cushioning material for orthoses, and high-stretch cloths are used for bandages. Moreover, it is impossible to imagine bandages and orthoses without Velcro-type fastener systems.



# Fibers

Any textile raw material has its special properties and influences the appearance and the utility value of a textile. One distinguishes between the following fibers:

## Vegetable fibers

Cotton fibers are taken from the capsules of the cotton plant. They mainly consist of pure cellulose and water. They have a length between 16 and 50 mm. The longer the individual fiber, the higher the quality of the final product and the finer and smoother its aspect.

The use of cotton fibers offers many advantages:

- They can be dyed and bleached to pure white easily
- They are very tear-resistant, especially when they are wet
- They are insensitive to alkaline solutions and heat
- They are very absorbent

Vegetable fibers also include flax (used to make linen), jute, hemp and ramie, which is made of the stalks of the cotton plant. The same applies to sisal and coir fibers, which are used in the industry to produce mats and sacks.

## Fibers made of animal raw material

Wool from sheep constitutes the largest share of textile raw materials made of animal fibers. Wool has a high heat-retaining capacity and can absorb a lot of humidity.

The woolmark guarantees virgin wool, i. e. the wool was taken from living sheep. Furthermore, there is regenerated wool (shoddy), which can be pure wool, however, it is a recycling product made of textile wastes.

Other raw materials can be hair of camels, cashmere goats, angora rabbits and mohair goats.

## Chemical fibers

There are chemical fibers based on cellulose, e. g. viscose, cupro and acetate, which were called rayon staple fiber in former days.

During this process, rayon staple fibers are extracted from wood and liquefied with a sodium hydroxide solution. The resulting spinning dope is ejected via spinning jets, cooled down with water and reeled up onto a bobbin. Fineness of the fiber, cross-section, gloss and colour can be designed individually.

The viscose fiber absorbs humidity well, however, it has a low strength and wrinkles very easily. Since the fiber is easy to dye and to produce with a high gloss finish, it is often used in the world of fashion.

Chemical or artificial fibers on a synthetic basis are always poly-compound groups, i.e. the fiber connections are built by differently structured chain molecules. Among other materials, crude oil, carbon, water, oxygen and nitrogen are used as raw material. By means of different processes, these materials are liquefied and spun as endless thread. There are many developments, which have been registered as trademark by the manufacturer. These names are even better known than the genuine material, e. g. Perlon® or Nylon® are polyamide fibers.

 When washing vegetable fibers for the first time, you have to take a residual shrinkage of approx. 3 % into account, unless the textile has been sanforized (improved), i.e. processed to withstand shrinkage. In comparison to chemical fibers, any natural fiber has the disadvantage that the raw material is never the same and therefore reacts differently when dyed or finished.

Polyester (PES) Trade names Diolen® and Trevira®	The fiber is very versatile and therefore has a top position among synthetic fibers. It is very resistant to tear and abrasion and absorbs nearly no humidity. Polyester is sensitive to heat and must not be ironed too hot.
Polyamide (PA) Trade names Nylon® and Perlon®	Similar wearing quality as polyester. Polyamide may be permanently formed with heat, a characteristic, which is used during thermosetting.
Microfibers Trade names Tactel® and Meryl®	Microfibers are often polyamide as well, because it can be spun in fine threads. Thus textiles can be produced, which are permeable with regard to water vapor molecules but drops cannot penetrate from the outside.
Polyacryl (PAC) Trade names Dralon® and Dunova®	These fibers have a feel similar to wool and are often mixed with wool or used for fur imitations. They are well resistant to light and chemicals and are therefore used for home textiles as well.
Polypropylene (PP)	Polypropylene is a side-product when producing crude oil. PP does not absorb water, has a very high strength, is rot proof and has a high electric insulating power. It is used for instance for functional sports underwear, carpets, textiles especially for wet areas and toiletries.
Polyurethane (PUR)	Polyurethane is the basis for elastic threads, coatings and adhesives. It is characterized by an extreme resistance to chemicals.

Elastomeric fibers are synthetically produced elastic fibers (Elastan), which are lighter and more durable than rubber; known trade names are Lycra®, Spandex®, and Dorlastan®. The raw material is mainly polyurethane. Elastomers can be mixed with spinning matter or you can twist a normal filament yarn around an elastomeric thread to get a stretchable finished product. These fibers may not be dried at temperatures exceeding 100 °C. Only elastic fibers on rubber basis - the raw material of natural origin - may be called rubber or elastodienes.

By means of the burning test, one can determine the type of raw material:

- Cotton burns with a bright flame
- Wool burns without flame and has a keratin smell
- PA and PE fuse and can be transformed into threads
- PAC and PVC carbonize to a hard and black residue

The designation of the fiber types and their acronyms are laid down in the textile labeling regulation. Every textile product (the articles defined in this manner are precisely laid down) must have a detailed specification of raw materials. If this article is composed of several fibers, they have to be listed in decreasing order according to their proportion of weight.

By means of a follow-up treatment, the individual endless thread can be textured, i.e. the thread is crimped. This is intended to generate a more voluminous feel and elasticity of the final product.

# Yarns

In a spinning company the several fibers or filaments are belted by twisting them and thus a yarn (or a thread) is created. The material used may consist of many shorter fibers or of endless-filaments. If several yarns are twisted together, the result is a ply yarn (a sewing thread is usually a ply yarn). In order to achieve a yarn with high breaking strength, an optional number of ply yarns is twisted into a cabled yarn.

The fineness of a yarn is indicated by various designations:

Nm: How many meters of a yarn weigh 1 gram?

Tex: How many grams weigh 1000 meters of yarn?

Titer (den): How many grams weigh 9000 meters of yarn?



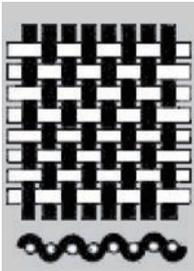
Nm 20/2 signifies: 20 meters of a single yarn weigh one gram and two of these single yarns are twisted together to form a thread.  
As a rule, the higher the Nm-number, the finer the yarn.

Alphabetical overview of the different kinds of fibers

Denominations	Abbreviation	Denominations	Abbreviation
Acetate	CA	Metal	MTF
Alpaca	WP	Modacryl	MAC
Angora	WA	Modal	CMD
Aramid	AR	Mohair	WM
Asbestos	AS	Polyacrylic	PAC
Cotton	CO	Polyamide	PA
Cupro	CUP	Polyester	PES
Spandex	EL	Polyethylene	PE
Elastodiene (Latex)	ED	Polypropylene	PP
Flax, Linen	LI	Polyurethane	PUR
Fluoro	PTFE	Polyvinylalcohol	PVAL
Glass	GF	Polyvinylchloride	CLF
Rubber	LA	Polyvinylidenchloride	CLF
Hemp	HA	Ramie	RA
Jute	JU	Horsehair	HS
Camel	WK	New Wool	WV
Kapok	KP	Silk (Mulberry Silk)	SE
Cashmere	WS	Sisal	SI
Carbonate	CF	Vicuna	WG
Coco	CC	Rayon	CV
Lama	WL	Wool (Sheep Wool)	WO

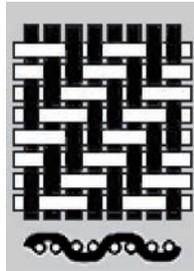
# Woven Fabrics

In the case of woven fabrics, chain and weft always cross at right angles. The type of interlacing is called weave. All weaves can be put down to three simple weaves: twill weave, plain weave and atlas weave. Pattern repeat is the smallest, always returning pattern unit.



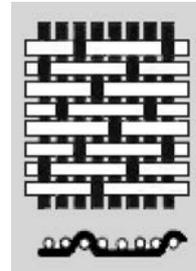
## Plain weave

Plain weave, also called linen weave or taffeta weave, is the same on the front and on the rear part and forms a solid product. Known variants are flannel, poplin or muslin.



## Twill weave

The twill weave can be recognized because one pick always runs with an offset over two warp ends, which results in a diagonal stitch. The twill weave allows that specific parts of a material are more distinct on the (decorative) face. Twill fabrics have a softer feel due to the looser weave; known variants are twill, serge, gabardine, denim or herringbone pattern (zigzag pattern).



## Atlas weave

The atlas or satin weave is the loosest weave. Here, one pick runs over at least four warp ends before interlacing. This results in an especially soft feel and a soft and lustrous surface. Known atlas weaves are duchesse or moleskin.

## Jacquard design

When using a jacquard loom, each single warp end can be lifted and lowered separately and thus allows various weaves. A preprogrammed sequence of movements results in the well-known jacquard designs.

## Frottee (terry)

For frottee fabrics, an effect yarn with loops – a so-called loop yarn – is used as pick/weft yarn.

## Velvet

In the case of velvet, an additional thread is interlaced, which creates loops on the fabric face that are cut afterwards.

## Velour

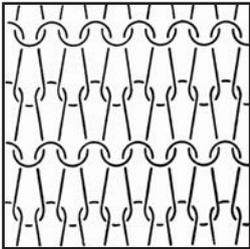
Velour (French = velvet) is the generic term for a velvet-type surface. This surface is created by napping the surface of a fabric or it designates the rough surface of (imitation) leather.

# Knitwear and Hosiery

Knitwear can be subdivided into knitted goods and hosiery goods. Most of the time, the optical difference is not discernible, but the difference is caused by the use of different production machines. Knitted goods are generally called jersey (jersey knit). These goods are knitted on circular knitting machines (hoses or pipes) or by means of flat knitting machines as flat goods.

## Weft-knitted fabric

Only one yarn running in transverse direction is used for knitting weft-knitted fabrics. This knitted fabric is caught simultaneously by many needles and the knitwear is pulled through the previous tubular knit course. This process is used to make hoses or yard goods. A typical example is rib knitting. This is the name of rib knitted fabric, which is produced on circular knitting machines and in which both sides present the same fabric appearance.

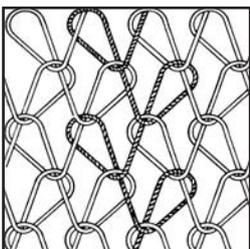


For weft-knitted fabrics, only one yarn is used for knitting.

## Warp-knitted fabric

Interlock (fabric) is a variant where several yarns are knitted in one row. This results in a very solid and thick fabric appearance with an enormous elasticity.

The number of knitted stitches of the finished knitted fabric corresponds to the number of yarns and needles, which are used to make warp-knitted fabrics. The yarns are running vertically and create the optical impression that the knits are always slightly oblique. As a rule, this knitwear is difficult to unstitch. One variant of this type of fabric is the tricot weave formed by ragged stitches where knits are woven into the adjacent loop.



Warp-knitted fabric is produced with many yarns and needles.

### Plush

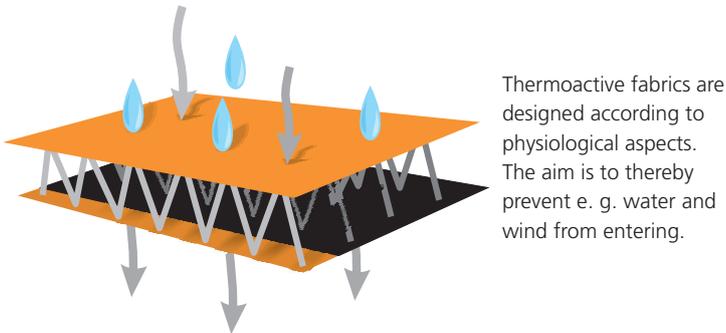
Plush is a warp-knitted fabric with long loops. Cutting the loops for instance results in chenille fabrics (chenille plush).

### Fleece

Fleece is also a knitted fabric, but the surface is severely napped.

### Warp-knitted spacer fabrics

Warp-knitted spacer fabrics are a relatively recent development. They are equipped with two cover textiles, which are kept in a well-defined distance to each other by means of spacer yarns (pile yarn). 3D-textiles (three-dimensional textiles) have a lasting elasticity of compression and gently yield to external impacts with restoring force. A microclimate is generated inside the pile layer, which acts a thermoregulator. Humidity is transported to the outside, but the inside is protected against the cold from the outside. Depending on the purpose of use, those cover textiles are additionally masked with a functional material (firmly fixed by bonding).



Thermoactive fabrics are designed according to physiological aspects. The aim is to thereby prevent e. g. water and wind from entering.

## Nonwoven Fabrics

Nonwoven fabric is the general name given to textile structures made of single fibers, which are strainhardened by means of different processes (binding agents, pressing etc.). A well-known trade name is the main interlining Vlieseline®.

### Felt

A special form is felting. Different materials are compressed by combining mechanical work, chemical influences, humidity and heat. Felt has various advantages. Felt is air-permeable, temperature-resistant from -40° up to +110 °C, soundabsorbing, ph-resistant, UV-resistant, moisture repellent and durable.



Felt is a nonwoven fabric made from textile fibers, primarily from wool.

# Labeling Recommendations

## Care symbols

The labeling of textile goods and textiles is governed by the European Directive about the Labeling of Textiles, which replaced the German textile labeling code in March 2012. The label provides important information to the consumer with regard to a proper handling of textiles for washing, drycleaning, drying and ironing and helps to avoid product returns. The symbols for care labeling are defined by ISO 3758, a standard, which is globally in force.

## Materials and articles regulation

The material and articles regulation mainly stipulates the safety of foodstuffs, but applies to textiles as well in the following areas:

- Azoic colours  
Textile and leather articles, which may come into direct contact with the skin must not be dyed with specific azoic colours.
- Flame-retardant  
Specific flame-retardants may no longer be used except for protective clothing.
- Nickel  
Materials and articles coming into direct and prolonged contact with the body shall no longer be put into circulation if the rate of nickel release is greater than 0.5 mg/cm<sup>2</sup>. This includes also articles that are covered with nickel-free finishes, which, however, are expected to be subject to abrasion when worn. The absence of nickel has to be guaranteed for a period of two years.
- Formaldehyde  
Textile products with a mass exceeding 0.15 % of free formaldehyde, which in their normal use come into contact with the skin, must be labeled with the following sentence: "Contains formaldehyde. Washing this garment is recommended prior to first time use in order to avoid irritation of the skin".

The Oeko-Tex Standard is a testing and certification system for textiles, which is issued by the "International Association for Research and Testing on the Textile Ecological Sector" (Oeko-Tex). It is intended to show the customer that textile products equipped with these labels respect specific limits with regard to harmful substances.

The certification system has four product categories:

- I – Textiles and textile toys for babies and infants up to 3 years.
- II – Textiles which come directly into contact with the skin with a large part of their surface (garments, undergarments and bedding).
- III – Textiles which do not come directly into contact with the skin or only with a small part of their surface (outerwear, coats, etc.)
- IV – Equipment material for decoration purposes (table linen, curtains, etc.).

The degree of testing depends on the product category. The higher the intensity of skin contact of the textile, the more stringent are the requirements.



## Loop Strap

### Material

- 100 % Polyamide

### Area-measured material

- woven

### Recommendation

- wash only when closed

PU = 10, 20, 25, 30 or 50 meter roll



Width	Colour	Item-No.
20 mm	white	60T18F20W
20 mm	peach	60T18F20H
20 mm	blue	60T18F20B
20 mm	light blue	60T18F20HB
20 mm	black	60T18F20S
20 mm	red	60T18F20R
25 mm	white	60T18F25W
25 mm	peach	60T18F25H
25 mm	blue	60T18F25B
25 mm	light blue	60T18F25HB
25 mm	black	60T18F25S
25 mm	red	60T18F25R
30 mm	white	60T18F30W
30 mm	peach	60T18F30H
30 mm	blue	60T18F30B
30 mm	light blue	60T18F30HB
30 mm	black	60T18F30S
30 mm	red	60T18F30R
38 mm	white	60T18F38W
38 mm	peach	60T18F38H
38 mm	black	60T18F38S
50 mm	white	60T18F50W
50 mm	peach	60T18F50H
50 mm	blue	60T18F50B
50 mm	light blue	60T18F50HB
50 mm	black	60T18F50S
50 mm	red	60T18F50R
50 mm	green	60T18F50GÜ
100 mm	white	60T18F100W
100 mm	peach	60T18F100H
100 mm	black	60T18F100S



## Hook Strap

### Material

- 100 % Polyamide

### Area-measured material

- woven
- hook shaped velcro filaments

### Recommendation

- wash only when closed

PU = 10, 20, 25, 30 or 50 meter roll



Width	Colour	Item-No.
20 mm	white	60T18K20W
20 mm	peach	60T18K20H
20 mm	blue	60T18K20B
20 mm	light blue	60T18K20HB
20 mm	black	60T18K20S
20 mm	red	60T18K20R
25 mm	white	60T18K25W
25 mm	peach	60T18K25H
25 mm	blue	60T18K25B
25 mm	light blue	60T18K25HB
25 mm	black	60T18K25S
25 mm	red	60T18K25R
30 mm	white	60T18K30W
30 mm	peach	60T18K30H
30 mm	blue	60T18K30B
30 mm	light blue	60T18K30HB
30 mm	black	60T18K30S
30 mm	red	60T18K30R
38 mm	white	60T18K38W
38 mm	peach	60T18K38H
38 mm	black	60T18K38S
50 mm	white	60T18K50W
50 mm	peach	60T18K50H
50 mm	blue	60T18K50B
50 mm	light blue	60T18K50HB
50 mm	black	60T18K50S
50 mm	red	60T18K50R
50 mm	green	60T18K50GÜ
100 mm	white	60T18K100W
100 mm	peach	60T18K100H
100 mm	black	60T18K100S



## Hook Strap „Hako Fix“

velcro strap with hooks for hook-and-loop fastener **Material**

- 100 % Polyamide

### Area-measured material

- woven
- hook shaped velcro filaments
- extremely high clinging properties

### Recommendation

- wash only when closed

PU = 10, 15 and 25 meter roll



Width	Colour	Item-No.
20 mm	white	60T80K20W
20 mm	peach	60T80K20H
20 mm	blue	60T80K20B
20 mm	black	60T80K20S
20 mm	yellow	60T80K20X
20 mm	red	60T80K20R
25 mm	blue	60T80K25B
25 mm	black	60T80K25S
25 mm	light blue	60T80K25HB
25 mm	yellow	60T80K25X
25 mm	red	60T80K25R
30 mm	white	60T80K30W
30 mm	peach	60T80K30H
30 mm	blue	60T80K30B
30 mm	black	60T80K30S
30 mm	yellow	60T80K30X
30 mm	red	60T80K30R
30 mm	grey	60T80K30G
38 mm	white	60T80K38W
38 mm	peach	60T80K38H
38 mm	blue	60T80K38B
38 mm	light blue	60T80K38HB
38 mm	black	60T80K38S
38 mm	yellow	60T80K38X
38 mm	red	60T80K38R
50 mm	white	60T80K50W
50 mm	peach	60T80K50H
50 mm	blue	60T80K50B
50 mm	light blue	60T80K50HB
50 mm	black	60T80K50S
50 mm	yellow	60T80K50X
50 mm	red	60T80K50R



## Loop Strap „Hako Fix“

velcro strap with loops for hook-and-loop fastener

### Material

- 100 % Polyamide

### Area-measured material

- woven
- extremely high clinging properties

### Recommendation

- wash only when closed

PU = 10, 15 and 25 meter roll



Width	Colour	Item-No.
20 mm	white	60T80F20W
20 mm	peach	60T80F20H
20 mm	blue	60T80F20B
20 mm	black	60T80F20S
20 mm	yellow	60T80F20X
20 mm	red	60T80F20R
25 mm	blue	60T80F25B
25 mm	black	60T80F25S
25 mm	light blue	60T80F25HB
25 mm	yellow	60T80F25X
25 mm	red	60T80F25R
30 mm	white	60T80F30W
30 mm	peach	60T80F30H
30 mm	blue	60T80F30B
30 mm	black	60T80F30S
30 mm	yellow	60T80F30X
30 mm	red	60T80F30R
30 mm	grey	60T80F30G
38 mm	white	60T80F38W
38 mm	peach	60T80F38H
38 mm	blue	60T80F38B
38 mm	light blue	60T80F38HB
38 mm	black	60T80F38S
38 mm	yellow	60T80F38X
38 mm	red	60T80F38R
50 mm	white	60T80F50W
50 mm	peach	60T80F50H
50 mm	blue	60T80F50B
50 mm	light blue	60T80F50HB
50 mm	black	60T80F50S
50 mm	yellow	60T80F50X
50 mm	red	60T80F50R



## Hook and Look Strap Micro



**Material**  
 ▪ 100% polyamid

**Area-measured material**  
 ▪ extrudiert (in Form gepresst)  
 ▪ hakenförmige Klettfäden

**Recommendation**  
 ▪ wash only when closed

PU = 50 meter roll

Width	Colour	Version	Item-No.
20 mm	black	hook	60T40K20S
20 mm	black	loop	60T40F20S



## Hook and Loop Coins



self-adhesive

**Material**  
 ▪ 100% polyamide with adhesive coating

PU = 1 roll (500 pcs)

Diameter	Colour	Version	Item-No.
30 mm	peach	hook	60T86K30H
30 mm	black	hook	60T86K30S
30 mm	white	hook	60T86K30W
30 mm	peach	loop	60T86F30H
30 mm	black	loop	60T86F30S
30 mm	white	loop	60T86F30W



## Elastic Hook and Loop Strap



### Material

- Polyamide/Elasthane

### Area-measured material

- woven
- extendability 50%

### Recommendation

- wash only when closed
- attach with zigzag seam

PU = 10, 20, 25, 30 or 50 meter roll

Width	Colour	Version	Item-No.
30 mm	white	loop	60T30F30W
30 mm	peach	loop	60T30F30H
30 mm	blue	loop	60T30F30B
30 mm	black	loop	60T30F30S
50 mm	white	loop	60T30F50W
50 mm	peach	loop	60T30F50H
50 mm	blue	loop	60T30F50B
50 mm	black	loop	60T30F50S
30 mm	white	hook	60T30K30W
30 mm	peach	hook	60T30K30H
30 mm	blue	hook	60T30K30B
30 mm	black	hook	60T30K30S
50 mm	white	hook	60T30K50W
50 mm	peach	hook	60T30K50H
50 mm	blue	hook	60T30K50B
50 mm	black	hook	60T30K50S



## Hook and Loop Strap



### Material

- 100 % Polyamide

### Area-measured material

- woven
- mushroom-shaped Velcro filaments
- cutted selvedge

### Recommendation

- wash only when closed

PU = meter

Width	Colour	Version	Item-No.
1000 mm	white	loop	60T35F/W
1000 mm	peach	loop	60T35F/H
1000 mm	white	hook	60T35K/W



## Self-Adhesive Hook and Loop Strap



### Material

- 100 % polyamide

### Area-measured material

- woven

### Recommendation

- wash only when closed

PU = 10, 20, 25, 30 or 50 meter roll

Width	Colour	Version	Item-No.
20 mm	white	loop	60T37F20W
20 mm	peach	loop	60T37F20H
20 mm	black	loop	60T37F20S
25 mm	white	loop	60T37F25W
25 mm	peach	loop	60T37F25H
25 mm	black	loop	60T37F25S
30 mm	white	loop	60T37F30W
30 mm	peach	loop	60T37F30H
30 mm	black	loop	60T37F30S
38 mm	white	loop	60T37F38W
38 mm	peach	loop	60T37F38H
38 mm	black	loop	60T37F38S
50 mm	white	loop	60T37F50W
50 mm	peach	loop	60T37F50H
50 mm	black	loop	60T37F50S
20 mm	white	hook	60T37K20W
20 mm	peach	hook	60T37K20H
20 mm	black	hook	60T37K20S
25 mm	white	hook	60T37K25W
25 mm	peach	hook	60T37K25H
25 mm	black	hook	60T37K25S
30 mm	white	hook	60T37K30W
30 mm	peach	hook	60T37K30H
30 mm	black	hook	60T37K30S
38 mm	white	hook	60T37K38W
38 mm	peach	hook	60T37K38H
38 mm	black	hook	60T37K38S
50 mm	white	hook	60T37K50W
50 mm	peach	hook	60T37K50H
50 mm	black	hook	60T37K50S



## Hook and Loop Strap „Back-to-Back“

fixed back-to-back

### Material

- 100 % polyamide

### Area-measured material

- woven

PU = 25 meter roll



Width	Colour	Item-No.
20 mm	white	60T38B20W
20 mm	peach	60T38B20H
20 mm	black	60T38B20S
25 mm	white	60T38B25W
25 mm	black	60T38B25S
30 mm	white	60T38B30W
30 mm	peach	60T38B30H
30 mm	black	60T38B30S
50 mm	white	60T38B50W
50 mm	peach	60T38B50H
50 mm	black	60T38B50S



## Hook and Loop Fasteners with deflection-loop and flap



### Material

- 100 % polyamide
- woven
- buckle made of white unbreakable plastic material

PU = 10 pcs/colour

60T70 - coloured

Size W x L	Colour	Item-No.
25x350 mm	blue	60T70/25B
25x350 mm	yellow	60T70/25G
25x350 mm	red	60T70/25R
25x350 mm	black	60T70/25S
25x350 mm	white	60T70/25W
30x350 mm	blue	60T70/30B
30x350 mm	yellow	60T70/30G
30x350 mm	red	60T70/30R
30x350 mm	black	60T70/30S
30x350 mm	white	60T70/30W
38x350 mm	blue	60T70/38B
38x350 mm	yellow	60T70/38G
38x350 mm	red	60T70/38R
38x350 mm	black	60T70/38S
38x350 mm	white	60T70/38W
50x350 mm	blue	60T70/50B
50x350 mm	yellow	60T70/50G
50x350 mm	red	60T70/50R
50x350 mm	black	60T70/50S
50x350 mm	white	60T70/50W

60T60 - peach

Size W x L	Colour	Item-No.
25x420 mm	peach	60T60/25H
30x420 mm	peach	60T60/30H
38x420 mm	peach	60T60/38H
50x420 mm	peach	60T60/50H

## Padding Band



for padding of lower leg orthoses (AFO), colour: black, U formed cross-section

PU = meter

Inner diameter	Item-No.
25 mm	197P10/25
38 mm	197P10/38

## Velcro, Loop Strap



**Material:**  
100 % polyamide

**Area-measured material:**

- velours, compatible to velcro
- hemmed on both sides
- stable version

PU = 23 m per roll

Width	Colour	Item-No.
35 mm	black	60T15F35S



## Cotton Webbing Strap



**Material**

- 100% cotton

**Area-measured material**

- woven
- finished
- plain weave
- tintured yarn
- diagonally cutted, folded, medial selvedge
- light quality

PU = 50 meter roll

Width	Colour	Item-No.
10 mm	white	52T1/10W
10 mm	peach	52T1/10H
10 mm	black	52T1/10S
14 mm	white	52T1/14W
14 mm	peach	52T1/14H
14 mm	black	52T1/14S
18 mm	white	52T1/18W
18 mm	peach	52T1/18H
20 mm	white	52T1/20W
20 mm	peach	52T1/20H
20 mm	black	52T1/20S



## Velvet Strap

### Material

- 100 % polyamide

### Area-measured material

- woven with strong selvedge

### Recommendation

- iron on the bottom side



Width	Colour	Pu/roll	Item-No.
22 mm	white	10 m	59T9/22W
22 mm	peach	10 m	59T9/22H
22 mm	black	10 m	59T9/22S
50 mm	peach	10 m	59T8/50H
50 mm	black	10 m	59T8/50S



## Webbing Belt

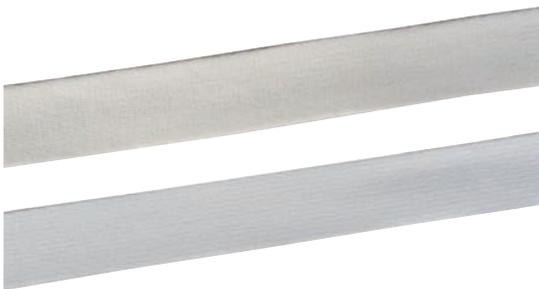
### Material

- 100% viscose

### Area-measured material

- woven
- finished
- roughed up
- twill weave
- fluffy, soft grip

PU = 25 meter roll



Width	Colour	Item-No.
20 mm	off-white	57T3/20R
20 mm	white	57T3/20W



## Webbing Strap for „Drell-“ and „Jaquard-“ Cloth



### Material

- depending on the type 100% cotton or cotton/viscose-mix

### Area-measured material

- woven
- straight cut, double folded, medial selvedge

PU = 30 meter roll

Width	Colour	Matches with cloth	Item-No.
20 mm	peach	2T25/H	2T25S/H
20 mm	peach	4T7/H	4T7S/H
20 mm	peach	12T4/H	12T4S/H
20 mm	peach	22T23/H	22T23S/H
20 mm	peach	22T40/H	22T40S/H
20 mm	peach	22T73/H	22T73S/H
20 mm	peach	22T76/H	22T76S/H
20 mm	peach	22T77/H	22T77S/H
20 mm	peach	22T78/H	22T78S/H
20 mm	peach	2T24/H and 2T23/H	52T4/20H
20 mm	peach	2T26/H	52T6/20
20 mm	white	22T8/W	22T8S/W
20 mm	white	22T23/W	22T23S/W
20 mm	white	2T24/W	52T4/20W
20 mm	black	22T8/S	22T8S/S
20 mm	black	2T24/S	52T4/20S
20 mm	black	22T23/S	22T23S/S
22 mm	peach	2T24/H and 2T23/H	52T4/22H
25 mm	peach	12T4/H	12T4S/25H
25 mm	peach	2T24/H and 2T23/H	52T4/25H
25 mm	white	2T24/H	52T4/25W
32 mm	peach	2T26/H	52T6/32



## Cotton Trim Strap



**Material**  
 ▪ 100% cotton

**Area-measured material**  
 ▪ woven  
 ▪ finished  
 ▪ herringbone weave  
 ▪ light quality

PU = 50 meter roll

Width	Colour	Item-No.
10 mm	white	51T1/10W
10 mm	peach	51T1/10H
10 mm	black	51T1/10S
14 mm	white	51T1/14W
14 mm	peach	51T1/14H
14 mm	black	51T1/14S
16 mm	white	51T1/16W
16 mm	peach	51T1/16H
16 mm	black	51T1/16S
18 mm	white	51T1/18W
18 mm	peach	51T1/18H
18 mm	black	51T1/18S
20 mm	white	51T1/20W
20 mm	peach	51T1/20H
20 mm	black	51T1/20S



## Rip Fracture Support Belt



**Material**  
 ▪ 100% cotton

**Area-measured material**  
 ▪ woven  
 ▪ herringbone weave  
 ▪ mottled, rough structure  
 ▪ strong quality

PU = 10 or 25 meter roll

Width	Colour	Item-No.
100 mm	off-white	58T1/100W



## Hernia Truss Cover Strap



**Material**

- 100% cotton

**Area-measured material**

- woven
- heringbone weave
- mottled, rough structure
- strong quality

PU = 10, 20, 30 or 50 meter roll

Width	Colour	Item-No.
20 mm	off-white	56T3/20RW



## Support Strap



**Material**

- 100% cotton

**Area-measured material**

- woven with firm selvedge
- twill weave with striped look
- strong quality

PU = 10, 20, 30 or 50 meter roll

Width	Colour	Item-No.
30 mm	white	53T3/30W
30 mm	peach	53T3/30H
35 mm	white	53T3/35W
35 mm	peach	53T3/35H
45 mm	white	53T3/45W
45 mm	peach	53T3/45H



## Support Strap



**Material**

- 98% cotton and 2% polyester

**Area-measured material**

- woven
- heringbone weave with intermittent stiped look
- firm, stiff quality with reinforced selvedge

PU = 10, 20, 30 or 50 meter roll

Width	Colour	Item-No.
35 mm	peach	53T6/35H
45 mm	peach	53T6/45H



## Support Strap

- Material**
- 100% cotton

**Area-measured material**

- woven
- finished
- herringbone weave with woven stripe pattern
- medium-strong, stiff quality

PU = 10, 20, 30 or 50 meter roll



Width	Colour	Item-No.
30 mm	white	53T9/30W
30 mm	peach	53T9/30H
30 mm	black	53T9/30S
35 mm	white	53T9/35W
35 mm	peach	53T9/35H
35 mm	black	53T9/35S
45 mm	white	53T9/45W
45 mm	peach	53T9/45H
45 mm	black	53T9/45S



## Support Strap

### Material

- 98 % cotton and 2 % polyester

### Area-measured material

- woven with reinforced selvedge
- finished
- twill weave with stipe look
- medium-strong quality

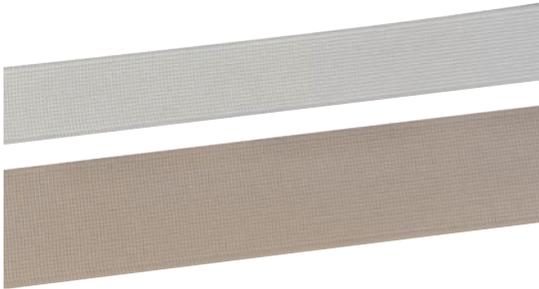
PU = 10, 20, 30 or 50 meter roll



Width	Colour	Item-No.
20 mm	white	53T13/20W
20 mm	peach	53T13/20H
20 mm	blue	53T13/20B
20 mm	black	53T13/20S
20 mm	red	53T13/20R
20 mm	dark blue	53T13/20D
25 mm	white	53T13/25W
25 mm	peach	53T13/25H
25 mm	blue	53T13/25B
25 mm	black	53T13/25S
25 mm	red	53T13/25R
25 mm	dark blue	53T13/25D
30 mm	white	53T13/30W
30 mm	peach	53T13/30H
30 mm	blue	53T13/30B
30 mm	black	53T13/30S
30 mm	red	53T13/30R
30 mm	dark blue	53T13/30D
35 mm	white	53T13/35W
35 mm	peach	53T13/35H
35 mm	blue	53T13/35B
35 mm	black	53T13/35S
35 mm	red	53T13/35R
35 mm	dark blue	53T13/35D
45 mm	white	53T13/45W
45 mm	peach	53T13/45H
45 mm	blue	53T13/45B
45 mm	black	53T13/45S
45 mm	red	53T13/45R
45 mm	dark blue	53T13/45D
50 mm	white	53T13/50W
50 mm	peach	53T13/50H
50 mm	blue	53T13/50B
50 mm	black	53T13/50S
50 mm	red	53T13/50R
50 mm	dark blue	53T13/50D



## Webbing Strap for Prostheses



**Material**

- 100 % cotton

**Area-measured material**

- woven
- plain weave with fine rip structure
- medium-strong, soft quality

PU = 30 or 50 meter roll

Width	Colour	Item-No.
20 mm	white	55T1/20W
20 mm	peach	55T14/20H
25 mm	white	55T1/25W
25 mm	peach	55T1/25H
30 mm	white	55T1/30W
30 mm	peach	55T14/30H
35 mm	white	55T1/35W
35 mm	peach	55T14/35H
45 mm	white	55T1/45W
45 mm	peach	55T14/45H



## Safety Belt



**Material**

- 100% polyester

**Area-measured material**

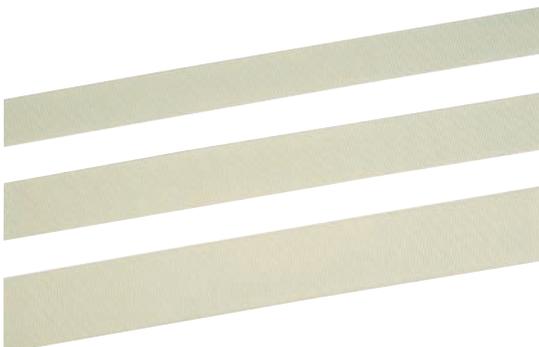
- woven
- plain weave with fine rip structure
- fine, shiny quality

PU = 10, 20, 30 or 50 meter roll

Width	Colour	Item-No.
40 mm	black	55T25
50 mm	black	55T25/50



## Webbing Strap for Prostheses



**Material**

- 100% polyester

**Area-measured material**

- woven
- plain weave with fine rip structure
- fine, shiny quality

PU = 10, 20, 30 or 50 meter roll

Width	Colour	Item-No.
30 mm	white	55T8/30W
35 mm	white	55T8/35W
45 mm	white	55T8/45W



## Webbing Strap

### Material

- 100% polypropylene or 100% polyamide

### Area-measured material

- woven
- plain weave with rip structure
- strong, shiny quality

PU = 10, 20, 30 or 50 meter roll



Width	Colour	Item-No.
20 mm	black	55T10/20S
23 mm	white	55T19/23W
25 mm	white	55T18/25W
25 mm	white	55T20/25W
25 mm	red	55T12/25R
25 mm	black	55T10/25S
25 mm	blue	55T16/25B
30 mm	navy-blue	55T11/30MB
30 mm	black	55T10/30S



## Webbing Strap, Polyester

### Material

- 100% polyester

### Area-measured material

- woven
- finished
- plain weave with rip structure
- light, shiny quality

PU = 10, 20, 30 or 50 meter roll



Width	Colour	Item-No.
20 mm	white	55T30/20W
20 mm	blue	55T30/20B
20 mm	black	55T30/20S
20 mm	red	55T30/20R
20 mm	yellow	55T30/20G
25 mm	white	55T30/25W
25 mm	blue	55T30/25B
25 mm	black	55T30/25S
25 mm	red	55T30/25R
25 mm	yellow	55T30/25G
30 mm	white	55T30/30W
30 mm	blue	55T30/30B
30 mm	black	55T30/30S
30 mm	red	55T30/30R
30 mm	yellow	55T30/30G
50 mm	white	55T30/50W
50 mm	blue	55T30/50B
50 mm	black	55T30/50S
50 mm	red	55T30/50R
50 mm	yellow	55T30/50G



## „Lycra-Tuell“ Webbing

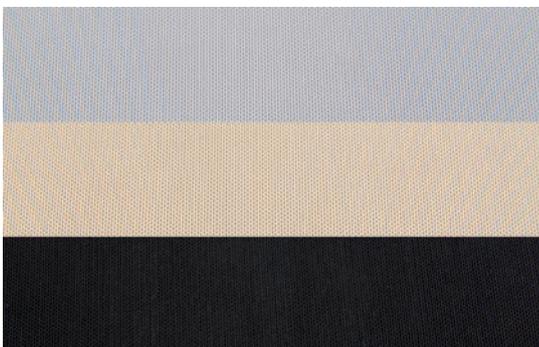
### Material

- 63% polyamide and 37% elasthane

### Area-measured material

- knitted
- finished
- open structure
- smooth surface look
- longitudinal elasticity approx. 110%
- transverse elasticity approx. 80%

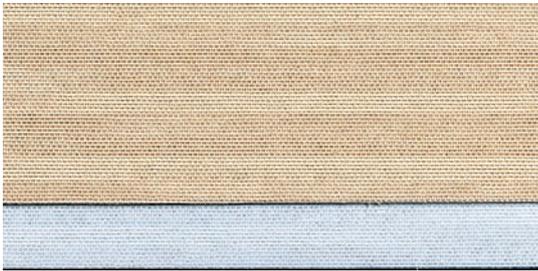
PU = meter



Width	Colour	Weight	Item-No.
900 mm	white	330 g/qm	63T35/W
900 mm	peach	330 g/qm	63T35/H
900 mm	black	330 g/qm	63T35/S



## „Tuell“ Webbing



### Material

- 54% polyester, 27% cotton and 19% elasthane

### Area-measured material

- knitted
- finished
- surface fluffy and roughed up
- longitudinal elasticity approx. 110%
- transverse elasticity approx. 80%

PU = meter

Width	Colour	Weight	Item-No.
950 mm	white	330 g/qm	63T46/W
950 mm	peach	330 g/qm	63T46/H



## „Elastinova-Tuellex“ Webbing



### Material

- 72% viscose, 16% cotton and 12% elastodien (latex)

### Area-measured material

- knitted
- smooth open structure
- strong quality
- longitudinal elasticity approx. 60 %
- special knit prevents from fraying out along the cut selvedge

PU = meter

Width	Colour	Item-No.
950 mm	peach	63T13/H



## „Elastinova“ Webbing



### Material

- 72% viscose, 16% cotton and 12% elastodien

### Area-measured material

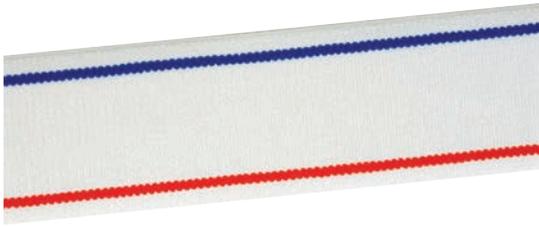
- knitted
- thick, strong quality
- longitudinal elasticity approx. 60%

PU = 5, 10 or 25 meter roll

Width	Colour	Item-No.
250 mm	peach	62T7/25H
300 mm	peach	62T7/30H
350 mm	peach	62T7/35H
400 mm	peach	62T7/40H
450 mm	peach	62T7/45H



## Elastic Webbing Strap



### Material

- 79% viscose and 21% rubber

### Area-measured material

- woven and with soft selvedge
- soft, medium-strong quality
- on one side with terry cloth look and woven stripes in red and blue
- longitudinal elasticity approx. 100%

PU = 5, 10 or 25 meter roll

Width	Colour	Item-No.
80 mm	white/stripes	61T14/80



## Elastic Webbing Strap



### Material

- 89% viscose and 11% rubber

### Area-measured material

- woven
- firm, medium-strong quality with smooth surface
- longitudinal elasticity approx. 70%

PU = 5, 10 or 25 meter roll

Width	Colour	Item-No.
50 mm	white	61T1/5W
50 mm	peach	61T1/5H
50 mm	black	61T1/5S
60 mm	white	61T1/6W
60 mm	peach	61T1/6H
60 mm	black	61T1/6S
80 mm	white	61T1/8W
80 mm	peach	61T1/8H
80 mm	black	61T1/8S
100 mm	white	61T1/10W
100 mm	peach	61T1/10H
100 mm	black	61T1/10S
120 mm	white	61T1/12W
120 mm	peach	61T1/12H
120 mm	black	61T1/12S
140 mm	white	61T1/14W
140 mm	peach	61T1/14H
140 mm	black	61T1/14S
160 mm	white	62T1/16W
160 mm	peach	62T1/16H
160 mm	black	62T1/16S
200 mm	white	62T1/20W
200 mm	peach	62T1/20H
200 mm	black	62T1/20S
250 mm	peach	62T1/25H
300 mm	peach	62T1/30H



## Elastic Webbing Strap



### Material

- 80% viscose and 20% rubber

### Area-measured material

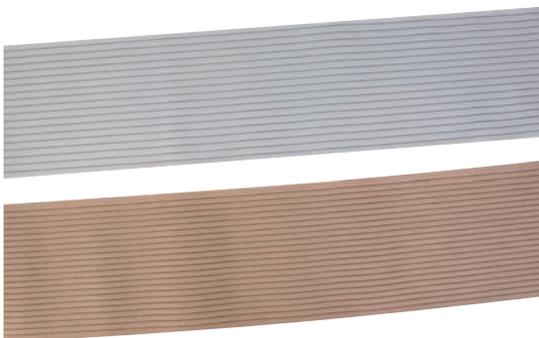
- woven with selvedge
- medium-strong quality with soft, smooth surface
- longitudinal elasticity approx. 60%

PU = 5, 10 or 25 meter roll

Width	Colour	Item-No.
50 mm	white	61T13/5W
50 mm	peach	61T13/5H
50 mm	black	61T13/5S
60 mm	peach	61T13/6H
60 mm	black	61T13/6S
80 mm	peach	61T13/8H
80 mm	black	61T13/8S
80 mm	white	61T13/8W



## Broad Elastic Webbing Strap



suitable for post operative abdominal bandages

### Material

- 90% polyamide and 10% elasthane
- ### Area-measured material
- woven with Perlon wire reinforcement
  - lattice-shaped, intermittent structure
  - soft surface
  - longitudinal elasticity approx. 65%

PU = 5, 10 or 25 meter roll

Width	Colour	Item-No.
60 mm	white	61T3/6W
60 mm	peach	61T3/6H
80 mm	white	61T3/8W
80 mm	peach	61T3/8H
160 mm	white	61T3/16W
160 mm	peach	61T3/16H
240 mm	white	61T3/24W
240 mm	peach	61T3/24H



## Elastic Wool Fabric

suitable for warming abdominal bandages

### Material

- 72% polyacryl, 24% cotton and 4% elasthane

### Area-measured material

- woven
- thick, soft quality with roughed up surface on one side
- longitudinal elasticity approx. 110%

PU = 5, 10 or 25 meter roll



Width	Colour	Item-No.
270 mm	off-white	62T22/27W



## Elastic Webbing Strap for Prostheses

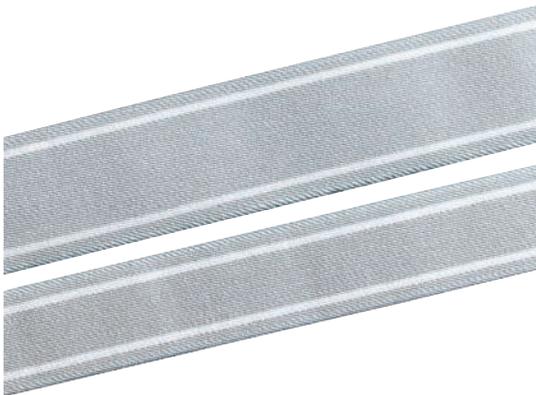
### Material

- 42% viscose, 37% cotton and 21% rubber

### Area-measured material

- multi-layer weave with soft, smoothed selvedge
- twill weave
- front side bright-grey with white stripes, white back side
- longitudinal elasticity approx. 45%

PU = 25 meter roll



Width	Item-No.
35 mm	65T3/35GW
45 mm	65T3/45GW



## Elastic Webbing

suitable for abdominal bandages for men

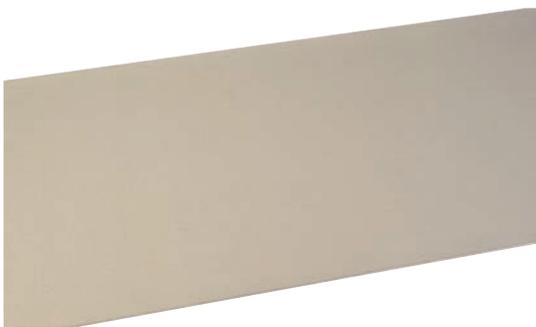
### Material

- 45% viscose, 30% polyester and 25% rubber

### Area-measured material

- woven with selvedge
- offset rip structure
- thick, firm quality
- longitudinal elasticity approx. 110%

PU = 10 or 25 meter roll



Width	Colour	Item-No.
250 mm	beige	62T21/25B
300 mm	beige	62T21/30B
350 mm	beige	62T21/35B



## Elastic Webbing Strap

- Material**
- 82% viscose and 18% elastodien

- Area-measured material**
- multi layer weave
  - woven stripes on both sides
  - soft, smoothened selvages
  - thick, firm quality
  - shiny, terry cloth structure
  - longitudinal elasticity approx. 70%

PU = 25 meter roll



Width	Colour	Item-No.
20 mm	golden/white	65T1/20BW
25 mm	golden/white	65T1/25BW
35 mm	golden/white	65T1/35BW
45 mm	golden/white	65T1/45BW



## Elastic Webbing Strap

- Material**
- 55% cotton, 36% polyester and 9% elastodien

- Area-measured material**
- woven
  - twill weave with two on one side weaved stripes
  - medium-strong quality
  - longitudinal elasticity approx. 60%

PU = 15 or 25 meter roll



Width	Colour	Item-No.
25 mm	white-blue stripes	61T15



## Elastic Garter Strap

- Material**
- 78% viscose and 22% rubber

- Area-measured material**
- woven with reinforced selvedge
  - medium-strong quality with smooth surface
  - longitudinal elasticity approx. 60%

PU = 25 meter roll



Width	Colour	Item-No.
20 mm	white	66T10/20W
20 mm	peach	66T10/20H
20 mm	black	66T10/20S
30 mm	peach	66T10/30H
30 mm	black	66T10/30S



## Elastic Garter Strap

**Material**

- 84% polyamide and 16% rubber

**Area-measured material**

- woven
- medium-strong quality with velvety surface on both sides
- longitudinal elasticity approx. 100%

PU = 25 meter roll



Width	Colour	Item-No.
20 mm	white	66T12/20W
20 mm	peach	66T12/20H
30 mm	white	66T12/30W



## Elastic Adhesive Strap

**Material**

- 42% polyamide (nylon), 39% polyamide (helanca) and 19% elasthane

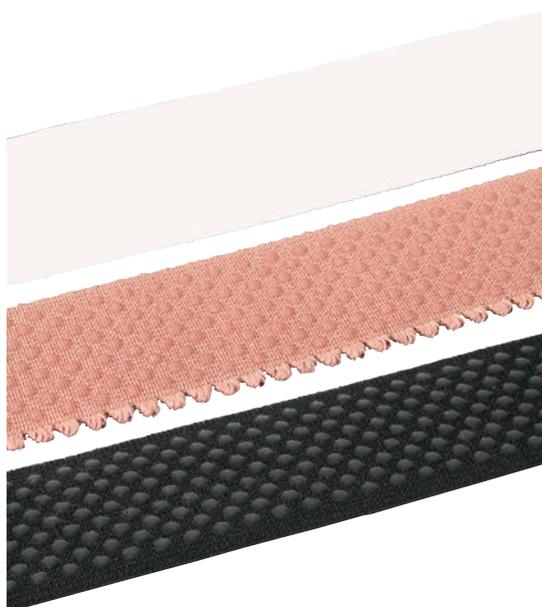
**Area-measured material**

- woven with scallop on one side
- soft, smooth quality
- punctual silicone coating
- longitudinal elasticity approx. 90%

**Recommendation**

- Do not iron the silicone side of the strap!

PU = 5, 10 or 50 meter roll



Width	Colour	Item-No.
50 mm	white	66T15/50W
50 mm	peach	66T15/50H
50 mm	black	66T15/50S



## Garter

### Material

- strap: 62% polyamide (helanca), 27% polyamide (nylon) and 11% elasthane (lycra)
- flap: iron with miralloy coating (nickel-free)
- velvet: plastic

### Note

- wash in a mesh bag

PU = 10 pairs



Width	Colour	Item-No.
20 mm	white	67T11/20W
20 mm	peach	67T11/20H
20 mm	black	67T11/20S
30 mm	white	67T11/30W
30 mm	peach	67T11/30H
30 mm	black	67T11/30S



## Garter

### Material

- strap: 62% polyamide (helanca), 27% polyamide (nylon) and 11% elasthane (lycra)
- flap: iron with miralloy coating (nickel-free)
- velvet: iron with miralloy coating (nickel-free)

### Note

- wash in a mesh bag

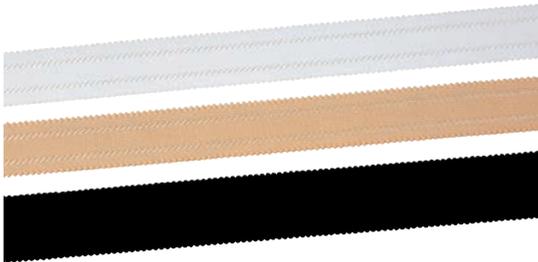
PU = 10 pairs



Width	Colour	Item-No.
20 mm	white	67T12/20W
20 mm	peach	67T12/20H
30 mm	white	67T12/30W
30 mm	peach	67T12/30H



## Elastic Halter Strap



### Material

- 62% polyamide (helanca), 27% polyamide (nylon) and 11% elasthane (ycra)

### Area-measured material

- woven with scallop
- woven, shiny stripes
- medium-strong quality
- waveless, soft surface
- longitudinal elasticity approx. 80%

PU = 25 meter roll

Width	Colour	Item-No.
20 mm	white	68T9/20W
20 mm	peach	68T9/20H
20 mm	black	68T9/20S
25 mm	white	68T9/25W
25 mm	peach	68T9/25H
25 mm	black	68T9/25S



## Elastic Thigh Strap with Button Holes



### Material

- 87% viscose and 13% rubber

### Area-measured material

- woven
- both sides roughed up
- soft, medium-strong quality
- medial button holes, length approx. 7 mm
- longitudinal elasticity approx. 90%

PU = 25 meter roll

Width	Colour	Item-No.
18 mm	white	69T1/18W



## Elastic Thigh Strap with Button Holes



### Material

- 89% viscose and 11% rubber

### Area-measured material

- woven
- soft, medium-strong quality
- shiny surface
- medial button holes, length approx. 7 mm
- longitudinal elasticity approx. 80%

PU = 25 meter roll

Width	Colour	Item-No.
15 mm	peach	69T11/15H
15 mm	black	69T11/15S
20 mm	white	69T11/20W
20 mm	peach	69T11/20H
20 mm	black	69T11/20S



## Elastic Trim Strap

### Material

- 80% viscose and 20% rubber

### Area-measured material

- woven with fine rip structure
- indicated folded edge in the middle
- light quality
- slightly shiny surface
- longitudinal elasticity approx. 110%

PU = 25 meter roll



Width	Colour	Item-No.
20 mm	white	73T1/W
20 mm	peach	73T1/H
20 mm	black	73T1/S



## Elastic Trim Strap

### Material

- 95% viscose and 5% rubber

### Area-measured material

- woven
- folded edge in the middle in high gear
- medium-strong quality
- very shiny, smooth surface
- longitudinal elasticity approx. 110%

PU = 25 meter roll



Width	Colour	Item-No.
20 mm	white	73T5/W
20 mm	peach	73T5/H
20 mm	black	73T5/S



## Elastic Trim Strap

### Material

- 91% viscose and 9% rubber

### Area-measured material

- woven with fine rip structure
- both layers are fixated medially
- light quality
- shiny surface
- longitudinal elasticity approx. 70%

PU = 25 meter roll



Width	Colour	Item-No.
22 mm	white	73T7/W
22 mm	peach	73T7/H
22 mm	black	73T7/S



## Elastic Trim Strap

### Material

- 83% viscose, 9% rubber and 8% polyamide (helanca)

### Area-measured material

- woven with fine rip structure
- slightly indicated folded edge
- light quality
- shiny surface
- one half with velvety surface
- longitudinal elasticity approx. 110%

PU = 25 meter roll



Width	Colour	Item-No.
20 mm	white	73T17/W
20 mm	peach	73T17/H
20 mm	black	73T17/S



## Elastic Trim Strap

application range e.g. for neoprene supports

### Material

- 88% polyester and 12% elasthane (dorlastane)

### Area-measured material

- woven
- blue stipes in the middle
- indicated folded edge
- waveless, light quality
- longitudinal elasticity approx. 100%

PU = 25 meter roll



Width	Colour	Item-No.
25 mm	black-blue	73T8



## Elastic Trim Strap

### Material

- 80% viscose, 12% rubber and 8% polyamide (helanca)

### Area-measured material

- woven
- picot edging on one side
- light quality
- velvety surface on one side
- longitudinal elasticity approx. 110%

PU = 25 meter roll



Width	Colour	Item-No.
16 mm	white	73T13/W
16 mm	peach	73T13/H
16 mm	black	73T13/S



## Elastic Trim Strap

### Material

- 83% viscose, 10% rubber and 7% polyamide (helanca)

### Area-measured material

- woven
- one side with reinforced selvedge, one side with little scallop
- light, soft quality
- velvety surface
- longitudinal elasticity approx. 100%

PU = 25 meter roll



Width	Colour	Item-No.
15 mm	white	73T16/W
15 mm	peach	73T16/H
15 mm	black	73T16/S

## Elastic Trim Strap



### Material

- 46 % polyamide (Nylon), 44 % viscose and 10 % rubber

### Area-measured material

- woven
- light, soft quality
- velvety surface
- longitudinal elasticity approx. 120%

PU = 25 meter roll

Width	Colour	Item-No.
11 mm	peach	73T14/11H
16 mm	white	73T14/16W
16 mm	peach	73T14/16H
16 mm	black	73T14/16S



## Elasticated Strap



### Material

- 82% rubber and 18% polyester

### Area-measured material

- extendability approx. 120%

PU = 25, 50 or 100 meter roll

Width	Colour	Item-No.
7 mm	white	71T9/W



## Elastic Lace



### Material

- 78 % rubber and 22 % polyester

### Area-measured material

- extendability approx. 130 %

PU = 25, 50 or 100 meter roll

Width	Colour	Item-No.
3 mm	white	79T1/W



## „Drell“ Weave



### Material

- 100% cotton

### Area-measured material

- woven
- finished
- little-patterned, fine heringbone weave

### Recommendation

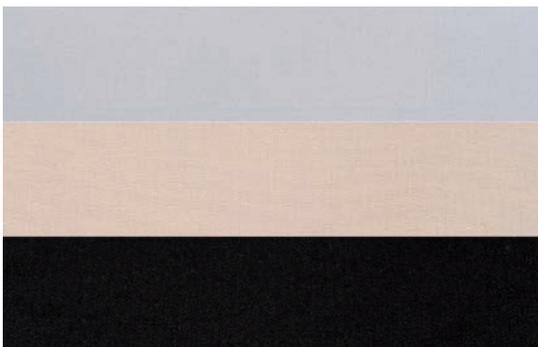
- iron with steam
- webbing strap item 2T25S/H

PU = meter, double fold

Width	Colour	Weight	Item-No.
140 cm	peach	320 g/gm	2T25/H



## „Drell“ Weave



### Material

- 100% cotton

### Area-measured material

- woven
- finished
- little-patterned, fine heringbone weave

### Recommendation

- iron with steam
- webbing strap item 52T4

PU = meter, double fold

Width	Colour	Weight	Item-No.
140 cm	white	280 g/gm	2T24/W
140 cm	peach	280 g/gm	2T24/H
140 cm	black	280 g/gm	2T24/S



## „Drell“ Weave



### Material

- 100% cotton

### Area-measured material

- woven
- finished
- little-patterned, fine heringbone weave

### Recommendation

- iron with steam
- webbing strap item 52T4

PU = meter, double fold

Width	Colour	Weight	Item-No.
140 cm	peach	260 g/gm	2T23/H



## „Drell“ Lining Cloth



**Material**

- 100% cotton

**Area-measured material**

- woven
- finished
- little-patterned, fine heringbone weave

**Recommendation**

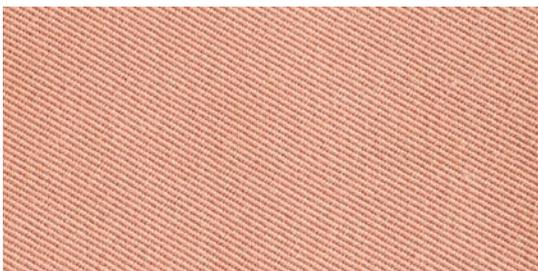
- iron with steam

PU = meter, double fold

Width	Colour	Weight	Item-No.
140 cm	peach	195 g/gm	2T22/H



## „Koeper“ Weave



**Material**

- 65% polyester and 35% cotton

**Area-measured material**

- woven
- finished
- twill weave

**Recommendation**

- iron with steam
- webbing strap item 52T6

PU = meter, double fold

Width	Colour	Weight	Item-No.
140 cm	peach	270 g/gm	2T26/H



## Lining Cloth



**Material**

- 100% cotton

**Area-measured material**

- woven
- finished
- plain weave
- residual shrinkage approx. 6%
- light quality

**Recommendation**

- iron with steam

PU = meter, double fold

Width	Colour	Weight	Item-No.
140 cm	white	143 g/gm	6T5/W
140 cm	peach	143 g/gm	6T5/H
140 cm	black	143 g/gm	6T5/S



## Diamond-Satin Cloth



### Material

- 63% viscose and 37% cotton

### Area-measured material

- woven
- finished
- twill weave
- medium-strong quality with slightly shiny surface

### Recommendation

- iron with steam
- wedding strap item 12T4S/H

PU = meter, double fold

Width	Colour	Weight	Item-No.
140 cm	peach	305 g/gm	12T4/H
140 cm	white	305 g/gm	12T4/W



## „Satin“ Cloth



### Material

- 53% viscose and 47% cotton

### Area-measured material

- woven
- satin weave
- medium-strong quality
- very shiny surface

PU = meter, double fold

Width	Colour	Weight	Item-No.
140 cm	white	320 g/qm	12T5/W
140 cm	peach	320 g/gm	12T5/H
140 cm	black	320 g/gm	12T5/S



## Weave for Abdominal Support



### Material

- 100% cotton

### Area-measured material

- woven
- finished
- plain weave in striped look
- medium-strong quality

### Recommendation

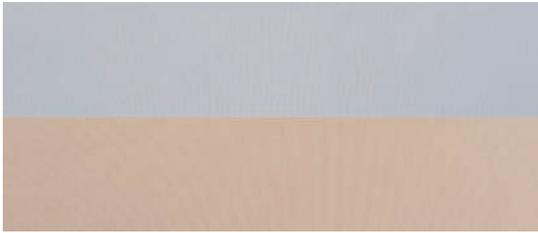
- iron with steam
- webbing strap 4T7S/H

PU = meter, double fold

Width	Colour	Weight	Item-No.
140 cm	white	270 g/gm	4T7/W
140 cm	peach	270 g/qm	4T7/H



## „Stretch-Charmeuse“ Weave



**Material**

- 100% polyamide

**Area-measured material**

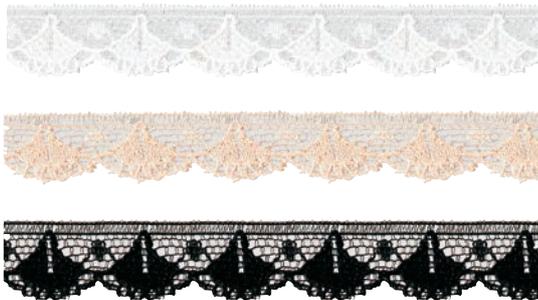
- knit
- finished
- light, soft quality
- smooth surface
- longitudinal elasticity

PU = meter

Width	Colour	Weight	Item-No.
145 cm	peach	120 g/gm	15T4/H
145 cm	white	120 g/gm	15T4/W



## Perlon-Lace Ribbon



**Material**

- 100% polyamide

**Area-measured material**

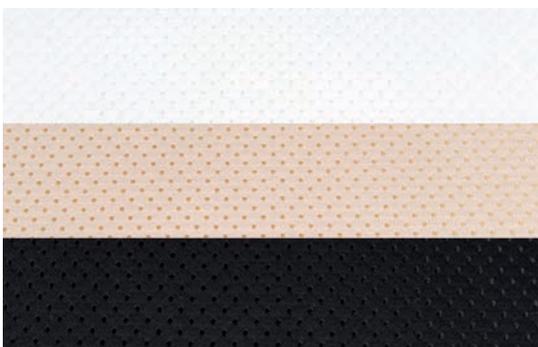
- non elastic rassel lace
- residual shrinkage in length and transverse approx. 6%

PU = 25 meter and 50 meter roll

Width	Colour	Item-No.
12 mm	white	41T7/W
12 mm	peach	41T7/H
12 mm	black	41T7/S



## „Jacquard“ Cloth



**Material**

- 81% cotton and 19% viscose

**Area-measured material**

- woven
- finished
- jacquard weave with dot pattern

**Recommendation**

- iron with steam
- webbing strap item 22T23S/W, 22T23S/H, 22T23S/S

PU = meter, double fold

Width	Colour	Weight	Item-No.
140 cm	white	320 g/qm	22T23/W
140 cm	peach	320 g/qm	22T23/H
140 cm	black	320 g/qm	22T23/S



## „Jacquard“ Cloth



### Material

- 81% cotton and 19% viscose

### Area-measured material

- woven
- finished
- jacquard weave with woven rose pattern

### Recommendation

- iron with steam
- webbing strap item 22T8S/W, 22T8S/S

PU = meter, double fold

Width	Colour	Weight	Item-No.
140 cm	white	280 g/qm	22T8/W
140 cm	black	280 g/qm	22T8/S



## „Jacquard“ Cloth



### Material

- 56% cotton and 44% viscose

### Area-measured material

- woven
- finished
- jacquard weave with woven diamond pattern

### Recommendation

- iron with steam
- webbing strap 22T40S/H

PU = meter, double fold

Width	Colour	Weight	Item-No.
140 cm	peach	280 g/qm	22T40/H



## „Jacquard“ Cloth



### Material

- 81% cotton and 19% viscose

### Area-measured material

- woven
- finished
- jacquard weave with woven dot pattern in two colours (white/copper)

### Recommendation

- iron with steam
- webbing strap item 22T76S/H

PU = meter, double fold

Width	Colour	Weight	Item-No.
140 cm	peach	320 g/qm	22T76/H



## „Jacquard“ Cloth



### Material

- 59% cotton and 41% viscose

### Area-measured material

- woven
- finished
- jacquard weave with woven flower twines in two colours (white/olive)

### Recommendation

- iron with steam
- webbing strap item 22T77S/H

PU = meter, double fold

Width	Colour	Weight	Item-No.
140 cm	peach	270 g/qm	22T77/H



## „Jacquard“ Cloth



### Material

- 81% cotton and 19% viscose

### Area-measured material

- woven
- finished
- jacquard weave with woven diamond pattern in two colours (white/copper)

### Recommendation

- iron with steam
- webbing strap item 22T78S/H

PU = meter, double fold

Width	Colour	Weight	Item-No.
140 cm	peach	325 g/qm	22T78/H



## „Jaquard“ Cloth



### Material

- 76% cotton und 24% viscose

### Area-measured material

- woven
- finished

### Recommendation

- iron with steam
- webbing strap item 22T73S/H

PU = meter, double fold

Width	Colour	Weight	Item-No.
140 cm	peach	509 g/qm	22T73/H



## Terry Cloth



### Material

- 100% cotton

### Area-measured material

- knit
- terry cloth with loops on one side, height approx. 1 mm
- light, soft quality
- stretchable

### Recommendation

- iron on the bottom side

PU = meter

Width	Colour	Weight	Item-No.
145 cm	white	190 g/sqm	9T2/W
145 cm	peach	190 g/sqm	9T2/H
145 cm	dark blue	190 g/sqm	9T2/B
145 cm	grey	190 g/sqm	9T2/G



## Elastic-Single-Jersey Cloth



### Material

- 96% cotton and 4% elasthane

### Area-measured material

- knit
- knit ware on both sides
- light, soft quality
- stretchable

PU = meter

Width	Colour	Weight	Item-No.
145 cm	white	165 g/qm	8T10



## Pressed Cotton Fibre „Molton“



### Material

- 100% cotton

### Area-measured material

- woven
- roughed up on both sides
- medium-heavy, soft quality
- residual shrinkage approx. 10%

PU = meter, double fold

Width	Colour	Weight	Item-No.
150 cm	white	230 g/sqm	29T1/W



## Pressed Cotton Fibre „Molton“



### Material

- 100% cotton

### Area-measured material

- woven
- double weave, roughed up on both sides
- heavy, soft quality
- residual shrinkage approx. 10%

PU = meter, double fold

Width	Colour	Weight	Item-No.
150 cm	natural white	320 g/sqm	29T2/W



## Pressed Cotton Fibre „Molton“



### Material

- 100% cotton

### Area-measured material

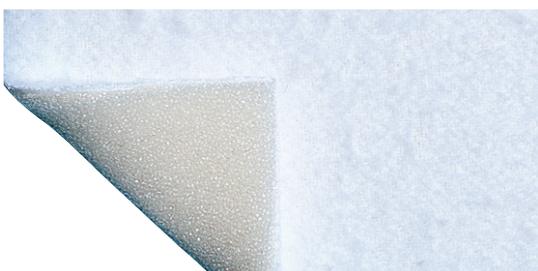
- woven
- double weave, roughed up on both sides
- very heavy, soft quality
- residual shrinkage approx. 10%

PU = meter, double fold

Width	Colour	Weight	Item-No.
150 cm	off-white	410 g/sqm	29T4/W



## Pressed Cotton Fibre „Molton“



### Material

- 100% cotton
- 100% polyester (rubber foam)

### Area-measured material

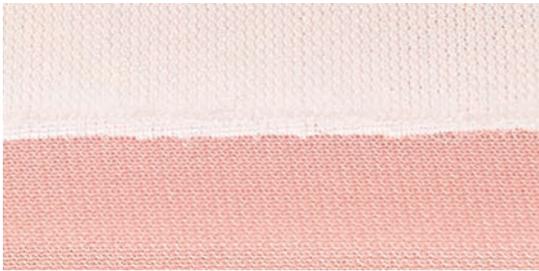
- woven
- double weave, roughed up on one side, one side with rubber foam lamination
- medium-strong, soft quality (230 g/sqm)
- residual shrinkage approx. 10%
- rubber foam lamination 3 mm

PU = meter

Width	Colour	Weight	Item-No.
150 cm	white	350 g/sqm	49T4/W



## „Triplex“ Fabric



### Material

- 75% polyester and 25% cotton

### Area-measured material

- spacer fabrics
- front and back side smooth, without lamination
- material height 3 mm

PU = meter

Width	Colour	Weight	Item-No.
195 cm	white	250 g/sqm	20T1/W
195 cm	peach	250 g/sqm	20T1/H



## Spacer Fabric



### Material

- 94% polyester and 6% elasthane

### Area-measured material

- spacer fabrics
- front and back side smooth, without lamination
- one side stretchable for approx. 90%
- material height 4 mm

PU = meter

Width	Colour	Weight	Item-No.
140 cm	white	470 g/sqm	20T3/W



## Velours



### Material

- front side: 100 % polyamide
- back side: 100 % polyester
- rubber foam: 100 % PUR-soft foam

### Area-measured material

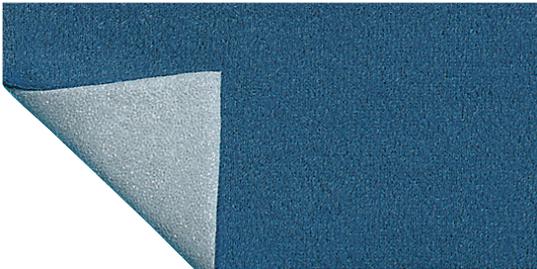
- knit
- rubber foam with lamination on both sides
- front surface: suitable to cling to hook- and loop fasteners
- back surface: soft fleece
- material height 5 mm

PU = meter

Width	Colour	Weight	Item-No.
145 cm	white	340 g/sqm	49T9/W



## „Nylon-Velours“ Polyester Fabric



### Material

- 100% polyester

### Area-measured material

- knit
- rubber foam with lamination on one side
- velour suitable for velcro connection
- material height 4 mm

PU = meter

Width	Colour	Weight	Item-No.
145 cm	blue	400 g/sqm	49T5/BL



## Lining Cloth for Orthoses



### Material

- rubber foam and velours: 100% polyester
- terry cloth: 100% cotton

### Area-measured material

- knit
- rubber foam with lamination on both sides
- velours suitable for velcro connection
- terry cloth highly absorbent
- material height 7 mm

PU = meter

Width	Colour	Weight	Item-No.
150 cm	blue/grey	600 g/sqm	49T6



## Foam with Fabric Cover on Both Sides



### Material

- front side: 100 % polyamide, black
- back side: 100 % cotton, grey
- foam: 100 % PUR-ester

### Area-measured material

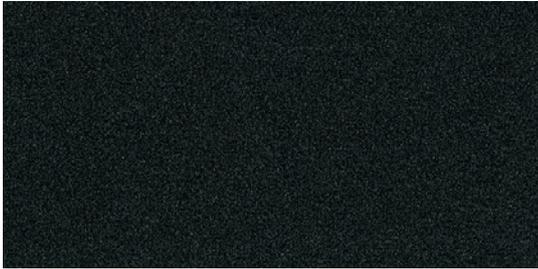
- knit
- rubber foam with lamination on both sides
- front side suitable for velcro connection, black
- back side with 100 % cotton jersey, grey
- material height 10 mm

PU = meter

Width	Colour	Weight	Item-No.
150 cm	black/grey	700 g/sqm	49T8



## Lining Cloth for Bucket-Seats



### Material

- front side: 100 % polyamide
- back side: 100 % polyester
- rubber foam: 100 % polyurethane

### Area-measured material

- knit
- rubber foam with lamination on both sides
- front side with velour suitable for velcro connection
- back side with thin knit fabric
- material height 2,5 mm

PU = meter

Width	Colour	Weight	Item-No.
140 cm	black	300 g/sqm	26T10



## Anti-Decubitus Fleece



### Material

- 100% polyester

### Area-measured material

- knit
- antistatic
- nap height approx. 23 mm
- sterilizable up to 140° C

PU = meter

Width	Colour	Weight	Item-No.
140 cm	white	1000 g/sqm	26T1/W



## „Alcantara“ Support Fabric



### Material

- 50% polyamide and 50% polyurethane

### Area-measured material

- knit
- synthetic velour leather
- transversal elasticity approx. 40%

### Recommendation

- iron on the bottom side, do not spin-dry

PU = meter

Width	Colour	Weight	Item-No.
140 cm	chamois/beige	210 g/qm	26T3/SÄM
140 cm	blue	210 g/qm	26T3/BL



## Velours Double Sided, Compatible to Velcro



### Material

- outer faces: 73% polyamide
- internal layer: 27% polyurethane

### Area-measured material

- knit
- tensile strength (not dilatable) in both directions
- both sides are compatible to velcro
- permanent join through internal PUR coating
- heavy quality
- easy to cut and to punch

PU = meter

Width	Colour	Weight	Item-No.
135 cm	black	700 g/sqm	26T7/S



## Weave Knop Lining Cloth with Antislip Effect



### Material

- 100% polyester

### Area-measured material

- knit
- punctual anti-slide coating of polyurethane
- light quality with grip
- easy to stretch

PU = meter

Width	Colour	Weight	Item-No.
140 cm	black	220 g/sqm	26T6



## Lining Cloth



### Material

- 100% polyurethane

### Area-measured material

- very soft and pliable
- basic material with coating
- smooth surface
- thickness approx. 1 mm
- tear-resistant
- breathable
- lightfast
- colourfast
- sweat resistant
- humidity resistant

PU = running meter

Width x Thickness	Colour	Weight	Item-No.
approx. 1400 x 1,3 mm	blue	460 g/sqm	110P18/B



## „Muslin“ Cloth



### Material

- 100% cotton

### Area-measured material

- woven
- finished
- plain weave
- tearproof
- open structure
- light quality
- smooth surface

PU = meter, double fold

Width	Colour	Weight	Item-No.
140 cm	off-white	153 g/sqm	8T4



## Velour Lining Cloth



### Material

- 66% cotton and 34% polyester

### Area-measured material

- knit with included low nap
- soft, light quality
- stretchable

### Recommendation

- iron on the bottom side

PU = meter

Width	Colour	Weight	Item-No.
155 cm	blue	220 g/qm	26T20/B
155 cm	yellow	220 g/qm	26T20/G
155 cm	red	220 g/qm	26T20/R
155 cm	black	220 g/qm	26T20/S
155 cm	grey	220 g/qm	26T20/GRA



## Hook and Loop Strap

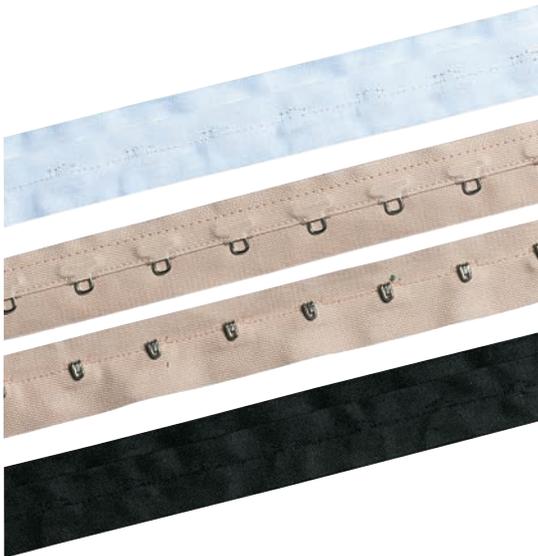
### Material

- 100% cotton
- hooks and loops: spring steel wire coated with polyamide (nickel-free)

### Area-measured material

- woven
- simple version with sewed in hooks and loops
- interspace approx. 3 cm

PU = 10 or 25 meter roll



Description	Colour	Item-No.
Hook strap	white	60T4H/W
Hook strap	peach	60T4H/H
Hook strap	black	60T4H/S
Loop strap	white	60T4A/W
Loop strap	peach	60T4A/H
Loop strap	black	60T4A/S



## Hook and Loop Strap

### Material

- 100 % cotton
- hooks and loops: spring steel wire coated with polyamide (nickel-free)

### Area-measured material

- woven
- simple version with sewed in hooks and loops
- interspace approx. 3 cm
- loop strap with plush/velvet base

PU = 10 or 25 meter roll



Description	Colour	Item-No.
Hook strap	peach	60T16H/H
Loop strap	peach	60T16A/H



## Hook and Loop Strap

### Material

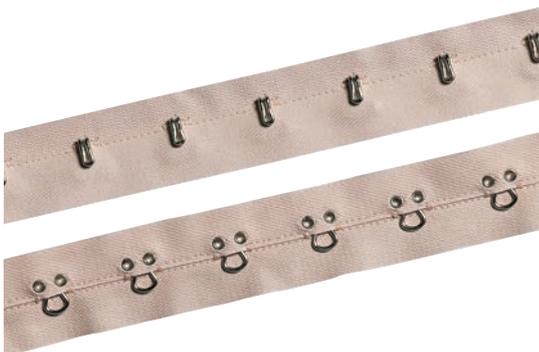
- 100 % cotton
- hooks and loops: spring steel wire coated with polyamide (nickel-free)

### Area-measured material

- woven
- simple version with sewed in hooks and loops
- interspace approx. 3 cm
- loop strap with two rows

PU = 10 or 25 meter roll

Description	Colour	Item-No.
Hook strap	peach	60T10H/H
Loop strap	peach	60T10A/H



## Hook and Loop Strap

### Material

- 100 % cotton
- hooks and loops: spring steel wire, brass, miralloy coating (nickel-free)

### Area-measured material

- woven
- heavy version with big riveted hooks and loops
- interspace approx. 3 cm

PU = 10 or 25 meter roll

Description	Colour	Item-No.
Hook strap	peach	60T8H/H
Loop strap	peach	60T8A/H



## Hook and Loop Strap

### Material

- 100 % cotton
- hooks and loops: spring steel wire, brass, miralloy coating (nickel-free)

### Area-measured material

- woven
- heavy version with big riveted hooks and loops, interspace approx. 3 cm
- loop strap with plush/velvet base

PU = 10 or 25 meter roll

Description	Colour	Item-No.
Hook strap	peach	60T29H/H
Loop strap	peach	60T29A/H



## Hook and Loop Strap



### Material

- 100 % cotton
- hooks and loops: spring steel wire coated with polyamide (nickel-free)

### Area-measured material

- woven
- simple version with sewed hooks and loops, interspace approx. 3 cm
- loop strap with two rows and plush/velvet base
- plush with one open back side

PU = 10 or 25 meter roll

Description	Colour	Item-No.
Hook strap	white	60T19H/W
Hook strap	peach	60T19H/H
Hook strap	black	60T19H/S
Loop strap	white	60T19A/W
Loop strap	peach	60T19A/H
Loop strap	black	60T19A/S



## Hook and Loop Strap



### Material

- 100% cotton
- hooks and loops: spring steel wire coated with polyamide (nickel-free)

### Area-measured material

- woven
- simple version with sewed hooks and loops, interspace approx. 3 cm
- loop strap with three rows and plush/velvet base
- plush with one open back side

PU = 10 or 25 meter roll

Description	Colour	Item-No.
Hook strap	peach	60T33H/H
Loop strap	peach	60T33A/H



## Hook and Loop Strap



### Material

- 100% cotton
- hooks and loops: spring steel wire coated with polyamide (nickel-free)

### Area-measured material

- woven
- simple version with sewed hooks and loops, interspace approx. 3 cm
- loop strap with two rows and plush/velvet base

PU = 10 or 25 meter roll

Description	Colour	Item-No.
Hook strap	peach	60T32H/H
Hook strap	black	60T32H/S
Loop strap	peach	60T32A/H
Loop strap	black	60T32A/S



## Hook and Loop Strap

### Material

- 100% cotton
- back side and inner edge of hook strap consist of velour material
- hooks and loops: spring steel wire coated with polyamide (nickel-free)

### Area-measured material

- woven
- simple version with sewed hooks and loops, interspace approx. 2 cm
- loop strap with two rows

PU = 10 or 25 meter roll

Description	Colour	Item-No.
Hook strap	white	60T31H/W
Hook strap	peach	60T31H/H
Loop strap	white	60T31A/W
Loop strap	peach	60T31A/H



## Hook and Loop Strap

### Material

- 100% polyamide (perlon)
- Hooks and Loops: spring steel wire coated with polyamide (nickel-free)

### Area-measured material

- knit
- simple version with sewed hooks and loops, interspace approx. 2,5 cm

PU = 10 or 25 meter roll

Description	Colour	Item-No.
Hook strap	white	60T9H/W
Hook strap	peach	60T9H/H
Hook strap	black	60T9H/S
Loop strap	white	60T9A/W
Loop strap	peach	60T9A/H
Loop strap	black	60T9A/S



## Hook and Loop Strap



### Material

- 100% polyamide (perlon)
- hooks and loops: spring steel wire coated with polyamide (nickel-free)

### area-measured material

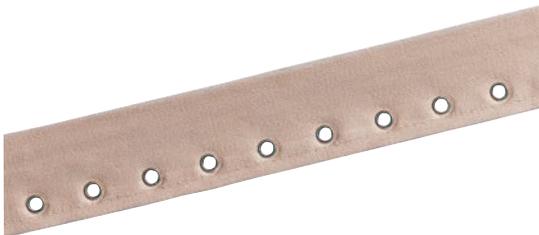
- knit
- simple version with sewed hooks and loops, interspace approx. 2,5 cm
- loop strap with two rows

PU = 10 or 25 meter roll

Description	Colour	Item-No.
Hook strap	peach	60T23H/H
Loop strap	peach	60T23A/H



## Eyelet Strap



### Material

- 100% cotton
- eyelets: spring steel wire, brass, miralloy coating (nickel-free)

### Area-measured material

- woven
- herringbone weave

PU = 25 meter roll

Colour	Item-No.
peach	60T13/H



## Webbing Strap



### Material

- 100% polyester

### Area-measured material

- brushed surface
- woven with solid edge

PU = 25 meter roll

Width	Colour	Item-No.
21 mm	peach	89T7/21H



## Webbing Pre-Cut, Angular Shape

**Material**

- 100% polyester

**Area-measured material**

- brushed surface
- punched edges with zigzag selvedge, respectively scallop

PU = bag of 100 pcs



Width	Length	Colour	Item-No.
21 mm	3 cm	peach	90T3/21H



## Lacing Strap

material sold by meter

**Material**

- 100 % cotton and 100 % polyamide

**Area-measured material**

- tubular braid

PU = 100 meter roll



Width	Colour	Version	Item-No.
4 mm	white	Polyamid	76T8/W
4 mm	peach	Polyamid	76T8/H
4 mm	black	Polyamid	76T8/S
6 mm	white	Cotton	76T16/W
6 mm	peach	Cotton	76T16/H
6 mm	black	Cotton	76T16/S
8 mm	white	Cotton	76T7/W
8 mm	peach	Cotton	76T7/H
8 mm	black	Cotton	76T7/S



## Lace for Prostheses

material sold by meter

**Material**  
 ■ 100 % cotton

**Area-measured material**  
 ■ tubular braid

PU = 100 meter roll



Width	Colour	Item-No.
6 mm	beige	78T4/BG
6 mm	brown	78T4/BR
8 mm	beige	78T5/BG
8 mm	brown	78T5/BR
10 mm	beige	78T6/BG
10 mm	brown	78T6/BR



## Lacing Strap

cut to length

**Material**  
 ■ 100% cotton

**Area-measured material**  
 ■ tubular braid

PU = 1 piece



Width	Length	Colour	Item-No.
5 mm	1,50 m	white	77T5/1,5W
5 mm	1,50 m	peach	77T5/1,5H
5 mm	2,00 m	white	77T5/2,0W
5 mm	2,00 m	peach	77T5/2,0H
5 mm	2,50 m	white	77T5/2,5W
5 mm	2,50 m	peach	77T5/2,5H
5 mm	2,50 m	black	77T5/2,5S
5 mm	3,00 m	white	77T5/3,0W
5 mm	3,00 m	peach	77T5/3,0H
5 mm	3,00 m	black	77T5/3,0S
5 mm	3,50 m	white	77T5/3,5W
5 mm	3,50 m	peach	77T5/3,5H
5 mm	3,50 m	black	77T5/3,5S
5 mm	4,00 m	white	77T5/4,0W
5 mm	4,00 m	peach	77T5/4,0H
5 mm	4,00 m	black	77T5/4,0S



## Perlon Lace

material sold by meter



### Material

- 100% polyamide (perlon)

### Area-measured material

- tubular braid
- thicker quality

PU = 100 meter roll

Width	Colour	Item-No.
8 mm	peach	78T8/H



## Perlon Strap for Orthoses

material sold by meter



### Material

- 100% polyamide (perlon)

### Area-measured material

- tubular braid
- fine quality

PU = 100 meter roll

Width	Colour	Item-No.
7 mm	white	78T7/W
7 mm	peach	78T7/H
7 mm	black	78T7/S
7 mm	brown	78T7/BR



## „Synton“ Polyester Thread



### Material

- 100% polyester
- multi-filament twisted yarn
- brilliant fibre type
- high tear- and abrasion resistance

### Making-up

- kingspool

PU = 1 roll

Colour	Length	Description	Recommended needle size	Item-No.
white	600 m	Serafil No. 20	120-140	91T9/20W
peach	600 m	Serafil No. 20	120-140	91T9/20H
yellow	600 m	Serafil No. 20	120-140	91T9/20GB
black	600 m	Serafil No. 20	120-140	91T9/20S
white	900 m	Serafil No. 30	110-130	91T9/30W
peach	900 m	Serafil No. 30	110-130	91T9/30H
golden	900 m	Serafil No. 30	110-130	91T9/30GO
brown	900 m	Serafil No. 30	110-130	91T9/30BR
blue	900 m	Serafil No. 30	110-130	91T9/30BL
red	900 m	Serafil No. 30	110-130	91T9/30R
black	900 m	Serafil No. 30	110-130	91T9/30S
white	1800 m	Serafil No. 60	80-100	91T9/60W
peach	1800 m	Serafil No. 60	80-100	91T9/60H
yellow	1800 m	Serafil No. 60	80-100	91T9/60GB
blue	1800 m	Serafil No. 60	80-100	91T9/60BL
red	1800 m	Serafil No. 60	80-100	91T9/60R
black	1800 m	Serafil No. 60	80-100	91T9/60S



### Recommendation

**Serafil No. 20:** Thicker thread size for especially heavy-weight material and thicker leather.

**Serafil No. 30:** Medium thread suitable for shoes, cushionings, leather and technical fabrics.

**Serafil No. 60:** Fine thread size for gloves, shoes, cushionings, zippers and multi-needle quilting.



## Polyester/Cotton Thread

functional sewing thread for diverse applications



### Material

- 70% polyester und 30% cotton
- polyester yarn braided with cotton

### Making-up

- PU = cone (2000 m, 2750 m or 5000 m)
- PU = crosswinding spool (1000 m)

Colour	Length	Description	Recommended needle size	Item-No.
white	2750 m	Rasant 25/3	130-160	91T7/25W
peach	2750 m	Rasant 25/3	130-160	91T7/25H
medium blue	2750 m	Rasant 25/3	130-160	91T7/25B
black	2750 m	Rasant 25/3	130-160	91T7/25S
red	2750 m	Rasant 25/3	130-160	91T7/25R
golden yellow	2750 m	Rasant 25/3	130-160	91T7/25GB
dark brown	2750 m	Rasant 25/3	130-160	91T7/25BR
medium grey	2750 m	Rasant 25/3	130-160	91T7/25G
off-white	2000 m	Rasant 25/3	130-160	91T7/25ROH
white	1000 m	Rasant 50/3	100-110	91T7/50W
peach	1000 m	Rasant 50/3	100-110	91T7/50H
medium blue	1000 m	Rasant 50/3	100-110	91T7/50B
black	1000 m	Rasant 50/3	100-110	91T7/50S
red	1000 m	Rasant 50/3	100-110	91T7/50R
golden yellow	1000 m	Rasant 50/3	100-110	91T7/50GB
dark brown	1000 m	Rasant 50/3	100-110	91T7/50BR
medium grey	1000 m	Rasant 50/3	100-110	91T7/50G
off-white	1000 m	Rasant 50/3	100-110	91T7/50ROH
white	5000 m	Rasant 50/3	100-110	91T7/50WC
peach	5000 m	Rasant 50/3	100-110	91T7/50HC
white	1000 m	Rasant 75/2	90-100	91T7/75W
peach	1000 m	Rasant 75/2	90-100	91T7/75H
medium blue	1000 m	Rasant 75/2	90-100	91T7/75B
black	1000 m	Rasant 75/2	90-100	91T7/75S
red	1000 m	Rasant 75/2	90-100	91T7/75R
golden yellow	1000 m	Rasant 75/2	90-100	91T7/75GB
dark brown	1000 m	Rasant 75/2	90-100	91T7/75BR
medium grey	1000 m	Rasant 75/2	90-100	91T7/75G
off-white	1000 m	Rasant 75/2	90-100	91T7/75ROH
white	5000 m	Rasant 75/2	90-100	91T7/75WC
peach	5000 m	Rasant 75/2	90-100	91T7/75HC



### Recommendation

**Rasant 25/3:** Thicker thread size, for highly stressed and decorative seams on leather, heavy duty fabric, for example tents and tarpaulin.

**Rasant 50/3:** Medium thread thickness, suitable for highly stressed seams on leather, denim and cushions.

**Rasant 75/2:** Finer thread size for example for clothing, mattresses, cushions, quilts. Also suitable for upper threads for embroidery.



## Cotton Yarn „Kette“ 40/3

fine thread size, dyeable, serves as a sewing, finishing seam, decorative and button hole yarn

### Material

100% cotton mercerized, long staple  
firm, brilliant fibre type

### Making-up

- PU = crosswinding spool (500 m)
- PU = cone (5000 m)



Colour	Length	Description	Recommended needle size	Item-No.
white	500 m	Kette 40/3	90-100	91T14/1W
peach	500 m	Kette 40/3	90-100	91T14/1H
black	500 m	Kette 40/3	90-100	91T14/1S
grey	500 m	Kette 40/3	90-100	91T14/1G
white	5000 m	Kette 40/3	90-100	91T14/5W
peach	5000 m	Kette 40/3	90-100	91T14/5H
black	5000 m	Kette 40/3	90-100	91T14/5S

 Suitable for clothing, articles of corsetry, underwear and household textiles.

## Waxed Linen Thread for Sewing Machines

### Material

- 100% linen, appretiert
- firm, smooth, brilliant fibre type

### Making-up

- PU = crosswinding spool



Colour	Length	Description	Recommended needle size	Item-No.
natural grey	880 m	18/3	150-170	96T2/3RH
yellow	880 m	18/3	150-170	96T2/3GB
brown	880 m	18/3	150-170	96T2/3BR
natural grey	650 m	18/4	180-200	96T2/4RH
yellow	650 m	18/4	180-200	96T2/4GB
brown	650 m	18/4	180-200	96T2/4BR
natural grey	440 m	18/6	210-230	96T2/6RH
yellow	440 m	18/6	210-230	96T2/6GB
brown	440 m	18/6	210-230	96T2/6BR



## Linen Thread for Sewing Machines

### Material

- 100% linen, appretiert
- fester, glänzender Fasertyp

### Aufmachung

- VE = 1 Plastikrolle

Colour	Length	Description	Recommended needle size	Item-No.
natural grey	290 m	30/3	110-130	97T2/30RH
natural grey	400 m	40/3	100-120	97T2/40RH
white	400 m	40/3	100-120	97T2/40W
natural grey	470 m	50/3	100-110	97T2/50RH
natural grey	540 m	60/3	80-100	97T2/60RH
yellow	540 m	60/3	80-100	97T2/60GB



### Empfehlung

[Nähmaschinenzwirn 30/3: Mittlere Fadenstärke.](#)

[Nähmaschinenzwirn 40/3: Feine Fadenstärke.](#)

[Nähmaschinenzwirn 50/3: Feine Fadenstärke](#)

[Nähmaschinenzwirn 60/3: Besonders feine Fadenstärke.](#)



## Tying Cord

### Material

- 100 % natural fibers (flax, hemp)

PU = 1 roll

Roll	Colour	Item-No.
160 g	beige-grey	99T3

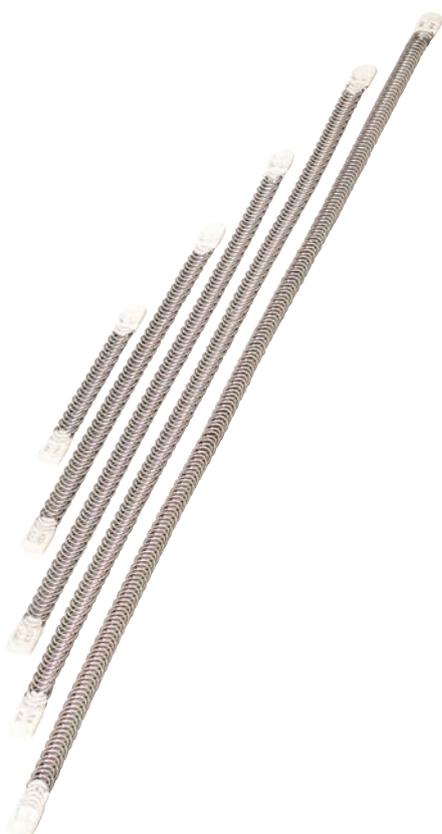


## Buckle

made of spring band steel, plastic coating, colour: white

PU = 1 piece

Length	Item-No.
20 cm	56P3/20
22 cm	56P3/22
24 cm	56P3/24
26 cm	56P3/26
28 cm	56P3/28
30 cm	56P3/30
32 cm	56P3/32
34 cm	56P3/34
36 cm	56P3/36



## Spiral Coil with Plastic Caps

zinc-plated, sewable plastic ends, material thickness 0,9 mm

PU = bunch of 30 pcs

Length x Width	Item-No.
10 cm x 11 mm	50P22/10
12 cm x 11 mm	50P22/12
14 cm x 11 mm	50P22/14
16 cm x 11 mm	50P22/16
18 cm x 11 mm	50P22/18
20 cm x 11 mm	50P22/20
22 cm x 11 mm	50P22/22
24 cm x 11 mm	50P22/24
26 cm x 11 mm	50P22/26
28 cm x 11 mm	50P22/28
30 cm x 11 mm	50P22/30
32 cm x 11 mm	50P22/32
34 cm x 11 mm	50P22/34
36 cm x 11 mm	50P22/36
38 cm x 11 mm	50P22/38
40 cm x 11 mm	50P22/40
42 cm x 11 mm	50P22/42
44 cm x 11 mm	50P22/44
46 cm x 11 mm	50P22/46
48 cm x 11 mm	50P22/48
50 cm x 11 mm	50P22/50



## Spiral Coil with Metal Caps

zinc-plated, material thickness 0,75 mm

PU = bunch of 30 pcs

Length x Width	Item-No.
10 cm x 5 mm	50P5/10
12 cm x 5 mm	50P5/12
14 cm x 5 mm	50P5/14
16 cm x 5 mm	50P5/16
18 cm x 5 mm	50P5/18
20 cm x 5 mm	50P5/20
22 cm x 5 mm	50P5/22
24 cm x 5 mm	50P5/24
26 cm x 5 mm	50P5/26
28 cm x 5 mm	50P5/28
30 cm x 5 mm	50P5/30
32 cm x 5 mm	50P5/32
34 cm x 5 mm	50P5/34
36 cm x 5 mm	50P5/36
38 cm x 5 mm	50P5/38
40 cm x 5 mm	50P5/40
42 cm x 5 mm	50P5/42
44 cm x 5 mm	50P5/44
46 cm x 5 mm	50P5/46
48 cm x 5 mm	50P5/48
8 cm x 7 mm	50P7/8
10 cm x 7 mm	50P7/10
12 cm x 7 mm	50P7/12
14 cm x 7 mm	50P7/14
16 cm x 7 mm	50P7/16
18 cm x 7 mm	50P7/18
20 cm x 7 mm	50P7/20
22 cm x 7 mm	50P7/22
24 cm x 7 mm	50P7/24
26 cm x 7 mm	50P7/26
28 cm x 7 mm	50P7/28
30 cm x 7 mm	50P7/30
32 cm x 7 mm	50P7/32
34 cm x 7 mm	50P7/34
36 cm x 7 mm	50P7/36
38 cm x 7 mm	50P7/38
40 cm x 7 mm	50P7/40
42 cm x 7 mm	50P7/42
44 cm x 7 mm	50P7/44
46 cm x 7 mm	50P7/46
48 cm x 7 mm	50P7/48



## Spiral Coil with Metal Caps

zinc-plated, material thickness 0,9 mm

PU = bunch of 30 pcs

Length x Width	Item-No.
6 cm x 11 mm	50P11/6
8 cm x 11 mm	50P11/8
10 cm x 11 mm	50P11/10
12 cm x 11 mm	50P11/12
14 cm x 11 mm	50P11/14
16 cm x 11 mm	50P11/16
18 cm x 11 mm	50P11/18
20 cm x 11 mm	50P11/20
22 cm x 11 mm	50P11/22
24 cm x 11 mm	50P11/24
26 cm x 11 mm	50P11/26
28 cm x 11 mm	50P11/28
30 cm x 11 mm	50P11/30
32 cm x 11 mm	50P11/32
34 cm x 11 mm	50P11/34
36 cm x 11 mm	50P11/36
38 cm x 11 mm	50P11/38
40 cm x 11 mm	50P11/40
42 cm x 11 mm	50P11/42
44 cm x 11 mm	50P11/44
46 cm x 11 mm	50P11/46
48 cm x 11 mm	50P11/48



## Stainless Steel Strip „Cellon“

spring ends are plastic coated, colour: white

Material thickness item 53P5: 0,4 mm

Material thickness item 53P7: 0,5 mm

PU = bunch of 30 pcs

Length x Width	Item-No.
8 cm x 5 mm	53P5/8W
10 cm x 5 mm	53P5/10W
12 cm x 5 mm	53P5/12W
14 cm x 5 mm	53P5/14W
16 cm x 5 mm	53P5/16W
18 cm x 5 mm	53P5/18W
20 cm x 5 mm	53P5/20W
22 cm x 5 mm	53P5/22W
24 cm x 5 mm	53P5/24W
26 cm x 5 mm	53P5/26W
28 cm x 5 mm	53P5/28W
30 cm x 5 mm	53P5/30W
32 cm x 5 mm	53P5/32W
34 cm x 5 mm	53P5/34W
36 cm x 5 mm	53P5/36W
38 cm x 5 mm	53P5/38W
40 cm x 5 mm	53P5/40W
42 cm x 5 mm	53P5/42W
44 cm x 5 mm	53P5/44W
46 cm x 5 mm	53P5/46W
48 cm x 5 mm	53P5/48W
10 cm x 7 mm	53P7/10W
12 cm x 7 mm	53P7/12W
14 cm x 7 mm	53P7/14W
16 cm x 7 mm	53P7/16W
18 cm x 7 mm	53P7/18W
20 cm x 7 mm	53P7/20W
22 cm x 7 mm	53P7/22W
24 cm x 7 mm	53P7/24W
26 cm x 7 mm	53P7/26W
28 cm x 7 mm	53P7/28W
30 cm x 7 mm	53P7/30W
32 cm x 7 mm	53P7/32W
34 cm x 7 mm	53P7/34W
36 cm x 7 mm	53P7/36W
38 cm x 7 mm	53P7/38W
40 cm x 7 mm	53P7/40W
42 cm x 7 mm	53P7/42W
44 cm x 7 mm	53P7/44W
46 cm x 7 mm	53P7/46W
48 cm x 7 mm	53P7/48W
50 cm x 7 mm	53P7/50W

## Stainless Steel Strip „Cellon“

spring ends are plastic coated, colour: white, material thickness 0,4 mm

PU = bunch of 30 pcs



Length x Width	Item-No.
8 cm x 12 mm	53P12/8W
10 cm x 12 mm	53P12/10W
12 cm x 12 mm	53P12/12W
14 cm x 12 mm	53P12/14W
16 cm x 12 mm	53P12/16W
18 cm x 12 mm	53P12/18W
20 cm x 12 mm	53P12/20W
22 cm x 12 mm	53P12/22W
24 cm x 12 mm	53P12/24W
26 cm x 12 mm	53P12/26W
28 cm x 12 mm	53P12/28W
30 cm x 12 mm	53P12/30W
32 cm x 12 mm	53P12/32W
34 cm x 12 mm	53P12/34W
36 cm x 12 mm	53P12/36W
38 cm x 12 mm	53P12/38W
40 cm x 12 mm	53P12/40W
42 cm x 12 mm	53P12/42W
44 cm x 12 mm	53P12/44W
46 cm x 12 mm	53P12/46W
48 cm x 12 mm	53P12/48W
50 cm x 12 mm	53P12/50W



## Coil Strip „Wigona“

strong version, spring ends are plastic coated, colour: white, material thickness 1,2 mm

PU = 1 piece

Length x Width	Item-No.
12 cm x 15 mm	51P1/12
14 cm x 15 mm	51P1/14
16 cm x 15 mm	51P1/16
18 cm x 15 mm	51P1/18
20 cm x 15 mm	51P1/20
22 cm x 15 mm	51P1/22
24 cm x 15 mm	51P1/24
26 cm x 15 mm	51P1/26
28 cm x 15 mm	51P1/28
30 cm x 15 mm	51P1/30
32 cm x 15 mm	51P1/32
34 cm x 15 mm	51P1/34
36 cm x 15 mm	51P1/36
38 cm x 15 mm	51P1/38
40 cm x 15 mm	51P1/40
42 cm x 15 mm	51P1/42
44 cm x 15 mm	51P1/44
46 cm x 15 mm	51P1/46
48 cm x 15 mm	51P1/48

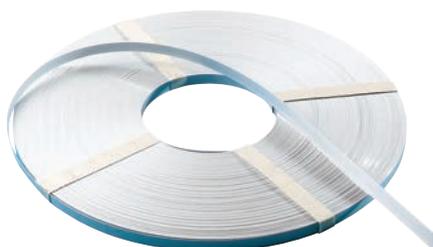


## Steel Spiral Strip, endless

zinc plated

PU = 1 roll

Length m/kg x Width	Kg/roll	Item-No.
approx. 35 m x 5 mm	approx. 2 kg	50P5E
approx. 28 m x 7 mm	approx. 2 kg	50P7E
approx. 17 m x 11 mm	approx. 3 kg	50P11E



## Steel Strip „Cellon“, endless

with plastic coating, white colour, material thickness 0,4 mm

PU = 1 roll (approx. 2 kg)

Length m/kg x Width	Item-No.
approx. 23 m x 12 mm	53P12EW



## „Desira“ Plastic Strap, endless

sewable

PU = 100 meter roll in dispenser box

Length x Width	Item-No.
100 m x 5 mm	52P15E
100 m x 11 mm	52P21E



## Steel Cap for Steel Spiral Strip

PU = 200 g

Width	Description	Item-No.
5 mm	Cap for item 50P5	53P3/5
7 mm	Cap for item 50P7	53P3/7
11 mm	Cap for item 50P11	53P3/11



## Steel Cap for Stainless Steel Strip „Cellon“

PU = 200 g

Width	Description	Item-No.
5 mm	Cap for item 53P5	57P4/5
7 mm	Cap for item 53P7	57P4/7



## Plastic Cap

for spiral strip 50P11 and steel strip „Cellon“ 53P12

PU = 50 pcs and 100 pcs

Width	Item-No.
11 mm	57P6



## Coated Steel Strip with Hook

PU = 50 pcs and 100 pcs

Width x Length	Item-No.
14 mm x 5 cm	55P1/5
14 mm x 6 cm	55P1/6

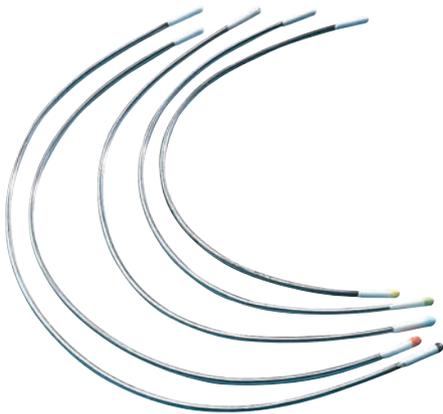


## Elastic Steel Coil, Flat (Bra Insert)

with plastic coating, highly resistant ends

PU = 10 pcs

Size	Item-No.
70	56P8/70
75	56P8/75
80	56P8/80
85	56P8/85
90	56P8/90
95	56P8/95



## Strong Round Steel Coil (Bra Insert)

zinc-plated, highly resistant ends

PU = 10 pcs

Size	Item-No.
70	56P7/70
75	56P7/75
80	56P7/80
85	56P7/85
90	56P7/90
95	56P7/95

## Steel Strap for Bra



pierce-resistant

PU = 25 meter

Width	Colour	Item-No.
3 mm	white	51T30

## Suspender Buckle „Velvet“

with steel clip, flat head, exchangeable strap, long version

PU = 50 pcs



Width	Colour	Item-No.
20 mm	peach	45P20/20H
20 mm	white	45P20/20W
20 mm	black	45P20/20S
30 mm	peach	45P20/30H
30 mm	white	45P20/30W
30 mm	black	45P20/30S

## Cotton Strap

for suspender „Velvet“ with flat button

PU = 50 pcs



Length	Colour	Description	Item-No.
45 mm	peach	Cotton strap short	46P4/H
45 mm	white	Cotton strap short	46P4/W
45 mm	black	Cotton strap short	46P4/S
55 mm	peach	Cotton strap long	46P5/H
55 mm	white	Cotton strap long	46P5/W
55 mm	black	Cotton strap long	46P5/S



# Insoles

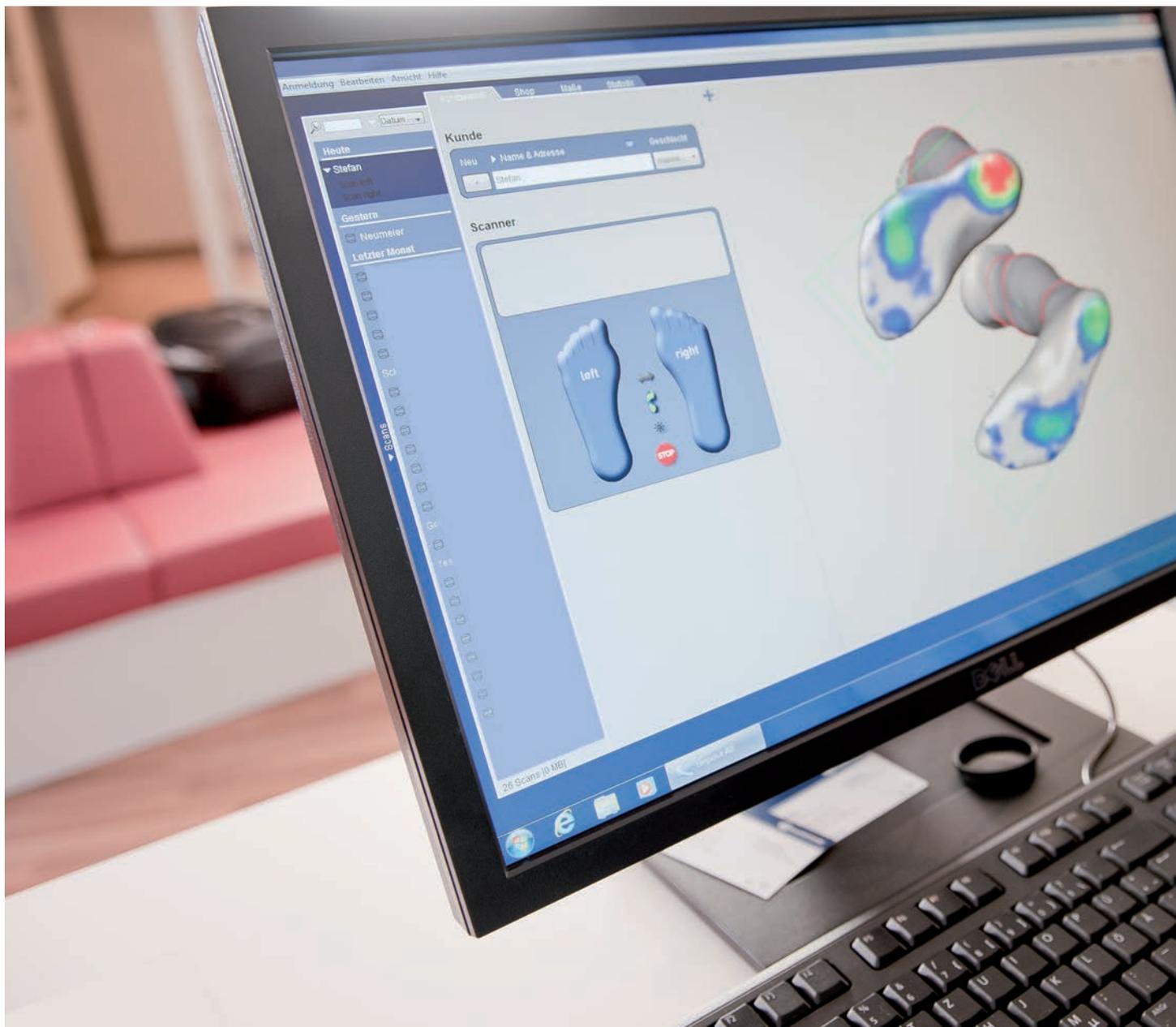


# Insoles

Due to its anatomical nature, the human foot is designed to walk on natural grounds and without the use of high heels. An often flat (artificial) floor and the unnatural inclined position of the foot due to heels will result in an impairment of the foot and therefore in podalgia.

The majority of humans are born with healthy feet. Foot damages predominantly develop in the course of time only. The causes are disposition and overweight on the one hand and hard grounds and wrong footwear on the other hand, but wear, sport injuries or rheumatic changes, circulatory disorders or neuropathies contribute as well.

The foot supports respectively controls the entire supporting ligaments and locomotor apparatus of the body. Malpositions of the foot are therefore often the cause for articular damages of the knee, the hip or the spinal column. Therefore insoles have the prime purpose of correcting, supporting or cushioning any foot deformities and they are used for a large number of indications such as splayfoot, flatfoot, pes cavus, pes valgus, hallux-valgus or calcaneal spur.



On the following pages we present you with a selection of prefabricated insoles. In addition, you will find small parts such as metatarsal and longitudinal pads. All fabrication materials used to manufacture prefabricated insoles are of the highest quality, offer the best processing characteristics and have been tested to be skin-friendly.

A large number of materials are available to manufacture insoles. Besides classic materials such as aluminum, steel and cork, we are a competent and reliable supplier for all kinds of synthetic materials which are predominantly used today. By using specific combinations of materials it is possible to individually adjust the desired functionality of a prefabricated insole. This works with thermoplastic materials for supporting and compensating insoles as well as with several soft foams for soft cushioning accommodative insoles.



# Insoles

## Types of insoles

- Directly molded insoles/support insoles:

In case of false posture and position, first a congruent copy of the foot is made in order to manufacture true-to-pattern arch supports. The insole supports the foot at its weak points – in the heel region (pes valgus), in the longitudinal arch region (flatfoot) or in the region of the forefoot (splayfoot) depending on the deformity of the foot. The aim is to maintain the form of the foot under load conditions.

- Accomodative insoles:

As already expressed by its name, this insole is cushioning and unloading the foot by re-distributing the pressure in specific areas. At the same time, the foot can be protected by using shock-absorbent materials. Thereby this type of insole distributes the weight of the body evenly and broadly. Accomodative insoles are used for instance to correct flat feet or pes equinovarus as well as in the case of diabetic, neuropathic and rheumatic feet. However, stable or appropriate footwear is recommended for care purposes.

- Functional insoles:

The compensating insole is an insole for growth control. The intention is to explicitly correct malpositions of the foot and to prevent further impairment. The insole is primarily used for children or teenagers till the end of the growth, on the condition that the malposition of a growing foot can be corrected manually and without great effort. Compensating insoles can be prescribed in the case of pes planovalgus, pes varus (after treatment with plaster) and pes adductus or pes metatarsus.

## As a rule, indications are:

- Splayfoot (pes metatarsus): Flattening of the upper transverse arch and widening of the forefoot
- Flatfoot: No longitudinal arch of the foot, which is completely lying flush
- Pes cavus: Distinct longitudinal arch, supination of the rearfoot, pronation of the forefoot
- Pes valgus: Lowering of the longitudinal arc, rearfoot in valgus position
- Calcaneal spur: Pressure and pain on weight bearing (formation of calcar) at calcaneal bone, pain on pressure in the medial area of the calcaneal walking area
- Hallux valgus: Describes the transverse position of the great toe within the basal joint towards the outside
- Pes adductus: Foot deformity with adduction position of the forefoot
- Pes varus: Pes equinus position of the entire foot
- Pes calcaneus: Low position of the heel, dorsally inclined
- Pes equinus: Contracted plantar arching of the upper ankle joint



## 3-Point EVA Foam Insole

shock-absorbing, saucer-type design with metatarsal pad, size (GR) 34-48

PU = 1 pair

Weight category	Colour	Item-No.
up to 60 kg	yellow	105P35/GR
60 - 80 kg	blue	105P36/GR

Please indicate size when ordering!



## 3-Point EVA Foam Insole

shock-absorbing, flat design with metatarsal pad, size (GR) 34-48

PU = 1 pair

Weight category	Colour	Item-No.
up to 60 kg	yellow	105P21/GR
60 - 80 kg	blue	105P22/GR
above 80 kg	red	105P23/GR

Please indicate size when ordering!



## Threeflex Insole

double layer, medial longitudinal arch support, with a base layer of white EVA and a top layer of PPT in peach, size (GR) 34-48

PU = 1 pair

Version	Item-No.
saucer type	105P61/GR

Please indicate size when ordering!

# Insoles



## Soft Foam Insole

double layer, semi-saucer type design without metatarsal pad, with a base layer of white Plastazote and a top layer of perforated Plastazote in peach, size (GR) 35-48

PU = 1 pair

Colour	Item-No.
white/peach	105P107/GR

Please indicate size when ordering!



## Soft Foam Insole

double layer, saucer type design, made of Plastazote with metatarsal pad, size (GR) 34-48

PU = 1 pair

Colour	Item-No.
white	105P103/GR

Please indicate size when ordering!



## Soft Foam Insole

double layer, semi-saucer type design without metatarsal pad, size (GR) 34-48

PU = 1 pair

Colour	Item-No.
peach	105P100/GR

Please indicate size when ordering!



## EVA Foam Insole

single layer, approx. 45° shore, semi-saucer type design without metatarsal pad, size (GR) 36-48

PU = 1 pair

Colour	Item-No.
blue	105P101/GR

Please indicate size when ordering!



## EVA Foam Insole

double layer, consists of white EVA bottom layer and perforated EVA cover, saucer type design with metatarsal pad, size (GR) 34-48

PU = 1 pair

Colour	Item-No.
white/blue	105P105/GR

Please indicate size when ordering!



## Cork Insole for Children

double layer, saucer type design (containing), 3/4 length, made of thermo-moldable cork with a multi-colour EVA cover, incl. 1 pair of supination cones made of hard felt, size (GR) 23-35

PU = 1 pair

Colour	Item-No.
supination cone	105P50/S
cork/multi-color	105P50/GR

Please indicate size when ordering!



## Metatarsal Pad, Cellular Rubber

PU = 50 pcs

Size	Item-No.
1 1122/1	191P1/1
2 1123/2	191P1/2
3 1124/3	191P1/3
4 1125/4	191P1/4



## Metatarsal Pad, Cellular Rubber

PU = 50 pcs

Size	Item-No.
0 1100/0	191P2/0
1 1101/1	191P2/1
2 1103/2	191P2/2
3 1104/3	191P2/3



## Metatarsal Pad, Cellular Rubber

anatomically shaped

Size	PU	Design	Item-No.
811	50 pcs		191P14
812	25 pairs	left and right	191P10/1
813	25 pairs	left and right	191P10/2



## Longitudinal Arch Pad

made of cellular rubber

PU = 50 pcs

Size	Item-No.
0	191P30/0
2	191P30/2
4	191P30/4
6	191P30/6



## Metatarsal Pad, Foam Rubber

PU = 50 pcs

Size	Item-No.
1 3445-1	190P1/1
2 3445-2	190P1/2
3 3445-3	190P1/3
4 3445-4	190P1/4
5 3445-5	190P1/5



## Metatarsal Pad, Foam Rubber

PU = 50 pcs

Size	Item-No.
1 2031-1	191P5/1
2 2031-2	191P5/2
3 2031-3	191P5/3

---

## Metatarsal Pad, Foam Rubber



PU = 50 pcs

Size	Item-No.
1 2057-1	191P55/1
2 2057-2	191P55/2
3 2057-3	191P55/3

---

## Metatarsal Pad, Foam Rubber



PU = 50 pcs

Size	Item-No.
1 2030-1	191P56/1

# Little ABC's of Orthopaedics

- A** **Abdomen** - area of the body between chest and pelvis  
**Abdominal** - relating to the abdomen  
**Abduction** - movement of a body part away from the midline of the body  
**Acetabulum** - concave pelvic component of the hip joint receiving the femoral head  
**Adduction** - movement of a body part towards the midline of the body  
**Alternating** - exchanging, altering  
**Amelia** - complete absence of one or several extremities  
**Anatomy** - science of structure of organisms  
**Anesthesia** - loss of feeling or sensation/narcosis  
**Anterior** - front  
**Anteversion** - forward tilt of a body part  
**Antivarus** - against varus malalignment  
**Aponeurosis** - a fibrous sheet of tissue by which certain muscles are attached to bones  
**Articulation, articulating** - a joint, concerning a joint  
**Atrophy, to atrophy** - shrinkage, wastage of biological tissue (e. g. muscle atrophy)  
**Axilla, axillary** - the armpit, relating to the armpit
- B** **Bandage, to bandage** - wrapping, dressing; sense of: elastic support, applying bandages, taping  
**Biceps** - two headed (e. g. biceps muscle)  
**Bow-leg** - varus malalignment of the longitudinal axis of the leg
- C** **Calcaneus** - heel bone  
**Capsular** - retaining to an articular capsule  
**Catalyser** - chemical agent causing a chemical reaction (e. g. hardening powder, -paste)  
**Caudal** - towards the tail, below, backside  
**Cerebrum, cerebral** - the major part of the brain, occupying the upper part of the cranium, pertaining to the cerebrum  
**Cervical (cervical-region)** - pertaining to the neck area  
**Chronic** - long term (disease; opposite of acute)  
**Condyle, condylar** - joint head, pertaining to the joint head  
**Congruence, congruent** - match, matching, identical  
**Concave** - hollow, curved inwards  
**Conservative** - conciliatory, maintaining, in the sense of non-surgical  
**Constitution** - physical shape  
**Contraction, to contract** - tightening, shortening of soft tissue with joint malposition  
**Contralateral** - reciprocal, located on the other side of the body  
**Contusion** - bruise  
**Convex** - curved to the front or outside  
**Claw foot** - flexion contraction of the toes

# Little ABC's of Orthopaedics

**Cranial** - head, above

**Cyst** - abnormal, closed sac-like structure within a tissue that contains a liquid, gaseous, or semisolid substance (e. g. Baker's-cyst in the back of the knee)

- D** **Decubitus, decubital** - pressure damage, pressure sore
- Derotation** - correctional rotation
- Detorsion** - back rotation, correctional rotation (e. g. detorsion insole)
- Dexter** - right
- Diagnosis, to diagnose** - searching and finding a cause and details of disease
- Digital** - pertaining to finger or toe
- Digitus** - finger or toe
- Dislocation, dislocate** - shift, to shift
- Distal** - away, away from body
- Distorsion** - sprained, twisted (e. g. joints)
- Dorsal** - back side
- Duroplast** - synthetic material, which is, once it has hardened, not mouldable anymore by heat

- E** **Endogenous** - caused by inner reasons
- Et** - and
- Exogenous** - caused by outer reasons
- Extension** - stretching, extension of a body part
- Extra** - beyond
- Extremities** - limbs

- F** **Fascia** - covering around muscles and tendons
- Femur** - bone that extends from the pelvis to the knee
- Fixation, fixed** - position that cannot be altered passively
- Flexion** - bending a joint (opposite of extension)
- Fracture** - break in a bone
- Frontal** - to the front (front surface)

- G** **Gibbus** - curve in the spine causing a bump or hump on the back, strong kyphotic spine deformation
- Gluteus, gluteal** - buttocks muscle, pertaining to buttocks
- Gocht manoeuvre** - special technique to mold the plaster-cast for the ischium bar
- Gonarthrosis, gonitis** - inflammation of the knee joint

# Little ABC's of Orthopaedics

**H** Haematoma - bruise

Hallux - big toe

Hammer toe - flexed contraction position of a toe in the middle or end joint during dorsal tilting of the metacarpophalangeal joint

Heidelberg angle - AFO (ankle foot orthosis to lift the forefoot)

Hemi - half

Heterogenous - mixed combination, disparate

Hinge joint (*Articulatio ginglymus*) - single-axle joint (e. g. finger joint)

Hyper lordosis - lumbar lordosis, hollow back

Homogenous - uniform, congeneric

Hyper - prefix: more than the norm

Hypo - prefix: less than the norm

**I** Idiopathic - spontaneous, independent, starting without known reason (e. g. idiopathic scoliosis)

Immobilization, to immobilize - to prevent motion of a joint or segment

Incongruity, incongruent - mismatch, mismatched

Incontinence - inability to control urination or defecation

Indication, to indicate - advice, necessity, to advise, make something necessary

Infra - under or below

Initial - beginning

Insert - orthopaedic foot support, foot cushion for customized shoes

Instability, instable - missing stability, loose

Insufficiency, insufficient - functional weakness, inadequate

Interim treatment - temporary, tentative treatment before the final treatment

Irreversible - final, permanently

Ischium, ischial - seat bone, pertaining to the seat bone

Ischium bar - support point of the seat bone in prostheses or orthoses

**K** KBM (abbreviation) - Kondylen Bettung Münster

Knee cap - molded knee bandage made of textile rubberlike fabric

Kyphosis - rather flat backward bent scoliosis

**L** Lesion - injury

Level Pelvis - aligned pelvis

Lateral - away from the center

Ligament, ligamentary - band of fibrous tissue connecting bones, concerning the ligaments

Longuette - oblong reinforcing material, usually several layers (e. g. plaster bandage)

Luxation, to luxate - sprain, to sprain

# Little ABC's of Orthopaedics

- M** **Medial** - inside, center, toward the mid-line  
**Metatarsal** - long bones between the tarsal bones and the toes  
**Modular system** - orthopaedic aid or prosthesis construction with various finished components  
(modular concept)  
**Morbus** - disease, ailment
- N** **Naviculare** - short term for os naviculare = navicular bone of foot (or hand – scaphoid bone)  
**Necrosis - necrotic** - dead tissue, mortified  
**Neuropathy, neuropathic** - nervous disorder, nervous affection
- O** **Oedema, oedematic** - swelling, swollen  
**Orthosis** - splint, brace device, corset, support  
**Orthopaedics** - science of recognition and treatment of inherent or acquired defects of the musculoskeletal system (orthos = straight, right and paedia = childhood)  
**Orthoprosthesis** - construction of a proximal orthotic element and a distal prosthetic element  
**Ossification, osseous** - bone formation, bony  
**Osteomyelitis** - infection of bone and bone marrow  
**Osteosynthesis** - connection of two or more bones by means of metal plates, screws, nails or wires
- P** **Pad** - upholstering device in an orthosis or shoe  
**Palma, palmar** - inner hand surface, pertaining to the inner hand surface  
**Palpation, to palpate** - examination by touching with the hand  
**Paralysis, paralytic** - loss of motor function, lame (only in the sense of limpness)  
**Paresis, paretic** - loss of motor function (limp or spastic)  
**Patella** - kneecap  
**Pathological** - unnatural, abnormal, morbid  
**Pelvic obliquity** - misaligned pelvis, asymmetrical pelvis height (e. g. caused by unequal leg length)  
**Periphery, peripheral** - outer region, outside (e. g. peripheral arterial disease = PAD)  
**Peroneus, peroneal** - retaining to the calf-bone (e. g. nervus peronaeus communis)  
**Peroneus-spring** - ankle-foot orthosis to lift and guide the foot in case of limpness/loss of control  
**Pes** - foot  
**Pes adductus** - forefoot inverted, adducted, medially misaligned forefoot-position  
**Pes calcaneus** - walking on the heel (steep slope position of the forefoot)  
**Pes cavus** - contracted foot (excessive longitudinal arch of the foot)  
**Pes equinus** - pointed foot (excessive plantar flexion of the whole foot)  
**Pes equinus varus adductus** - club foot (combined malposition of the foot)  
**Pes planus** - flat foot (collapsed medial arch)  
**Pes planus valgus** - knock-flat foot (collapsed medial arch with kinked lower ankle joint)

# Little ABC's of Orthopaedics

- P** **Plantar** - pertaining to the foot sole
- Poliomyelitis** - paralysis caused by the polio virus infecting the anterior horn cells of the spinal cord
- Pollex** - thumb
- Poly** - prefix: multi, several
- Post** - prefix: after, behind
- Posterior** - behind, toward the back of...
- Postoperative post op** - after surgery
- Pre** - prefix: before, prior to
- Pressure lesion** - surface damage of skin and tissue due to extensive pressure exposure
- Prevention** - precaution
- Prognosis, prognostic** - preview, expected
- Progredience, progredient** - progression (of disease), advancing
- progressive** - advancing
- Prominence, prominent** - protrusion, protruding
- Pronation** - rotation of hand or foot in long axis facing outwards or dorsally
- Prophylaxis, prophylactic** - prevention, preventive
- Prosthesis** - externally applied device used to replace wholly, or in part, an absent or deficient limb segment
- Proximal** - nearest to the trunk; towards the trunk
- Pseudo arthrosis** - non-union of a fractured bone
- PTB - (abbreviation)** - patella tendon bearing = patella tendon - load principle
- PTS - (abbreviation)** - PTB-supracondylar prosthesis = lower leg prosthesis, reaching over femurcondyles

- Q** **Quadriceps** - short for Musculus quadriceps = four headed muscle in the anterior thigh
- Quengel Hinged Brace** - joint bending or stretching brace with hinges

- R** **Radius** - spoke bone, one of the forearm bones
- Recidivism, recidiving** - relapse, recurrence (of a disease), relapsing
- Reclination, to reclinate** - backward tilt, to tilt backwards
- Redression, to redress** - to force or bend back
- Rehabilitation, to rehabilitate** - enabling persons with disabilities to reach and maintain their optimal sensory, intellectual, psychiatric and/or social functional levels
- Retroversion** - backward turn
- Reversible** - convertible
- Rotation, to rotate** - turn, turning

# Little ABC's of Orthopaedics

- S** **Sagittal** - following the arrow, straight direction
- Saddle joint (articulatio sellaris)** - double-axis joint (e. g. thumb saddle joint Carpometacarpal-I-joint)
- Shore-hardness** - measuring unit for the degree of hardness of elastic materials
- Sinister** - left
- Scoliosis, scoliotic** - lateral deviation of the spine and rotation of the vertebrae around the long axis of the spine
- Spasticity, spastic** - cramping, cramped
- Spina, spinal** - referring to the spine (vertebral column)
- Spondyle** - retaining to the spine (e. g. spondyle arthrosis = arthrosis of the vertebral joints)
- Subductus** - laying underneath (e. g. digitus subductus = toe, laying crossed underneath)
- Subluxation** - partial dislocation of a joint
- Superductus** - laying over (e. g. digitus sperductus = toe, laying over dorsally)
- Supination** - rotation of hand or foot around long axis with palm forward or foot inward
- Supination wedge** - medial or inner elevation of an orthopaedic insole
- Supra** - prefix: upper, above
- Swiss cam lock / Swiss lock system** - detention of a splint joint (e. g. of an orthotic brace)
- Symphysis** - pubic symphysis, midline cartilaginous pubic bone connection (synchondrosis)
- Symptom, symptomatic** - sign, indication of a disease, indicating a disease
- Syndesmosis** - slightly movable articulation where the contiguous bony surfaces are united by an interosseous ligament
- Syndrome** - disease pattern
- Synostosis** - bony fusion between two bones

- T** **Talus** - bone that articulates with the tibia and fibula to form the ankle joint
- Tarsus, tarsal** - heel part of the foot, pertaining to the heel part of the foot
- Thermoplast** - plastic material re-shapeable under heat application
- Three-point-correction principle** - correctional therapy by leverage effect with surface pressure-application at three contact points
- Thomas splint** - a long leg relief splint that extends from a ring at the hip to beyond the foot, e. g. for aseptic hip joint necrosis
- Tonus** - tension condition of muscles
- Torsion** - twisting
- Trochanter** - muscle insertion point, bony protrusion lateral-proximally at the femur
- Tuber** - hunch, knob (e. g. tuber ischiadicum)
- Tuberosity** - bony protrusion, muscle insertion/fixation point

- U** **Ulna** - inner and longer of the two bones of the forearm

# Little ABC's of Orthopaedics

**V** **Valgus** - X-shaped joint alignment

**Varicosis** - disease of the veins, varication

**Varices** - distended veins

**Varus** - O-shaped joint alignment

**Ventral** - relating to or situated on or close to the abdomen; abdominal, front

**Vertex** - centre of a curve, maximum of a curve

**Volar** - relating to the palm of the hand

**V2A-steel** - stainless steel

**W** **Walking** - milling, softening, staking e. g. orthopaedic leather

Source: "Children's orthopaedic techniques by R. Bernbeck, J. Pramschiefer, H. D. Stolle", published by Thieme, Stuttgart

1C1 .....	130	29T1.....	304
1E2.....	143	29T2.....	305
2P36.....	235	29T4.....	305
2T22.....	299	30F1.....	251
2T23.....	298	30F2.....	251
2T24.....	298	30P11.....	229
2T25.....	298	30P14.....	227
2T25S.....	278	30P20.....	230
2T26.....	299	30P21.....	229
4T7.....	300	30P22.....	230
4T7S.....	278	34P1.....	229
5E1.....	145	34P2.....	228
5E2.....	145	34P3.....	228
6T5.....	299	34P4.....	228
8P14.....	236	34P5.....	229
8P16.....	236	34P6.....	227
8T4.....	310	34P8.....	227
8T10.....	304	34P10.....	228
8T26.....	23	35F1.....	253
8T51.....	23	35F2.....	254
8T52.....	23	36F1.....	254
8T81.....	23	36P1.....	225
9T2.....	304	36P2.....	226
10C2 .....	129	36P3.....	226
10J1 .....	239-240	36P5.....	225
10S10.....	143	37F1.....	254
10S11.....	143	37P1.....	226
11C2.....	129	37P5.....	227
11J1 .....	239	38F1.....	255
12C2 .....	130	40C1 .....	131
12J1 .....	239	40E10.....	154
12P17.....	208	40E11.....	154
12P18.....	209	40E12.....	154
12P20.....	210	40E13.....	154
12T4.....	300	40E14.....	154
12T4S.....	278	40E15.....	154
12T5.....	300	40E16.....	154
13C2.....	129	40E17.....	154
13J1 .....	239	40F1.....	250
14C2 .....	130	40P3.....	218
14J1 .....	239	40P7.....	219
15T4.....	301	40P8.....	219
20C2.....	131	40P18.....	219
20T1.....	306	40P19.....	220
20T3.....	306	41T7.....	301
22A100.....	113	42P2.....	217
22T8.....	302	42P3.....	217
22T8S.....	278	42P4.....	218
22T23.....	301	42P5.....	218
22T23S.....	278	42P6.....	217
22T40.....	302	42P9.....	222
22T40S.....	278	43P3.....	222
22T73.....	303	43P5.....	223
22T73S.....	278	43P6.....	222
22T76.....	302	43P7.....	223
22T76S.....	278	43P8.....	223
22T77.....	303	44P1.....	220
22T77S.....	278	44P2.....	220
22T78.....	303	44P3.....	220
22T78S.....	278	44P5.....	221
24P5.....	236	44P6.....	221
24P5A.....	236	44P7.....	220
24P7.....	237	44P8.....	221
24P8.....	238	44P11.....	224
24P9.....	237	44P12.....	221
24P16.....	237	44P15.....	224
24P17.....	237	45E11.....	155
26T1.....	308	45E12.....	155
26T3.....	308	45E13.....	155
26T6.....	309	45E14.....	155
26T7.....	309	45E15.....	155
26T10.....	308	45E16.....	155
26T20.....	310	45E17.....	155

# Index

45E18.....	155	55T11.....	284
45E19.....	155	55T12.....	284
45E20.....	155	55T18.....	284
45E21.....	155	55T19.....	284
45E22.....	155	55T20.....	284
45E23.....	155	55T25.....	283
45F1.....	252	55T30.....	285
45F2.....	252	56P3.....	323
45F3.....	253	56P7.....	330
45P20.....	331	56P8.....	330
46P4.....	331	56T3.....	280
46P5.....	331	57P4.....	329
48P1.....	224	57P6.....	329
48P10.....	225	57T3.....	277
48P15.....	225	58T1.....	279
48P20.....	225	59T8.....	277
49T4.....	305	59T9.....	277
49T5.....	307	60C1.....	132
49T6.....	307	60C50.....	96
49T8.....	307	60E1.....	164
49T9/W.....	306	60E2.....	164
50E1.....	158	60E3.....	169
50E2.....	159	60E4.....	168
50E3.....	158	60E5.....	168
50E4.....	157	60E6.....	167
50E5.....	157	60E7.....	168
50E6.....	157	60E8.....	168
50E7.....	156	60E9.....	165
50E8.....	159	60E11.....	165
50E9.....	160	60E12.....	165
50E10.....	174	60E13.....	165
50E14.....	174	60E14.....	166
50E15.....	158	60E15.....	166
50E16.....	158	60E16.....	166
50E17.....	157	60E17.....	166
50E18.....	160	60E18.....	167
50E19.....	158	60E19.....	167
50E20.....	159	60E20.....	167
50E21.....	159	60E21.....	169
50E22.....	159	60E22.....	169
50E23.....	160	60F1.....	250
50E24.....	160	60F2.....	250
50E25.....	160	60P4.....	230
50E26.....	161	60P5.....	230
50E27.....	162	60P6.....	230
50M22.....	110	60P7.....	231
50P5.....	324	60P8.....	230
50P5E.....	328	60P9.....	231
50P7.....	324	60P10.....	230
50P7E.....	328	60P12.....	231
50P11.....	325	60T4.....	311
50P11E.....	328	60T8.....	312
50P22.....	323	60T9.....	314
51P1.....	328	60T10.....	312
51T1.....	279	60T13.....	315
51T30.....	331	60T15.....	276
52P15E.....	329	60T16.....	311
52P21E.....	329	60T18F.....	267
52T1.....	276	60T18K.....	268
52T4.....	278	60T19.....	313
52T6.....	278	60T23.....	315
53P3.....	329	60T29.....	312
53P5.....	326	60T30.....	272
53P7.....	326	60T31.....	314
53P12.....	327-328	60T32.....	313
53T3.....	280	60T33.....	313
53T6.....	280	60T35.....	272
53T9.....	281	60T37.....	273
53T13.....	282	60T38.....	274
55P1.....	330	60T40.....	271
55T1.....	283	60T60.....	275
55T8.....	283	60T70.....	275
55T10.....	284	60T80F.....	270

60T80K.....	269	76T8.....	316
60T86.....	271	76T16.....	316
61P7.....	231	77P10.....	250
61P9.....	231	77P11.....	249
61P10.....	231	77P15.....	250
61P12.....	231	77P16.....	249
61T1.....	287	77T5.....	317
61T3.....	288	78P10.....	246
61T13.....	288	78T4.....	317
61T14.....	287	78T5.....	317
61T15.....	290	78T6.....	317
62P1.....	232	78T7.....	318
62P2.....	232	78T8.....	318
62P5.....	232	79T1.....	297
62T1.....	287	80C1.....	133
62T7.....	286	80C12.....	134, 209
62T21.....	289	80E11.....	148
62T22.....	289	80E21.....	148
63T13.....	286	80E31.....	148
63T35.....	285	81E1.....	147
63T46.....	286	81E2.....	134, 147
64P12.....	232	81E3.....	147
64P13.....	232	81E6.....	150
65T1.....	290	81E7.....	151
65T3.....	289	81E12.....	153
66P3.....	233	81E14.....	153
66P4.....	234	81E20.....	151
66P7.....	235	81E21.....	149
66P9.....	234	81E22.....	149
66T10.....	290	81E23.....	147
66T12.....	291	81E24.....	152
66T15.....	291	81E25.....	153
67P2.....	233	81T15.....	156
67T11.....	292	82E4.....	144
67T12.....	292	82E5.....	144
68T9.....	293	82E6.....	144
69T1.....	293	83E1.....	149
69T11.....	293	83E2.....	150
70C1.....	133	83E3.....	150
70E2.....	173	83E4.....	149
70E4.....	161	84E3.....	146
71P4.....	248	84E6.....	146
71P10.....	247	84E9.....	146
71P16.....	246	89T7.....	315
71P22.....	248	90C1.....	132
71T9.....	297	90E10.....	162
73P1.....	245	90E11.....	163
73P2.....	244	90E15.....	164
73P7.....	244	90E20.....	163
73P11.....	245	90E21.....	174-175
73P12.....	245	90E29.....	162
73P14.....	245	90E30.....	170-171
73T1.....	294	90E31.....	171-172
73T5.....	294	90E32.....	172-173
73T7.....	295	90E35.....	173
73T8.....	295	90E50.....	170
73T13.....	296	90T3.....	316
73T14.....	297	91T7.....	320
73T16.....	296	91T9.....	319
73T17.....	295	91T14.....	321
74P14.....	245	95P1.....	102
74P15.....	245	95P2.....	103
75C1.....	133	95P3.....	101, 135
75E1.....	145	95P4.....	103
75E2.....	156	95P6.....	99
76P1.....	246	95P7.....	107
76P3.....	249	95P8.....	107
76P5.....	249	95P9.....	106
76P7.....	246	95P10.....	107
76P9.....	247	95P11.....	100
76P21.....	247	95P12.....	101
76P23.....	248	95P13.....	102
76T7.....	316	95P14.....	102

# Index

95P15.....	101	110P18.....	64, 309
95P16.....	100	110P20.....	66
95P17.....	103	110P26.....	25
95P18.....	107	110P50.....	54
95P19.....	104	110P60.....	55
95P23.....	105	110P62.....	42
95P25.....	104	110P63.....	41
95P26.....	104	110P64.....	42
95P27.....	104	110P65.....	57
95P28.....	107	110P70.....	46, 48
95P30.....	106	110P71.....	46, 48
95P31.....	106	110P72.....	46, 48
96T2.....	321	110P73.....	46, 48
97T2.....	322	110P74.....	46, 48
98P1.....	212	110P76.....	47
98P2.....	213	110P77.....	47
98P4.....	212	110P78.....	47
98P5.....	212	110P79.....	47
98P8.....	211	110P80.....	46-47
99P2.....	202	110P81.....	47
99P3.....	200-201	110P85.....	47-48
99P4.....	201	110P86.....	47-48
99P5.....	201	110P90.....	49-50
99P6.....	201	110P91.....	49
99P7.....	202	110P92.....	49
99P8.....	202	111P1.....	56
99P10.....	203	111P2.....	56
99P11.....	203	111P3.....	57
99P12.....	204	111P11.....	70
99P15.....	203	111P12.....	71
99P20.....	209	111P13.....	56
99P21.....	209	111P14.....	55
99P30.....	201	111P16.....	19
99P40.....	200	111P17.....	17
99P41.....	200	111P18.....	25
99P42.....	200	111P19.....	17
99P43.....	200	111P20.....	18
99P44.....	200	111P21.....	37
99P60.....	211	111P22.....	55
99T3.....	322	111P23.....	55
100C1.....	133	111P24.....	20
100P1.....	78	111P25.....	19
100P2.....	77	111P26.....	20
101P1.....	78	111P27.....	20
101P4.....	79	111P28.....	37
101P5.....	78	111P29.....	18
102P1.....	77	111P30.....	18
102P2.....	77	111P32.....	70
105P21.....	337	111P34.....	38
105P22.....	337	111P38.....	39
105P23.....	337	111P40.....	55
105P35.....	337	111P43.....	70
105P36.....	337	111P44.....	39
105P50.....	339	111P46.....	38
105P61.....	337	111P47.....	38
105P100.....	338	111P48.....	38
105P101.....	338	111P49.....	38
105P103.....	338	111P52.....	43, 45
105P105.....	339	111P53.....	43, 45
105P107.....	338	111P54.....	39
110C2.....	131	111P55.....	39
110P1.....	24	111P56.....	39
110P4.....	109	111P57.....	39
110P6.....	109	111P62.....	27
110P7.....	65	111P63.....	26
110P8.....	109	111P65.....	32
110P9.....	109	111P67.....	26
110P10.....	63	111P68.....	26
110P13.....	65	111P69.....	32
110P14.....	64	111P71.....	27
110P15.....	65	111P72.....	44-45
110P16.....	194	111P73.....	44-45
110P17.....	64	111P74.....	44-45

111P75.....	44-45	112P3.....	92
111P76.....	44-45	112P5.....	92
111P79.....	44	112P11.....	91
111P81.....	33	112P13.....	89
111P82.....	34	112P14.....	88
111P83.....	34	112P15.....	89
111P84.....	34	112P16.....	119
111P85.....	34	112P17.....	93
111P86.....	33	112P20.....	87
111P87.....	33	112P21.....	119
111P88.....	33	112P22.....	88
111P89.....	33	112P23.....	119
111P91.....	40	112P24.....	120
111P92.....	41	112P25.....	120
111P93.....	41	112P26.....	121
111P94.....	41	112P27.....	122
111P96.....	27	112P28.....	122
111P97.....	27	112P29.....	193
111P98.....	40	112P30.....	194
111P99.....	28	112P31.....	95
111P100.....	50	112P32.....	120
111P101.....	51	112P33.....	94
111P102.....	52	112P35.....	95
111P103.....	52	112P36.....	95
111P104.....	53	112P37.....	188
111P105.....	52	112P38.....	182
111P106.....	51	112P39.....	96
111P107.....	51	112P40.....	94
111P109.....	53	112P41.....	94
111P110.....	53	112P42.....	199
111P111.....	54	112P43.....	199
111P117.....	17	112P50.....	92
111P120.....	21	112P51.....	93
111P122.....	21	112P55.....	93
111P124.....	21	112P56.....	121
111P125.....	19	112P57.....	121
111P126.....	21	112P80.....	90
111P130.....	22	112P81.....	90
111P132.....	22	112P114.....	87
111P134.....	22	112P115.....	89
111P136.....	22	112P120.....	87
111P140.....	22	112P122.....	88
111P150.....	20	113P6.....	98
111P151.....	20	113P7.....	113
111P162.....	28	113P9.....	203
111P170.....	30	113P15.....	193
111P174.....	30	113P16.....	193
111P176.....	30	114P1.....	62
111P178.....	31	116P1.....	191
111P180.....	31	116P2.....	190
111P183.....	31	116P4.....	184
111P262.....	28	116P5.....	184
111P263.....	29	116P10.....	190
111P264.....	29	116P11.....	96
111P265.....	29	116P14.....	132
111P266.....	29	116P17.....	63
111P267.....	29	116P20.....	190
111P268.....	29	117P1.....	191
111P269.....	29	117P2.....	191
111P270.....	29	117P4.....	192
111P271.....	29	117P5.....	192
111P272.....	29	117P7.....	192
111P273.....	29	117P8.....	150, 192
111P274.....	29	117P20.....	97
111P275.....	29	117P22.....	96
111P276.....	29	118P1.....	184
111P810.....	33	118P4.....	191
111P860.....	33	118P8A.....	192
111P870.....	33	118P9.....	183
111P880.....	33	118P10.....	181
111P890.....	33	118P11.....	183
112P1.....	91	118P12.....	181
112P2.....	91	118P13.....	182

# Index

118P14.....	183	142P1.....	68
118P17.....	182	142P3.....	69
118P18.....	181	142P4.....	68
118P21.....	188	142P5.....	68
118P22.....	189	142P6.....	69
118P23.....	189	142P11.....	68
118P24.....	189	142P45.....	68
118P25.....	185	145T20.....	205
118P28.....	97, 185	145T21.....	206
118P29.....	151, 186	145T22.....	207
118P30.....	186	145T23.....	208
118P31.....	186	146P1.....	70
118P32.....	186	148P4.....	69
118P35.....	187	148P5.....	70
118P36.....	187	160P100.....	161
118P37.....	187	164P6.....	98
118P38.....	185	164P9.....	98
118P41.....	152	166P24.....	157
118P44.....	152	171P14.....	233
118P45.....	151	190P1.....	340
119P2.....	202	191P1.....	339
119P3.....	108	191P2.....	339
119P5.....	109	191P5.....	340
119P6.....	112	191P10.....	340
119P7.....	135	191P14.....	340
119P8.....	135	191P30.....	340
119P9.....	108, 134	191P55.....	341
119P10.....	109	191P56.....	341
119P11.....	110	197P10.....	275
119P12.....	111	250P1.....	114
119P13.....	111	250P11.....	114
119P14.....	112	250P14.....	107
119P15.....	112	250P18.....	114
119P16.....	112, 132	300M1.....	243
119P17.....	113	300P10.....	244
119P18.....	110	300P11.....	244
119P19.....	110	300P20.....	244
119P20.....	111	300P21.....	244
119P21.....	111	300P30.....	244
119P22.....	110	301M1.....	243
119P23.....	110	310M1.....	243
119P24.....	97	W62P1.....	232
119P25.....	113	W66P3.....	234
119P26.....	144	W60P4.....	231
119P30.....	98	W66P4.....	235
119P31.....	99	W60P5.....	231
135P1.....	57	W62P5.....	232
135P3.....	62	W60P6.....	231
135P4.....	61	W60P8.....	231
135P5.....	61	W60P10.....	231
135P7.....	61	W60P12.....	231
135P9.....	61	W64P12.....	232
135P21.....	61	W64P13.....	232
138P2.....	235		
138P5.....	235		
140P2.....	66		
140P3.....	66		
140P4.....	66		
140P5.....	66		
140P6.....	66		
140P10.....	66		
140P40.....	105		
140P41.....	105		
140P103.....	66		
140P108.....	66		
140P302.....	67		
141P3.....	67		
141P4.....	67		
141P6.....	67		
141P50.....	68		
141P51.....	68		
141P103.....	67		
141P105.....	67		

"	
„Alcantara“ Support Fabric.....	308
„Jungle“ Cloth for Resin Lamination Technique, Tubular Fabric.....	23
3	
3-Point EVA Foam Insole.....	337
A	
Abdoform Releasing Agent.....	146
Abdosil H with Catalyst.....	144
Abdosil L with Catalyst .....	144
Accelerator .....	93
Acrylic-Lacquer .....	150
Acrylic Lacquer Spray .....	192
Acrylic-Putty.....	96
Adhesive Crutch Tip „Ruhrstern®“ .....	249
Adhesive Tape .....	112
Alcohol Torch.....	161
Alginate .....	143
Alginate Spatula.....	157
AlphaPlast® Rigid Foam H200 .....	119
AlphaPlast® Rigid Foam H300 .....	119
AlphaPlast® Rigid Foam H700 .....	120
Altuglas.....	32
Aluminum Cane.....	245
Aluminum Mould .....	174
Aluminum Rivet.....	226
Anti-Decubitus Elbow Protector.....	251
Anti-Decubitus Fleece .....	308
Anti-Decubitus Heel Protector .....	251
Antiskid Crutch & Cane Tip.....	249
Aquilim Adhesive 250 .....	188
Aquilim Spray Adhesive Set.....	188
Araldite Adhesive.....	132
Araldit Fast Setting Hardener .....	91
Araldit (HY 956).....	91
Aramid Pre-preg.....	130
Arm Bearing Tray „System Wolf“ .....	253
Arm Tray / Hemiplegia Tray .....	254
Atlas® Thinner for Acrylic Resins .....	89
B	
Baby Bar Lock .....	236
Bar Lock .....	236-237
Base Ring for Eyelet .....	231
Beale Spatula.....	158
Body Protection Stockinette.....	204
Bonding Agent Araldit AV 121N.....	92
Brass Sheet/Durana Sheet.....	77
Brillant Wax Block.....	193
Broad Elastic Webbing Strap.....	288
Bucket-Seat Module System .....	243
Buckle.....	323
C	
Cane .....	244-245
Carbide Cutting Bit .....	164-165
Carbon Fibreglass Stockinette .....	106
Carbon Fibre Matting .....	107
Carbon Fibre Orthoses Kit .....	114
Carbon Fibre Pre-preg.....	129
Carbon Fibre Pre-preg CU 420.....	129
Carbon Fibre Stockinette .....	106
Carbon Fibre Thread .....	107
Carbon Fibre Webbing.....	107
Carbon Polishing Wheel .....	166
Carbon-UD-Stockinette.....	107
Cellacast Xtra.....	200
Cellona® Plaster Bandage .....	201-202
Cellona® POP Bandage Off-Cuts.....	202
Cellona® Skin Protection Cream.....	203
Cellular Caoutchouc.....	61
Cellular Rubber.....	61
Celluloid Shavings .....	192
Clamp Buckle with Loop.....	221
Clamp Buckle with Teeth .....	221
Clamping Adapter for Threaded Rods .....	174
Cleardur .....	152
Clip Buckle with Loop .....	220
Clip Buckle without Loop .....	220
Clip Closure, Plastic .....	224-225
Coated Steel Strip with Hook.....	330
Coil Strip „Wigona“ .....	328
Colle de Cologne Adhesive.....	183
Colordur.....	20
Colorfoam.....	46-47
Colorfoam perforated.....	48
Colouring Paper .....	24-25
Copolymer .....	20
Copper Rivet.....	226
Cork Insole for Children.....	339
Coroplast Adhesive Tape .....	111
Cotton Stockinette.....	100-101, 135
Cotton Strap .....	331
Cotton Trim Strap.....	279
Cotton Webbing Strap.....	276
Cotton Yarn „Kette“ 40/3 .....	321
Crutch & Cane Rubber Tip .....	246
Crutch & Cane Tips .....	249
Crutch & Cane Tips (Icepick) .....	250
Crutch Handle Cushion Cover.....	248
Cutting Bit, Drum.....	164
Cutting Bit for Silicone.....	165
Cutting Bit for Silicone, Cone.....	165
D	
Dacron Felt .....	105
Degaplast® Duplicating Paste.....	120
Degaplast® Flexible Foam W150 .....	121
Degaplast® Flexible Foam W300 .....	122
Degaplast® Hardener for Flexible Foam.....	122
Degaplast® Lamination Resin 80:20 ...	87
Degaplast® Lamination Resin 103E ....	88
Degaplast® Lamination Resin C.....	88
Degaplast® Sealing Resin .....	89
Desira Plastic Strap, endless.....	329
deSohl-Soluble.....	190
Diamond-Satin Cloth.....	300
Die for Hook.....	231
Die for Lacing Hook .....	232
Die for Snap Fastener.....	232
Die for Tubular Rivets with Closed Stem .....	235
Die for Tubular Rivets with Open Stem.....	234
Digester.....	173
Dilution for Pattex Adhesive .....	184
Diresil Glue - adhering agent .....	150
Disinfectant Cleaner for Imitation Leather .....	63
Disposable Latex Gloves.....	208
Disposable Latex Gloves IC .....	209
Disposable Vinyl Gloves .....	134, 209
Dorsal Stopper for Elastic Joint .....	239
Double Sided PVC Adhesive Tape .....	111
Double-Sided Spatula, Small .....	159
Double-Sided Spatula, Wide.....	159
Doubling Gel .....	146
Drell Lining Cloth .....	299
Drell Weave .....	298
Duolastic Cover Fabric.....	156
Dur-Aluminum.....	77
Dyneema Pre-preg .....	130

# Directory

## E

Elastic Adhesive Strap .....	291
Elasticated Strap .....	297
Elasticated Strap with Nops.....	62
Elastic Garter Strap.....	290-291
Elastic Halter Strap.....	293
Elastic Hook and Loop Strap.....	272
Elastic Joint Dummy .....	239
Elastic Joints for Orthoses.....	239
Elastic Lace.....	297
Elastic-Single-Jersey Cloth.....	304
Elastic Steel Coil, Flat (Bra Insert) .....	330
Elastic Stockinette .....	101-102, 104
Elastic Thigh Strap with Button Holes	293
Elastic Trim Strap .....	294-297
Elastic Webbing .....	289
Elastic Webbing Strap .....	287-288, 290
Elastic Webbing Strap for Prostheses..	289
Elastic Wool Fabric .....	289
Elastinova-Tuellex Webbing .....	286
Elastinova Webbing .....	286
Elbow Rest Cushion Cover .....	247
Episil/Episil-Catalyst, 20° Shore A Hardness.....	148
Episil/Episil-Catalyst, 35° Shore A hardness .....	148
Episil/Episil-Catalyst, 65° Shore A hardness .....	148
EpoxiPure hardener .....	90
EpoxiPure laminating resin.....	90
EVA Foam Insole.....	338-339
Evazote .....	40-41
Eyelet .....	230-231
Eyelet Strap.....	315

## F

Facialglue.....	153
Facialsil, 35° Shore A hardness .....	147
Facolor .....	155
Fastening Button.....	99
Felt Cloth .....	68-69
Fibreglass Pre-preg.....	129
Fibreglass Stockinette .....	102-103
Fibreglass Webbing.....	104
Fibreglass Webbing-Combo.....	104
Filler Sleeve.....	109
Flat Steel -Stainless Steel- .....	79
Fleece Lining Material.....	64
Fleece Polishing Wheel .....	166
Flexokork® .....	69
Foamed Layer Adhesive Tape .....	113
Foam with Fabric Cover on Both Sides	307
Foot Impression Foam, Extra Large.....	213
Foot Impression Foam, Normal Size....	212
Foot Imprinting Kit .....	212
Foot Imprinting Paper.....	212
Foot Tray .....	254
Forearm Crutch.....	247-248
Forearm Crutch for Children .....	246
Forte Rapid Adhesive .....	182
Freeze Spray .....	132

## G

Garter.....	292
Glass Fibre Filler Material .....	94
Glass Fibre Putty .....	95
Grease Pencil .....	209

## H

Hand Grinder.....	163-164
Hardener.....	120
Hardener (Colourless Cross Linker) ....	189
Hardener Paste .....	93

Hardener Powder .....	94
Hardener Powder for Polyester	
Laminates.....	93
Hard Foam .....	70
Heel Lining „Viledon“ .....	65
Heptan .....	149
Hernia Truss Cover Strap.....	280
Hexagonal Nut .....	228
High Performance Maintenance Spray .....	96
High Performance Sealing Grease (Stick Wax).....	130
Honeycomb Fleece .....	131
Hooco Colour Wax Block .....	193
Hook ad Loop Strap „Back-to-Back“ ...	274
Hook and Loop Strap Micro.....	271
Hook and Loop Coins.....	271
Hook and Loop Fasteners .....	275
Hook and Loop Strap .....	272, 311-315
Hook Strap.....	268
Hook Strap „Hako Fix“ .....	269
Hylon Le Cron Spatula .....	159

## I

Imitation Leather (Skai) .....	63
Indelible Pencil .....	209
Indisil Glue - adhering agent.....	151
Insert Nut.....	228-229

## J

Jacquard Cloth.....	301-303
---------------------	---------

## K

Knurled Nut.....	227
Koeper Weave .....	299
Kon-Gel.....	147

## L

Lace and Cord Stop, Plastic.....	225
Lace for Prostheses.....	317
Lace Tip Pliers .....	233
Lacing Hook.....	232
Lacing Strap .....	316-317
Lai Porellina®, embossed .....	65
Lamellar Shellac.....	191
Lamination Resin Araldit D.....	91
Lamination Resin Felt.....	105
Lateral Belt Retainer Plate with Screw	236
Latex Cushioning Foam.....	57
Latex Insulating Bag.....	202
Le Cron Spatula .....	158
Lignum Glue .....	191
Linen Adhesive Tape .....	112
Linen Thread for Sewing Machines.....	322
Lining Cloth .....	64, 299, 309
Lining Cloth for Bucket-Seats .....	308
Lining Cloth for Orthoses .....	307
Listra Acrylic Lacquer .....	192
Listra Fix Adhesive.....	181
Listra Top Adhesive .....	182
Loctite® 241 .....	187
Loctite® 245 .....	187
Loctite 406, Rapid Glue.....	152
Loctite® 601 .....	187
Loctite 770, Primer .....	151
Loctite 7063, Quick Cleaner.....	152
Loctite Silicone Glue Set .....	151
Longitudinal Arch Pad .....	340
Loop Strap .....	267
Loop Strap „Hako Fix“ .....	270
Lycra-Tuell Webbing.....	285

## M

Masking Tape .....	112
Measuring Cup .....	98, 162

Memory Foam, Density 60.....	56-57	Pigment Paste.....	95
Metal Lace Tip .....	233	Plantar Flexion Bumper .....	235
Metatarsal Pad, Cellular Rubber .....	339-340	Plastazote® .....	37-38
Metatarsal Pad, Foam Rubber .....	340-341	Plastazote® perforated .....	39
Microballoon .....	94	Plaster Apron.....	210
Microfibre Fleece.....	65	Plaster Cutter, Ball.....	167
Mipolam.....	56	Plaster Cutter, Cone .....	168
Mixing Board.....	145	Plaster Cutter, Pointed.....	168
Mixing Bowl for Plaster Mixer.....	163	Plaster Insulating Cream.....	203
Mixing Gun.....	133, 144	Plaster Mixer.....	163
Modelling Cast „Alabaster“ .....	199	Plastic Bolt .....	229
Modelling Instrument.....	159-160	Plastic Cap.....	329
Modelling Instrument Double, Apex Tip.....	160	Plasticine Clay.....	113
Modelling Instrument Double-Sided, Fine Tip .....	160	Plastic Loop.....	222
Modelling Instrument Double-Sided, Rounded Tip .....	160	Plastic Loop, oval.....	222
Modelling Spatula made of Plastic Material.....	157	Plastic (PE) Washer .....	230
Moltopren.....	56	Plastic (POM) Insert Nut.....	230
Monodur.....	153	Plastic Sheetting .....	64
Moulding Plaster, porous.....	145	Plastic Tying Tape .....	112, 132
Moulding Plaster, synthetic .....	145	Podotrack®.....	211
Multicork .....	70	Polishing Brush.....	168
Multiform .....	43-44	Polishing Paste.....	169
Multiform perforated .....	45	Polishing Wheel.....	166
Multi Purpose Glue (Plaster Insulating Varnish).....	185	Polyester/Cotton Thread.....	320
Multipurpose Grease.....	96	Polyester Resin, Firm .....	92
Multi Purpose Lubricant Spray .....	97	Polyester Resin, Soft.....	93
Multipurpose Safety Belt.....	254	Polyester Stockinette .....	100
Muslin Cloth .....	310	Polyethylene Adhesive Tape.....	111
<b>N</b>		Polyglass Stockinette.....	103
Needle Bar .....	114	PPT.....	54
Neopolen .....	55	PPT perforated .....	54
Neopolene Seat Pillow.....	243	Pressed Cotton Fibre „Molton“ .....	304-305
Nobaform® Plaster Bandage .....	200-201	Primer for PUR.....	189
Nobaform® Wide Longuette .....	201	Processing Roller .....	158
Nora®-Lunacell .....	53	Pryx.....	55
Nora®-Lunacell perforated .....	54	PTFE Film.....	110
Nora®-Lunairflex .....	51	PTFE-Foil, porous, for Infrared-Oven ..	110
Nora®-Lunairflex perforated .....	51	PTFE Spray.....	97
Nora®-Lunairmed .....	50	PTFE Tape.....	110
Nora®-Lunairmed perforated .....	51	PU-Rigid Foam with Hardener H350 ...	119
Nora®-Lunalastik .....	52	PVA Film.....	109
Nora®-Lunalastik perforated .....	52	PVA Lamination Bag .....	108
Nora®-Lunasoft AL .....	53	PVA Lamination Bag „Special“ .....	108, 134
Nora®-Lunasoft SL.....	52	PVC Film .....	109
Nora®-Lunasoft SLW.....	53	PVC Shrink Tubing.....	194
Nylon Stockinette, extremely expandable .....	103	<b>Q</b>	
Nylon Stockinette, very expandable ...	102	Quickstep-Shoe Chains.....	250
Nylon-Velours Polyester Fabric.....	307	<b>R</b>	
<b>O</b>		RCH 500.....	22
Ortec Glue.....	181	RCH 1000.....	21
Orthopaedic Flat Steel/Wrought Iron .	78	Reclining Shackle .....	238
Orthoprene® - Neoprene.....	62	Reflector .....	250
<b>P</b>		Rehagol-Halogenate (PU Primer).....	189
Pacolor .....	154	Reinforcing Fabric .....	70
Padding Band .....	275	Replacement Cap .....	237
Padding Felt.....	66-68	Replacement PVC Profile Splints .....	114
Pastosil.....	134, 147	Retrosil .....	147
Pattex Power Adhesive .....	183	Rigid Foam H300 .....	121
PE-Adhesive Tape „3M“ .....	111	Rigid Foam H700 .....	121
Perlon Lace .....	318	Rilsan® Sintering Powder .....	193
Perlon-Lace Ribbon .....	301	Rip Fracture Support Belt .....	279
Perlon Stockinette.....	99	R + L Solvent, Based on Acetone.....	190
Perlon Strap for Orthoses.....	318	Round Head Nut for Protector Screw .	227
PET.....	25-26	Rubber Cord .....	235
PE Thermo Fabric.....	23	Rubber Solution .....	184
		Rubber Tip .....	247
		Ruhrstern®-Elastic.....	202
		<b>S</b>	
		Safety Belt.....	283
		Safety Belt, Model „Murnau“ .....	255
		Sanding Bit for Silicone.....	168

# Directory

Sanding Cylinder .....	167	Steel Sheet (Black Coated).....	78
Sanding Sleeves.....	167	Steel Spiral Strip, endless.....	328
Sand Paper.....	169	Steel Strap.....	78
Sand Paper Holder .....	169	Steel Strap for Bra .....	331
Satin Cloth .....	300	Steel Strip „Cellon“, endless.....	328
Scalpel .....	161	ST-Microfibre .....	66
Scalpel Blade.....	162	Streifeneder Lamination Resin .....	87
Scalpel handle „Standard, fig. 4“ .....	161	Streifeneder Lamination Resin C.....	88
Scissors .....	156-157	Streifeneder Lamination Resin, flexible .....	87
Screw Adapter .....	175	Streifeneder Light Putty .....	95
Screws and Nuts for Elastic Joint.....	240	Streifeneder Sealing Resin.....	89
Sealer/Liquid Wax.....	146	Streifycolor® .....	18
Sealing Grease (Stickwax) .....	113	Streifycryl .....	32
Sealing Resin Compact Glue .....	182	Streifydur® .....	19, 26
Sealing Tape .....	132	Streifydur® Plus .....	19
Self-Adhesive Hook and Loop Strap ...	273	Streifyflex.....	27
Shaker .....	162	Streifyflex Black.....	27
Shrink Foil.....	109	Streifyflex Color.....	29
Silicone Bag .....	135	Streifyflex - „Deep Drawing Sheeting“, Clear .....	28
Silicone Base Coat/Primer .....	150	Streifyflex, Plus LDPE.....	27
Silicone Hose.....	133, 153	Streifyflex Super Plus .....	28
Silicone Mixing Bowl.....	156	Streifyfoam .....	49
Silicone Oil 1000 Cs .....	150	Streifyfoam perforated.....	50
Silicone Parting Agent Spray.....	96	Streifylast® .....	18
Silicone Remover .....	149	Streifylen®.....	17
Silicone Roller (115V / 60 Hz), Electric.	171	Streifylen® PE-HWST .....	17
Silicone Roller. Electric .....	170	Streifysil liquid, 5° Shore A hardness ..	149
Silicone Roller, Mechanical .....	173	Streifysoft 20 .....	42
Silicone Roller with liquid cooler (115 V / 60 Hz), Electric .....	172	Streifysoft-Volara .....	41
Silicone Roller with liquid cooler, Electric.....	171	Streifytec Excel .....	31
Silicone Roller without liquid cooler (115 V / 60 Hz), Electric .....	173	Streifytec Extra Soft .....	30
Silicone Roller without liquid cooler, Electric.....	172	Streifytec Extra Soft, beige.....	31
Silicone Sheet .....	135, 143	Streifytec Extra Soft, with Silicone.....	31
Silicone Sheet with Cloth Lining .....	143	Streifytec Soft.....	30
Silicone Spatula .....	157	Streifytec Stiff.....	30
Silicone Work Station.....	170	Stretch-Charmeuse Weave.....	301
Single Prong Buckle with Roller.....	218-219	Strong Round Steel Coil (Bra Insert) ...	330
Sintering Powder „Orthosint“ .....	194	Structured Rubber Sheet .....	61
Skin Protection Stockinette .....	203	Stucco.....	199
Skin Protection Stockinette Set.....	203	Stud Rivet.....	236
Snap Fastener, 4-parts.....	232	Suction Fleece.....	131
Soft Foam Insole.....	338	Super Glue .....	151, 186
Solvent „C“ .....	184	Super Glue, elastic.....	186
Spacer Fabric.....	306	Support Strap .....	280-282
Spare Feet .....	175	Suspender Buckle „Velvet“ .....	331
Special Anti-Decubitus Toilet Seat .....	250	Suspender Clip.....	221
Special Lubricant .....	188	Syntic-Total Adhesive .....	183
Spindle Holder .....	166	Synton Polyester Thread.....	319
Spiral Coil with Metal Caps.....	324-325	T	
Spiral Coil with Plastic Caps .....	323	Talcum Powder .....	98
Spray-On Adhesive.....	97, 185	Tearing Foil .....	131
Spray-On Adhesive „Special“ .....	185	Terry Cloth .....	304
Stabilisator for RTV silicones .....	149	Terry Foam .....	55
Stabilizing Shackle, flat.....	237	Testing Screw/Counter Sink Head .....	227
Stainless Steel Sheet.....	77	Thermo-Flex Reinforcing Fabric .....	71
Stainless Steel Strip „Cellon“ .....	326-327	Thinner „Drawin 28 A“ .....	
ST Diabetic-Material.....	57	(All-Purpose Thinner).....	191
Steel Cap for Stainless Steel		Thinner for Rapid Glue .....	190
Strip „Cellon“ .....	329	THK-Reinforcing Material.....	70
Steel Cap for Steel Spiral Strip.....	329	Threeflex Insole.....	337
Steel Hook with 2 Holes.....	221	Three Prong Buckle with Prong Cover	220
Steel Loop .....	218, 223	T-Nut .....	228
Steel Loop, halfround .....	218	Transfer Apparatus for Forefoot Protheses.....	174
Steel Loop, oval.....	217	Triplex Fabric .....	306
Steel Loop, rectangular.....	217	Tubular Rivet with Closed Stem .....	234-235
Steel Loop with Roller, oval.....	217	Tubular Rivet with Open Stem .....	233-234
Steel Nail.....	226	Tuell Webbing .....	286
Steel Pin .....	227	Turbocast .....	33
Steel Rivet.....	225	Turbocast „Ortho“ .....	34
Steel Screw „Hessing“ .....	229	Tweezers .....	159

Two Prong Buckle.....	219
Two Prong Buckle with Prong Cover ..	219
Tying Cord.....	322
<b>U</b>	
UHU®-Hard .....	186
UHU®-Plus Adhesive 300.....	186
Undershirt for Spinal Orthoses, tanktop .....	206
Undershirt for Spinal Orthoses, T-Shirt.....	205
Undershirt for Spinal Orthoses, without sleeves.....	208
Undershirt for Spinal Orthoses with sleeves .....	207
<b>V</b>	
Vacuum Adapter .....	133, 175
Vacuum Molding Cushion.....	244
Vacuum Pump.....	244
Vaseline.....	144
Velcro, Loop Strap.....	276
Velour Lining Cloth .....	310
Velours .....	306
Velours Double Sided, Compatible to Velcro .....	309
Velvet Strap .....	277
Vermiculite Castfiller.....	211
Versamid .....	92
Vulkofest-96 Adhesive .....	181
Vulkollan Elastic Strap .....	98, 113
<b>W</b>	
Waxed Linen Thread for Sewing Machines.....	321
Wax Knife .....	160
Weave for Abdominal Support .....	300
Weave Knop Lining Cloth with Antislip Effect .....	309
Webbing Belt.....	277
Webbing Pre-Cut, Angular Shape .....	316
Webbing Strap .....	284, 315
Webbing Strap for „Drell-“ and „Jaquard-“ Cloth .....	278
Webbing Strap for Protheses .....	283
Webbing Strap, Polyester .....	285
Wheelchair Glove Model „Murnau“ ...	252-253
Wire Wheel.....	167
Wooden Spatula.....	98
Wood Filler .....	191
Woven Carbon-Kevlar® Stockinette ..	106
Woven Fibreglass Stockinette .....	105
Wrist Loop .....	246

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