



T.C.Components Ltd

Innovate.Develop.Supply

MEDICAL FOOTWEAR  
AND DEVICES  
**Catalogue**

**MATERIALS, COMPONENTS &  
MANUFACTURING**



**Innovators for  
orthopaedic, orthotic  
and shoe manufacturing.**



**40 Years of Experience,  
Dedication and Partnerships.**

# Brands



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CARBON COMPOSITES  
Sheets & Components

## Duralite Carbon

Duralite Carbon is a unique thermoplastic composite sheet material consisting from woven carbon fibre layers with a thermoplastic matrix. The continuous weaving provides a high resistance against flexing and torsional movement at the lowest material volume and unitary weight.

- Superior Stability
- Lightweight
- Super Strong
- Durable and Solid
- Fully Deformable
- Excellent Foot Support

### Technical Data

Thicknesses: 0.25, 0.5, 0.75, 1mm

Sheet Size: 100x86cm



## Duralite Mix

Duralite Mix is a unique thermoplastic composite sheet material consisting of woven carbon fibre and glass fibre layers with a thermoplastic matrix. The continuous weaving provides a high resistance against flexing and torsional movement at the lowest material volume and unitary weight.

- Superior Stability
- Lightweight
- Super Strong
- Durable and Solid
- Fully Deformable
- Excellent Foot Support

### Technical Data

• Thicknesses: 0.75, 1, 1.5, 2, 2.5, 3mm

• Sheet size (0.75, 1, 2.5, 3mm): 100x86cm

• Sheet size (1.5, 2mm): 100x62cm



## Duralite Glass

Duralite glass fibre is a unique thermoplastic composite sheet material consisting from woven glass fibre layers with a thermoplastic matrix. The continuous weaving provides a moderate resistance against flexing and torsional movement at a low material volume and unitary weight.

- Superior Stability
- Lightweight
- Super Strong
- Durable and Solid
- Fully Deformable
- Excellent Foot Support

### Technical Data

- Thicknesses: 0.25, 0.5, 0.75, 1, 1.5, 2mm
- Sheet Size: 100x86cm



## Duralite Mix Sole Plates

Duralite Mix is a unique thermoplastic composite sheet material consisting of woven carbon fibre and glass fibre layers with a thermoplastic matrix. The continuous weaving provides a high resistance against flexing and torsional movement at the lowest material volume and unitary weight.

- Superior Stability
- Lightweight
- Super Strong
- Durable and Solid
- Fully Deformable
- Excellent Foot Support

### Technical Data

- Thicknesses: 1.5, 2.0, 2.5, 3.0mm
- Sizes: Small(35-37), Medium(38-40), Large(41-43), Extra Large(44-46)



Supplied in pairs



# Processing

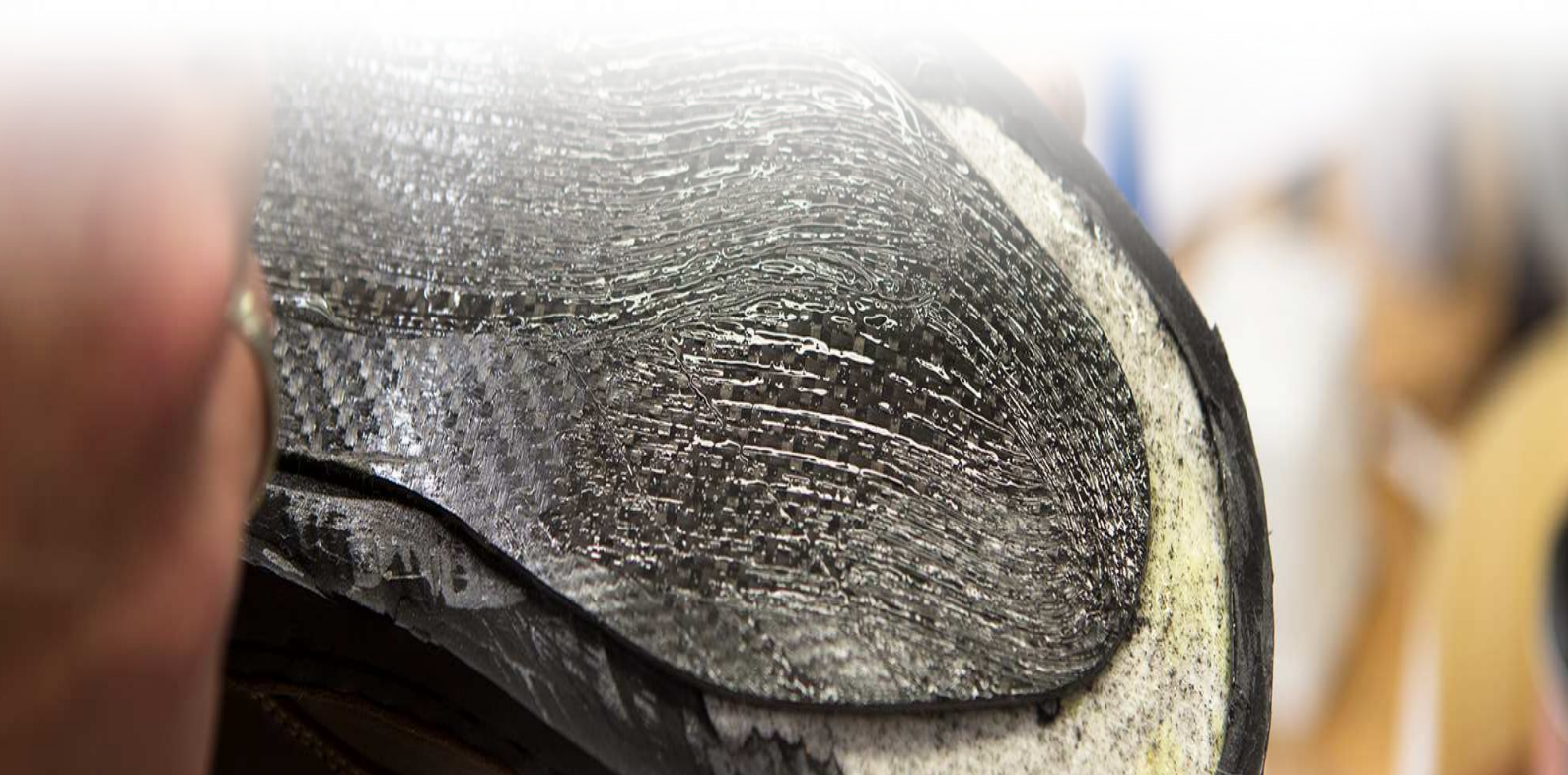
Light, Strong, Durable.

Duralite is already slightly deformable at a temperature of 100°C. By heating the sheet material to a temperature of 210 to 230°C, it becomes fully deformable. It is important that Duralite is processed within 15 to a maximum of 30 seconds when activated. As a result, the fabric layers fuse together, making the structure more solid and increasing its original stiffness.

**-With a press** Place the activated plate (210-230°C) in the preheated press (175°C) within seconds. Press the sheet material for a time of 20 seconds at a pressure of approximately 6 bar. During this time, the temperature is reduced to approximately 60°C, which cools the material and keeps the applied shape. This way of forming is ideal for serial productions.

**-With a Vacuotherm machine** Perhaps the most commonly used way. Applicable to all thickness variants and compositions of Duralite. To prevent sticking, the plate to be formed must be enclosed between two layers of silicone foil. Sufficient pressure is essential to obtain a stable and homogeneous end result.

**-With an industrial hair dryer** Post-processing is easily possible by locally reactivating the material using an industrial hair dryer.



MEDICAL FOAMS  
**Sheet & Block Foams**



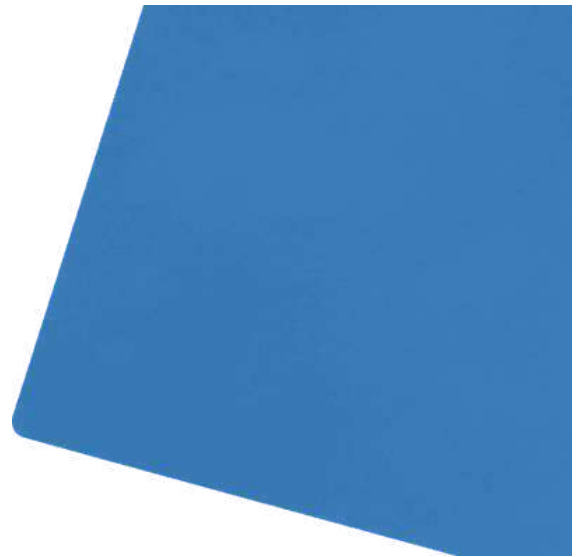
## Shockfoam

Shockfoam is a soft and comfortable material for sole and upper padding. Very well applicable for diabetics and sport soles.

- High shock absorption
- Heat resistant
- Soft touch
- High tear strength

### Technical Data

- Thicknesses: 1,2, 1,5, 2, 3, 4mm up to 30mm
- Sheet Size: 100x65cm



## Diaflex

DiaFlex is a very soft and comfortable EVA sheet material for the production of orthopaedic/diabetes supplements, sport insoles, insole covers and orthotic parts. The material has very good thermoplastic properties, a high material density and fast material recovery.

- Soft and comfortable
- Fast recovery
- High material density

### Technical Data

- Thicknesses: 1,5, 2, 3, 5, 6, 8, 10, 15mm
- Sheet size: 100x61cm



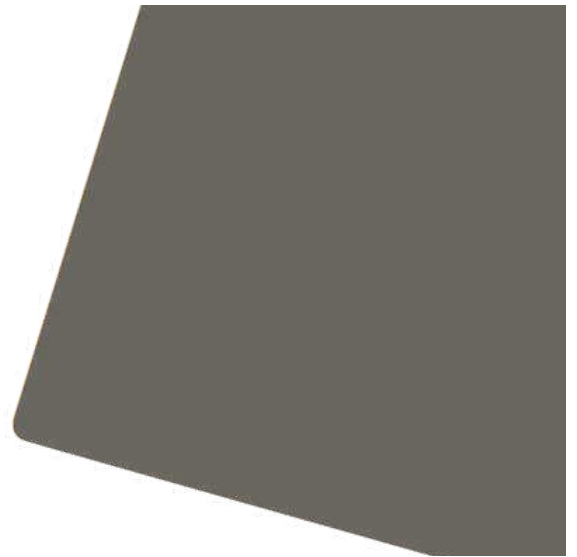
## XDE Baseflex 30

XDE BaseFlex 30 is manufactured to provide high quality solutions in the production of orthopaedic footwear and orthotic devices. Its fine cell structure and high material stability makes it a perfect choice for all common EVA applications.

- Fine cell structure
- Fast recuperation
- High material stability

### Technical Data

- Thicknesses: 1.2, 1.5, 2, 3, 4mm up to 30mm
- Sheet Size: 103x60cm
- Colours: Beige, White, Grey, Nicotina, Brown, Black, Hueso, Marine



Wide Colour Range

## XDE Baseflex 35

XDE Baseflex 35 is manufactured to provide high quality solutions in the production of orthopaedic footwear and orthotic devices. Its fine cell structure and high material stability makes it the perfect choice for all common EVA applications.

- Fine cell structure
- Fast recuperation
- High material stability

### Technical Data

- Thicknesses: 1.2, 1.5, 2, 3, 4mm up to 30mm
- Sheet size: 101x59cm
- Colours: White, Green, Red, Orange, Yellow, Blue, Pink



Wide Colour Range

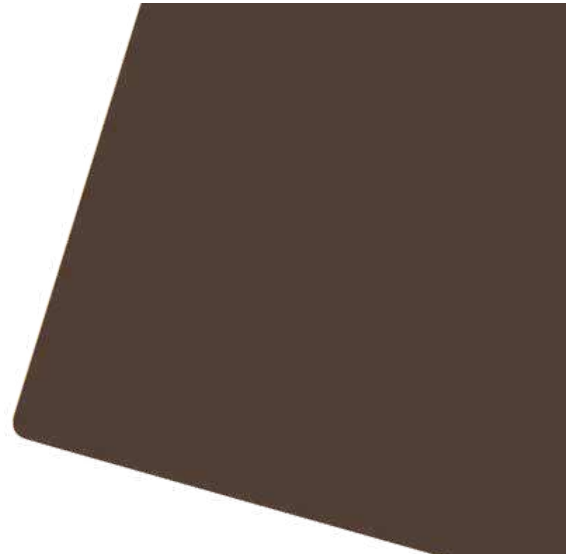
## XDE Baseflex 40

XDE Baseflex 40 is manufactured to provide high quality solutions in the production of orthopaedic and orthotic devices. Its fine cell structure and high material stability makes it a perfect choice for all common EVA applications.

- Fine cell structure
- Fast recuperation
- High material stability

### Technical Data

- Thicknesses: 1.5, 2, 3, 4mm up to 30mm
- Sheet Size: 95x56cm
- Colours: Beige, White, Grey, Nicotina, Brown, Black, Hueso, Marine



Wide Colour Range

## XDE Baseflex 50

XDE Baseflex 50 is manufactured to provide high quality solutions in the production of orthopaedic and orthotic devices.

- Fine cell structure
- Fast recuperation
- High material density

### Technical Data

- Thicknesses: 1.5, 2, 3, 4mm up to 30mm
- Sheet size: 100x56.5cm
- Colours: Beige, White, Grey, Nicotina, Brown, Black, Hueso



Wide Colour Range

## XDE Baseflex 60

XDE Baseflex 60 is manufactured to provide high quality solutions in the production of orthopaedic and orthotic devices.

- Fine cell structure
- Fast recuperation
- High material stability

### **Technical Data**

- Thicknesses: 1, 1.5, 2, 3, 4mm up to 30mm
- Sheet Size: 94x53cm
- Colours: Black and White



## XDE Baseflex 70

XDE Baseflex 70 is manufactured to provide a high quality solutions in the production of orthopaedic and orthotic devices.

- Fine cell structure
- Fast recuperation
- High material stability

### **Technical Data**

- Thicknesses: 1, 1.2, 1.5, 2, 3, 6mm
- Sheet size: 84x47cm
- Colour: Black



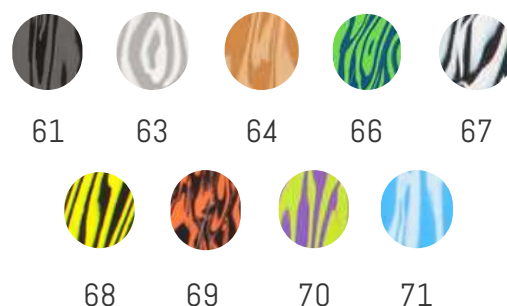
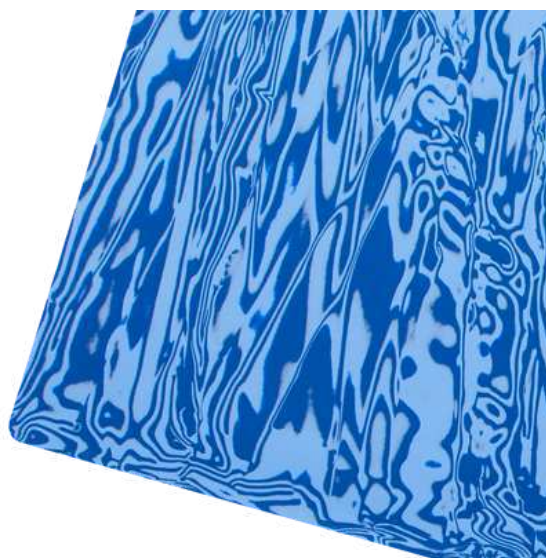
## XDE Fusion

XDE Fusion is a strong and high quality EVA cover material, used in the production of orthotics and orthopaedic footwear. XDE Fusion has a high abrasion resistance due to its special composition and homogeneous cell structure. The material has a light stretch so that it can be applied easily and without any wrinkles.

- 10 vivid colour combinations
- Marble appearance
- High abrasion resistance
- Orthotic cover material

### Technical Data

- Thicknesses: 1.2, 1.5, 2, 3, 4mm up to 22mm
- Sheet Size: 100x62cm



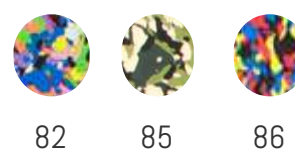
## XDE Trend

XDE Trend is a strong and high-quality EVA material for the use in manufacturing orthotics and footwear. XDE Trend has a high abrasion resistance due to its special composition and homogeneous cell structure. The material has a light stretch so that it can be applied easily and without any wrinkles.

- Available in 4 vivid colour combinations
- High abrasion resistance
- Orthotic cover material

### Technical Data

- Thicknesses: 1.2, 1.5, 2, 3, 4mm up to 22mm
- Sheet size: 100x62cm



## XDE Gel

XDE Gel is a lightweight and extremely soft padding material. It can be used for all-round padding in various applications and it's especially suitable for diabetic patients.

- Extremely soft
- Pressure-distributing properties
- Lightweight

### Technical Data

- Thicknesses: 2, 3, 4, 5, 6, 9, 12mm
- Sheet Size: 100x65cm



## PU CAD-CAM Blocks

PU (polyurethane) is a comfortable and durable material, making it ideal for patients who require high levels of comfort, shock absorption and cushioning. PU is proven to reduce and transfer unwanted pressure from prominent bony structures.

- High durability
- High abrasion resistance
- Excellent shock absorption

### Technical Data

- Size: 400x300x40mm
- Available in: Low and Medium density
- 1 box=18 blocks





# ORTHOSIS FABRICS



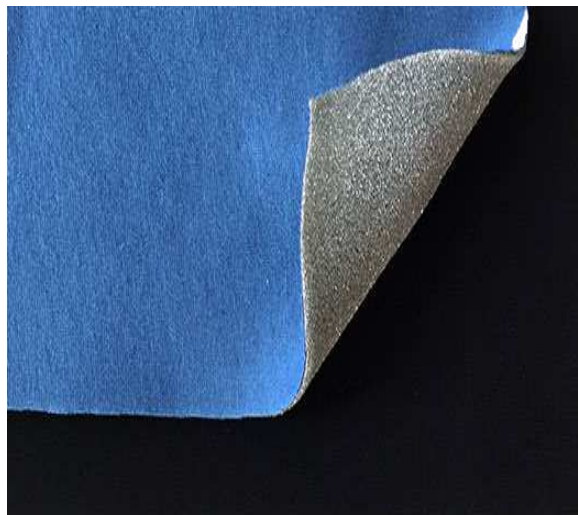
## Velcro Velvets

We offer a wide range of velcro velvets that are characterized by the variety of weight which range from 70 gr/sq to 200 gr/sq metre. The velcro receptive velvets allow for easy fastening on brace devices and orthopaedic footwear.



## Elastic Textiles

With its ability to form itself around a shape, elastic textiles are suitable for orthopaedic and orthosis shoe upper footwear, ensuring the correct compression.



## Foam

We offer a wide range of foams for the production of orthopaedic devices. Foam is a breathable material used as a support in the lamination process. To add extra cushioning to devices and guarantee maximum versatility in the process of the material, we can offer foam that is variable in density and thickness from 0 to 9mm.



# LININGS & COVERINGS



## DuraFit, The 100% Breathable Microfibre.

DuraFit is a 100% breathable microfibre that looks and feels like leather. DuraFit allows you to produce 100% breathable, comfortable shoes with an excellent fit and optimum foot climate. It is an innovative, durable microfibre which is 50% lighter than leather, hypoallergenic, and fully moisture regulating.

The unique microfibre is suitable for a wide range of applications, from specialist orthopaedic solutions to perfectly fitting insoles and high tech linings.



Absorbent



Light



Fast-drying



High tensile-strength



Anti-odor



Durable

## Durafit Smooth

The Durafit Smooth variation looks and feels just like natural leather. It has a smooth, pleasant surface texture, making it an excellent choice for covering orthotic insoles and footwear linings.

- Available in over 50 colours

### Applications

- Orthotic top covers
- Footwear linings

### Technical Data

- Thickness: 0.8mm

### Available Formats

- Mini roll (11.5cm x 25m)
- Sheet (140 x 100cm)



Wide Colour Range

## Durafit Semi-Perforated

Durafit Semi-Perforated has a smooth base and is patterned with small semi-perforations, which prevents glue seeping through the material.

- Available in over 50 colours

### Applications

- Orthotic top covers
- Footwear linings

### Technical Data

- Thickness: 0.8mm

### Available Formats

- Mini roll (11.5cm x 25m)
- Sheet (140 x 100cm)



Wide Colour Range

## Durafit Ceramic

Durafit Ceramic is a unique ceramic coating that provides unmatched material properties under the most extreme conditions. The strong ceramic print makes it the preferred choice for the most demanding wear resistance, colour fastness and anti-slip applications. Special channels in the coating design will guide the moisture deep into the material assuring a dry a comfortable foot climate.

- Available in Black, Grey and Ivory

### Applications

- Orthotic top covers
- Footwear linings

### Technical Data

- Thickness: 0.8mm

### Available Formats

- Mini roll (11.5cm x 25m)
- Sheet (140 x 100cm)



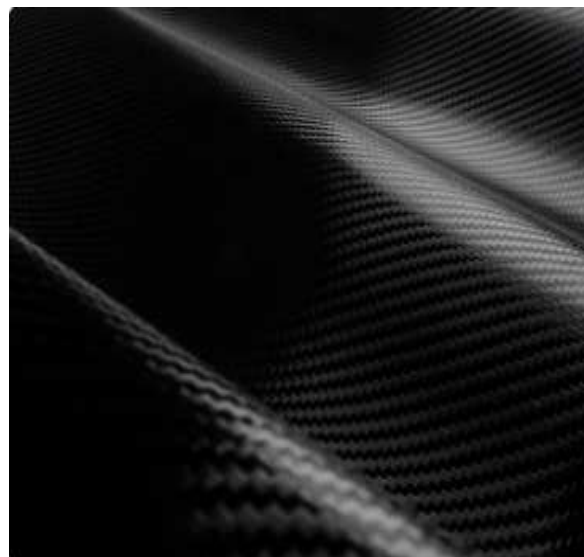
## Grafite

Grafite is a PU Coagulate material which has a similar appearance to carbon fibre. Grafite is a popular covering material for orthotic insoles due to its high-tech appearance and easy trimming.

- Carbon fibre appearance
- Excellent for deep heel cups
- Durable

### Available Formats

- Sheets and Rolls
- Colours: Black, Silver, Electric Blue



## Urano

Very light and soft hand textile microfibre, used as a lining for sports, orthopaedic and casual footwear.

- Suede effect
- High abrasion resistance
- Oeko-Tex certified

### Technical Data

- Composition: 100% polyester
- Weight: 140 gr/m<sup>2</sup>
- Roll width: 140cm

**Colours:** Black, Beige, Grey, Dark Brown



## Zefiro

Very light and soft hand textile microfibre, used as a lining for sport, orthopaedic and casual footwear.

- Anti-slip
- High abrasion resistance
- Oeko-Tex certified

### Technical Data

- Composition: 100% polyester
- Weight: 170 gr/m<sup>2</sup>
- Roll width: 150cm

**Colours:** Black, Beige, Dark Brown



## Suede Microfibre

Coagulated microfibre suitable for use as a lining in orthopaedic footwear.

- Guarantees soft hand
- Anti-slip
- Extremely resistant and light fabric

### Technical Data

- Composition: 40% PU, 60% Nylon
- Weight: 137 gr/m<sup>2</sup>
- Thickness: 0.7mm
- Roll width: 142cm

**Colours:** Black, Beige, Grey, Dark Brown







LINING FABRICS  
**Functional**

## Antilope Thermo/Antibacterial

Soft plush fabric combined to foam with thermo-adhesive and anti-bacterial treatment. Antilope is a popular lining for orthopaedic footwear as it offers a lasting treatment against bacteria and provides excellent comfort for the patients feet.

- Soft touch
- Comfortable
- Anti-bacterial

### Technical Data

- Composition: 100% PES
- Weight: 140 gr/mq
- Width: 150cm
- Roll length: 50m
- Thickness: 4mm



Black



Beige

## Absorber

Absorber is a preferred lining for the production of casual/trainer style orthopaedic footwear.

- Maximum conveyance of perspiration to the outside
- Lasting treatment against bacteria, allergies and molds
- Very high resistance to abrasion
- Lack of aromatic amines and azoic substances
- Quick drying properties
- Environmentally-friendly

### Technical Data

- Composition: 100% PES
- Weight: 185 gr/mq
- Width: 150cm



Black



Grey



Ocre



Anthracite

## Spigato

Soft velvet fabric ensuring maximum comfort for the patients feet.

- Maximum comfort inside the shoe
- Versatility of use
- Oeko-Tex certified

### Technical Data

- Composition: 83%, 17% PES
- Weight: 200 gr/mq
- Width: 150cm

**Lamination with foam is recommended.**



## Super Royal

Polyamide fibre lining, suitable for casual/trainer style orthopaedic footwear.

- Abrasion resistance
- High tensile strength
- Sport-like appearance
- Oeko-Tex certified

### Technical Data

- Composition: 100% PES
- Weights from: 120-150 gr/mq
- Width: 150/160cm



## Saturno

Soft velvet fabric ensuring maximum comfort for the patients feet.

- Resistant
- Versatility of use

### Technical Data

- Composition: 100% PES
- Weight: 185 gr/mq
- Width: 160cm
- Colours: Black, Red, Pearl, White, Orange, Marine

**Lamination with foam is recommended.**



## Gemini

Soft velvet fabric ensuring maximum comfort for patients feet.

- Thin but resistant fabric
- Maximum comfort inside shoe

### Technical Data

- Composition: 100% PES
- Weight: 130 gr/mq
- Colours: Black and Dark Brown

Lamination with foam is recommended.



LINING FABRICS  
**Three-Dimensional**



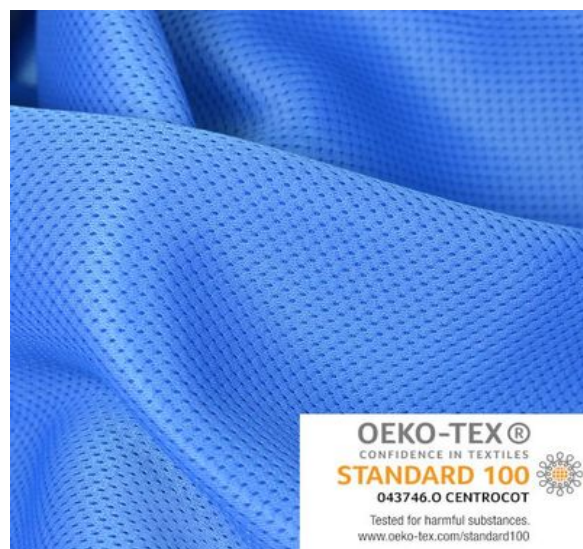
## Solar Special 250

Three-dimensional fabric resistant to tearing and abrasion. Suitable for orthopaedic and sports footwear thanks to its excellent breathability.

- Best air circulation
- High moisture management
- Excellent abrasion resistance
- Quick drying
- Great breathability
- Maximum comfort

### Technical Data

- Composition: 100% PES
- Weight: 250 gr/mq



Wide Colour Range

## Airnet Spacer 230

High comfort three-dimensional fabric, suitable for sports and orthopaedic footwear.

- Best air circulation
- High moisture management
- Excellent abrasion resistance
- Quick drying
- Great breathability
- Maximum comfort

### Technical Data

- Composition: 100% PES
- Weight: 145 gr/mq
- Width: 150cm



Wide Colour Range

## Airnet Spacer Plus 310

Three-dimensional fabric resistant to tearing and abrasion. Suitable for orthopaedic and sports footwear thanks to its breathability.

- Best air circulation
- High moisture management
- Excellent abrasion resistance
- Quick drying
- Great breathability
- Maximum comfort



### Technical Data

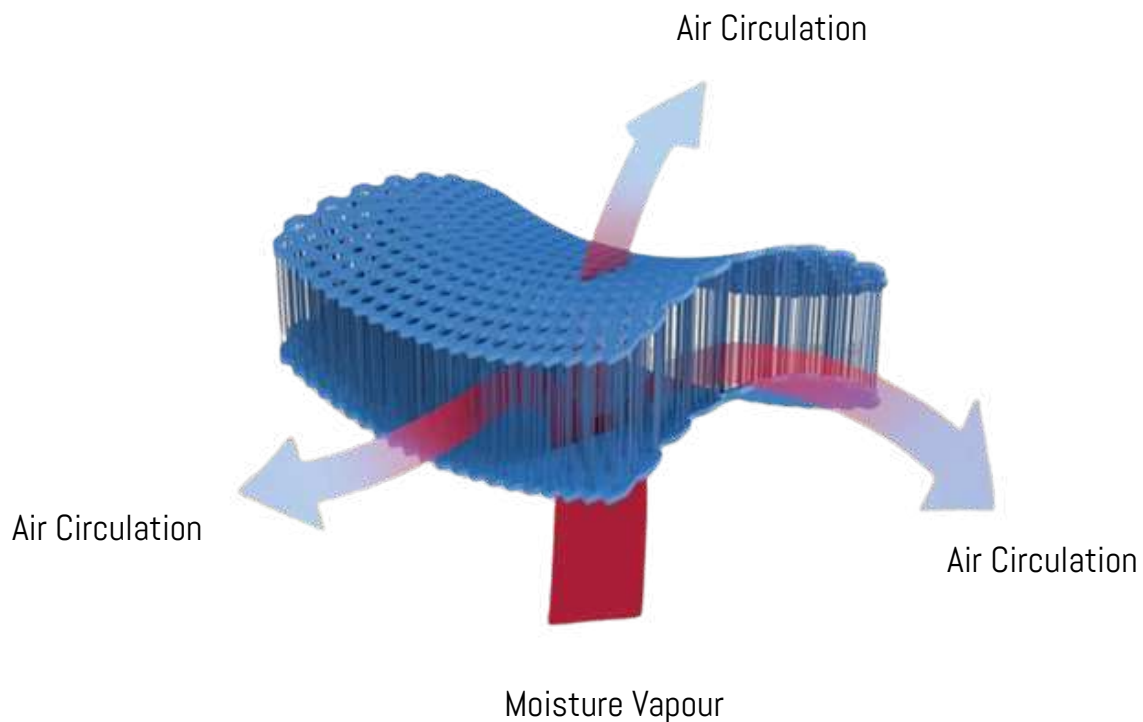
- Composition: 100% PES
- Weight: 250 gr/mq



Wide Colour Range

## Airnet Technology

The Airnet 3D fabrics are developed in a warp-knit fabric, with an unmistakable air tunnel structure, which guarantees breathability and comfort, making it an excellent choice for orthopaedic creations.



UPPER FABRICS  
Three-Dimensional





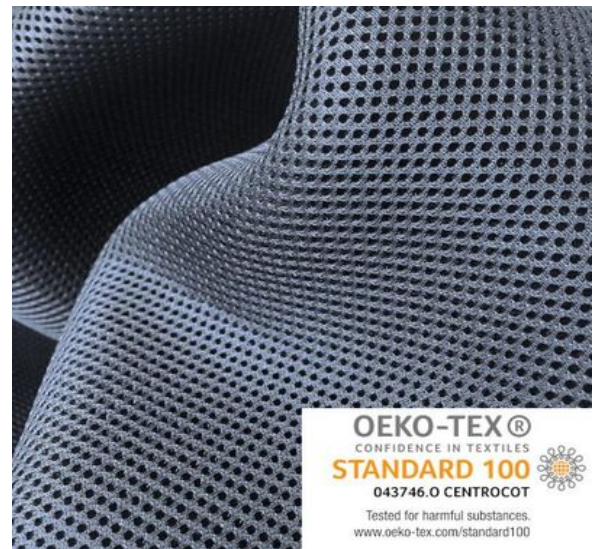
## Airnet

High resistance three-dimensional fabric suitable to create inserts and upper designs for orthopaedic footwear.

- Best air circulation
- High moisture management
- Excellent abrasion resistance
- Quick drying
- Great breathability
- Maximum comfort

### Technical Data

- Composition: 100% PES
- Weight: 300 gr/mq



Wide Colour Range

## Airnet Costa

Three-dimensional fabric with high tear resistance thanks to the more dense honeycomb-like cells. Suitable for the construction of inserts and upper designs for orthopaedic footwear.

- Best air circulation
- High moisture management
- Excellent abrasion resistance
- Quick drying
- Great breathability
- Maximum comfort

### Technical Data

- Composition: 100% PES
- Weight: 500 gr/mq



Wide Colour Range

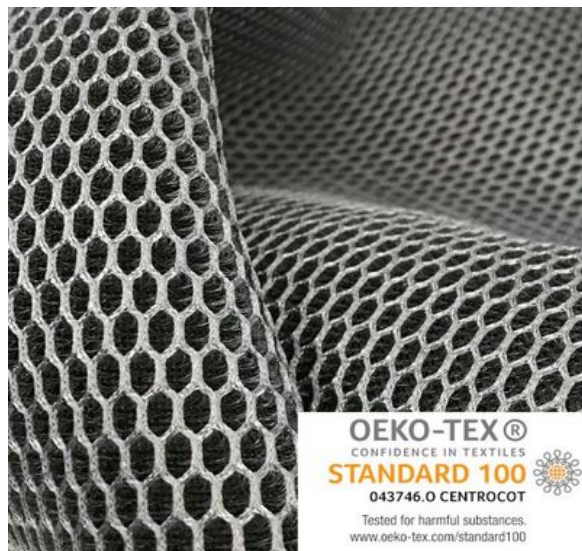
## Airnet Ape Shine

Three-dimensional fabric with high resistance thanks to the particular geometric conformation of the external side that enables the creation of uppers and sections of upper in orthopaedic footwear.

- Best air circulation
- High moisture management
- Excellent abrasion resistance
- Quick drying
- Great breathability
- Maximum comfort

### Technical Data

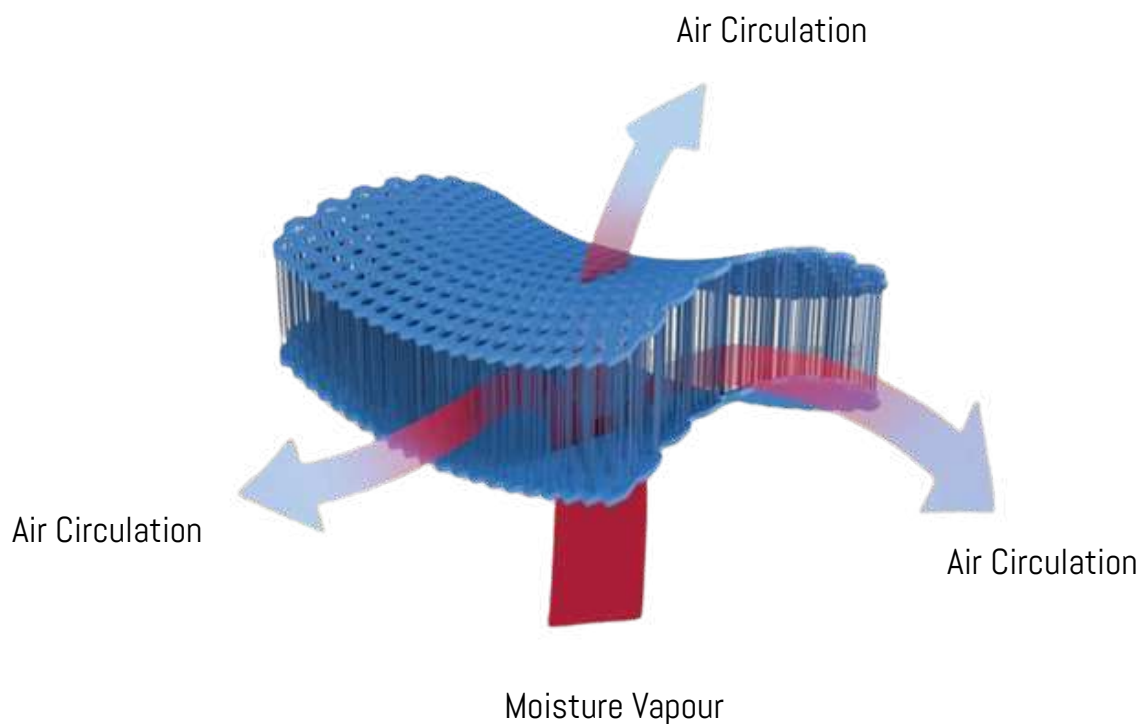
- Composition: 100% PES
- Weight: 300 gr/mq



Wide Colour Range

## Airnet Technology

The Airnet 3D fabrics are developed in a warp-knit fabric, with an unmistakable air tunnel structure, which guarantees breathability and comfort, making it an excellent choice for orthopaedic creations.





UPPER FABRICS  
Stretch

## New Ibis D

Breathable polyamide stretch material which is two-sided and combined to a high density foam. New Ibis D is suitable for use as a full vamp on orthopaedic footwear and also for the production of orthopaedic devices such as wrist braces.

- Breathable
- High stretch
- Quick drying
- Maximum comfort
- Possibility to add treatments such as antibacterial and water-repellent

### Colours

- Black/Burgundy, Navy/Black, Grey/Black, Brown/Black, Taupe/Black



## Colibri

Breathable polyamide stretch material which is one-sided and combined to a high density foam. Colibri is suitable for the production of uppers for orthopaedic footwear.

- Breathable
- High stretch
- Quick drying
- Maximum comfort
- Possibility to add treatments such as antibacterial and water-repellent



UPPER FABRICS  
Reflective

**LUXOR®**

## Luxor Pencil

Reflective material of the Luxor range characterized by glass microspheres immersed in a particular resin and applied on a fabric base. Excellent for upper designs on kids orthopaedic shoes.

- Very high refractiveness index
- Soft and malleable fabric
- Increased visibility in darkness for safety
- Compliant with ISO EN 20471

### Technical Data

- Composition: 20% glass beads, 80% coagulated PU



Black



Grey



Orange



Green



Yellow

## Luxor Reflective Piping

Reflective piping for upper decorations on kids orthopaedic footwear.

- High refractiveness index
- Increased visibility in darkness for safety
- Great for designs on trainers and casual footwear





UPPER FABRICS  
Decorative Films

## Decorative Films

Range of thermo-adhesive films used as decorations on uppers of kids orthopaedic footwear.

- Thermo-adhesive
- Easy to apply
- Available in plain colours, special patterns, stretch and 3D

### Technical Data

- Composition: TPU+PU
- Average thickness: 0.12mm



## Application

1



Cut by plotter the required shape

2



Apply shape decoration to upper

3



Apply upper under heat-press

4



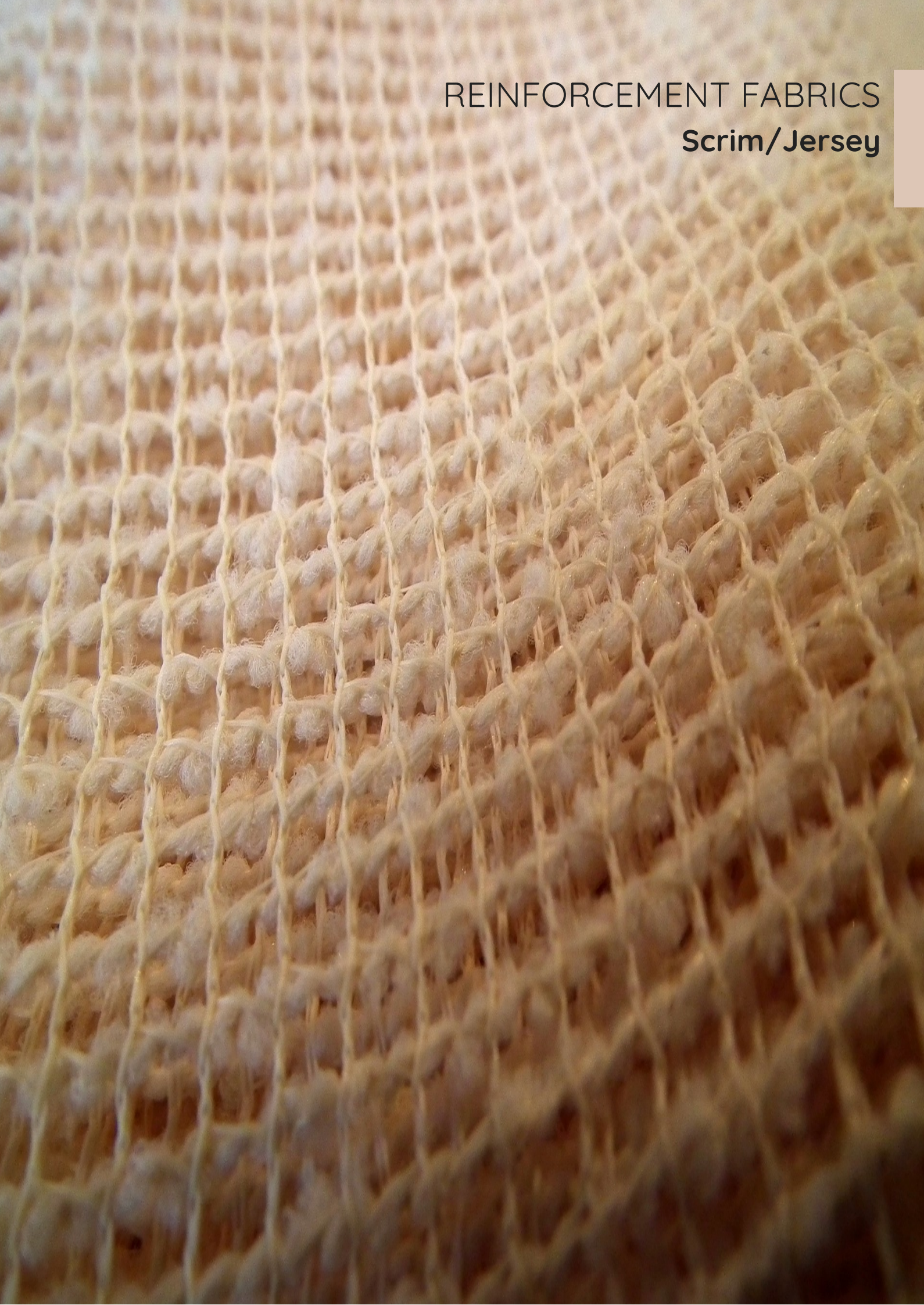
Ready to be used for production

**Decorative Films**  
Get Creative.



# REINFORCEMENT FABRICS

Scrim/Jersey



## Reinfortex Backing Fabrics

Classic range of backing fabrics used in the footwear industry. Each product have special characteristics which improve the materials they are laminated to.

-Sustainable materials

### Product Line

- Tela 20/24:** 100% calendered cotton, suitable for plane backing fabrics. 150gr
- Reps 1:** 100% cotton raised fabric, suitable for soft backings and boot legs. 110gr
- Reps 2:** Mixed cotton raised fabric, suitable for thicker backings and boot legs. 155gr
- Africa:** 200gr classic uncovered or covered backing suitable for all uses. Mixed cotton.
- Drill Cot:** 100% cotton used as heavy backing or lining. It can be dyed or printed. 270gr



## Reinfortex Jersey Fabrics

100% cotton fabric used specifically for upper moulding. The characteristic jersey extensibility and the properties of the thermoadhesive guarantee an easy and resistant moulding of the upper, enabling the optimization of the characteristics of the leather.

### Product Line

- Pordoi:** Double-body soft material, guarantees resistant moulding without an extensive stiffness
- Gran Sasso:** Double-knit, suitable for a resistant moulding, it can be an alternative to doubled bodied materials
- Nevegal:** Suitable for a resistant moulding
- Mysti:** Suitable for a resistant moulding
- Stelvio:** It is a thin and light material that reinforces the moulding without stiffning it
- Cervino:** Very soft material, suitable for light mouldings on leathers that cannot be marked



REINFORCEMENT FABRICS  
High Tenacity



## Extra Foil 235/D

Adhesive sheet in high tenacity tear-proof material suitable to support any kind of leather or fabric.

- Possibility to cut to any shape
- Easy to apply thanks to the bi-silicone paper support
- Guarantees roundness, stability and dimensional resistance

### Technical Data

- Composition: PES HT
- Boxes of 50 sheets

**Colours:** Black and White



## Glass Wool

Glass fibre backings used to strengthen eyelets and areas of the upper which have to endure high stress and wear resistance.

- Extremely high tear strength
- Dimensional stability

### Light version:

- Weight: 110 g/m<sup>2</sup>
- Thickness: 0.43mm

### Heavy version:

- Weight: 190 g/m<sup>2</sup>
- Thickness: 0.57mm

### Technical Data

- Composition: polypropylene fibres
- Rolls of 50 metres



# REINFORCEMENT FABRICS

## Non-Woven



## Super Royal

Polyamide fibre special fabric for linings but can also be used as a reinforcement.

- Abrasion and tensile strength resistant
- Excellent breathability

### Technical Data

- Composition: Polyamide
- Weights: 120, 135, 150 g/m<sup>2</sup>
- Roll width: 150/160cm



## New Grill

Non-woven backings ideal for reinforcing leather and fabrics.

- High traction resistance
- Great permeability
- Available plain, laminated, adhesive or thermo-adhesive

### Technical Data

- Composition: 100% polypropylene non-woven
- Weights from: 40 to 150 g/m<sup>2</sup>
- Roll widths: 100, 120, 150, 160cm

**Colours:** White, Black, Beige and Brown



REINFORCEMENT FABRICS  
**Anti-Slip**



AGOTEX

## Suede Base

Antislip and reinforcing coagulated microfibre suitable to maintain a very soft hand.

- Guarantees a soft hand
- Extremely resistant and light fabric

### Technical Data

- Composition: 45% PU-55% Nylon
- Thicknesses: 0.3, 0.5, 0.7, 0.9, 1.2mm
- Roll width: 142cm

**Colours:** White and Anthracite



## Agotex

Reinforcement and non-slip fabric for footwear. It maintains a soft hand and a good tear resistance.

- High abrasion resistance
- High comfort
- Application versatility

### Technical Data

- Composition: Polyester
- Thicknesses: 0.7, 0.9mm
- Roll width: 150cm

**Colours:** Anthracite, Beige, Gobi, Dark Brown





SUPPORT MATERIALS  
Leatherboard



**Lefapel**

## Lefapel Tecno

Ecological material in leatherboard ideal for supporting areas of footwear.

- Material with characterizing density and pastosity
- One-sided calandered with satin finishing
- Excellent tensile and tear resistance
- Soft and flexible hand
- Also supplied in adhesive and thermo-adhesive

### Technical Data

- Thicknesses from: 0.3, 0.4, 0.6, 0.8, 1mm

**Colours:** Leather and Anthracite



**Lefapel**

## Lefapel Extra

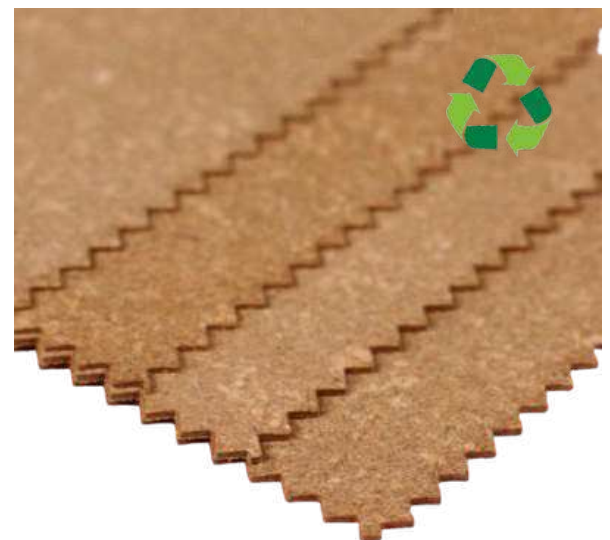
Ecological material in leatherboard ideal for supporting areas of footwear.

- High density and pastiness
- Calendered with satin finishing on both sides
- Excellent tensile and tear resistance
- Very soft and flexible hand
- Also supplied in adhesive and thermoadhesive

### Technical Data

- Thicknesses: 0.3-1mm

**Colours:** Leather and Anthracite



**Lefapel**

HOUSE SHOE FABRICS  
**Winter Classics**



## Cheviot

Felt fabric for the production of house shoes. Felt can be combined with microfibre or fur, which offers a high level of comfort and warmth for the foot.

- Naturally insulating
- Enhanced comfort
- Breathable



Wide Colour Range

## Picos Nevados

Felt fabric for the production of house shoes. Felt can be combined with microfibre or fur, which offers a high level of comfort and warmth for the foot.

- Naturally insulating
- Enhanced comfort
- Breathable



Wide Colour Range

INSOLE MATERIALS  
Cellulose Board



Cellsan

**flexan 10<sup>®</sup>**

## Flexan 10

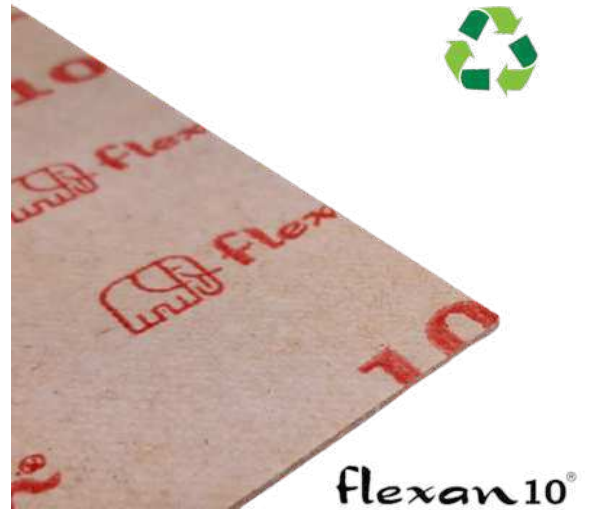
Low-cost material for the production of insoles.

- High-quality cellulose for insoles

### Technical Data

- Thicknesses from: 0.8-2.00mm
- Sheet size: 100x150cm

**Colour:** Natural



## Flexan 10 ECO

Low density cellulose for economical footwear. A great choice for eco-friendly orthopaedic footwear production.

- Produced with a big quantity of recycled cellulose fibres
- Suitable for lamination

### Technical Data

- Thicknesses: 0.5-2.75mm
- Sheet size: 100x150cm



## Cellsan Brown

Material produced with virgin cellulose.

- Soft and easily workible material

### Technical Data

- Thicknesses from: 0.8-3.00mm
- Sheet size: 100x150cm



## Cellsan Green HD

Material produced with high-quality cellulose.

- Designed for high heel insole models
- Characterized by high density

### Technical Data

- Thicknesses: 2.5mm
- Sheet size: 150x162cm



INSOLE MATERIALS  
**Fibreboard**





## Tecno Board

Fibreboard made of post-consumer recycled cellulose and production waste.

- High density
- Remains cohesive with the insole
- Chemical free

### Technical Data

- Thicknesses from: 0.8-3.00mm

**Colours:** Brown and Red



**TECNO BOARD**

## Tecnosint

Superior quality fibreboard.

- High density
- Remains cohesive with the insole layers
- Perfect nail hold of heel
- Free of dyes and chemicals

### Technical Data

- Thicknesses: 0.8, 1, 1.5, 2.5, 3mm

**Colours:** Red and Beige



## Kryptonite

Fibreboard made of virgin cellulose.

- High performance
- Obtained with a responsible use of chemicals

### Technical Data

- Thicknesses from: 0.8, 1.5, 2, 2.5mm

**Colour:** Red



## Mecsint

Fibreboard for models development, produced with virgin cellulose.

- Stiff, hard and stable
- Free of chemical dyes

### Technical Data

- Thicknesses: 1-1.5mm

**Colours:** Red and Beige



# INSOLE MATERIALS

## Non-Woven & Leather Board



## Lefaflex



Lefaflex is a series of materials in regenerated leather, mainly used for the production of toe-puffs, counters and insoles.

- Formulation of Lefaflex is specially designed to obtain excellent pre-forming with high shape retention

### Product Line

- **Lefaflex CFN ra**- Insoles, from 1 to 2mm
- **Lefaflex SP**- Middlesole, from 2 to 4mm
- **Lefaflex ST**- Heel, 4 and 5mm

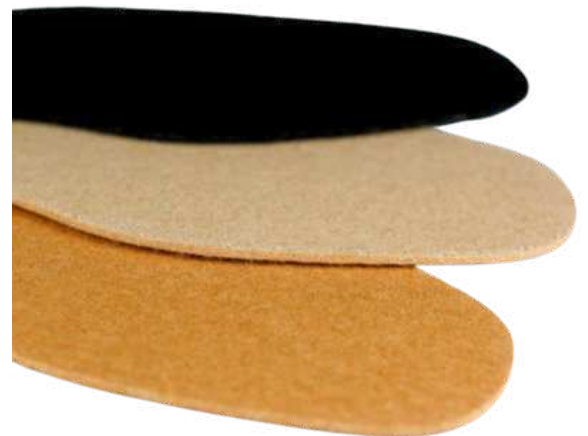
**Standard sheet size:** 100x140cm



## Compact

The range of Compact materials consists of non-woven materials specially designed for the construction of the insole. Non-woven materials impregnated with a mixture of polymers suitable for all types of shoes.

- Breathable
- Abrasion/delamination resistance and the release of moisture



# INSOLE MATERIALS

## Foam



## Pidigel Plus Green

SBR synthetic latex material with scrim coating, used in footwear and specifically for the development of the insole.

- Wrinkle-free moulding
- Excellent shock-proof effect

### Technical Data

- Thicknesses from: 1.3, 2, 3mm
- Roll width: 150cm
- Roll length: 30 metres

**Colour:** Green



## Memory Foam

For the development of insoles for its characteristics to memorize the footprint.

- SBR latex material with 100% viscose gauze

### Technical Data

- Thicknesses: 2.5, 3, 3.5, 5mm

**Colour:** Orange



## Tex Latex

Series of latex foams for uppers and insole padding.

- Materials made with natural and synthetic latex foam

### Product Line

- Tex Latex Plus
- Tex Latex GRZ
- Tex Latex/S



## Kid Microfibre/Latex Foam

Microfibre combined with 3mm latex foam for inserts in orthopaedic footwear.

- Soft touch microfibre cover
- Comfortable insert for patients

**Colours:** Black and Beige

**Supplied on 25 metre rolls.**



## Win Dry



Thermo-mouldable polyurethane agglomerate for the development of insoles that need to maintain temperature and dry-feel.

- Excellent shock-proof effect
- Absorbs foot moisture and releases in form of steam
- Anti-bacterial, with activated carbon against bad odors

### Technical Data

- Thicknesses from: 1.5-2.2mm
- Roll width: 150cm

**Colours:** Black, Green, Red



## Champion Gel

Shock-proof material with very high memory.

- Material in natural and synthetic foam

### Technical Data

- Thicknesses: 2-3mm
- Roll width: 150cm
- Roll length: 30 metres
- Colour: Green





FILLING MATERIALS  
**Foam**



## MTP

Open cell polyurethane foam material for padding elements in the shoe.

- Extremely soft, light and flexible
- Available plain or with adhesive

### Technical Data

- Thicknesses from: 2.5-6mm
- Density: 20-22 kg/m<sup>3</sup>
- Roll width: 150cm

**Colours:** Anthracite and White



## Density HD

High density open cell foam material used as a filler in edges, collars and tongues, or as cushioning layer in the insole.

- Extremely soft and flexible
- Available in plain or with adhesive

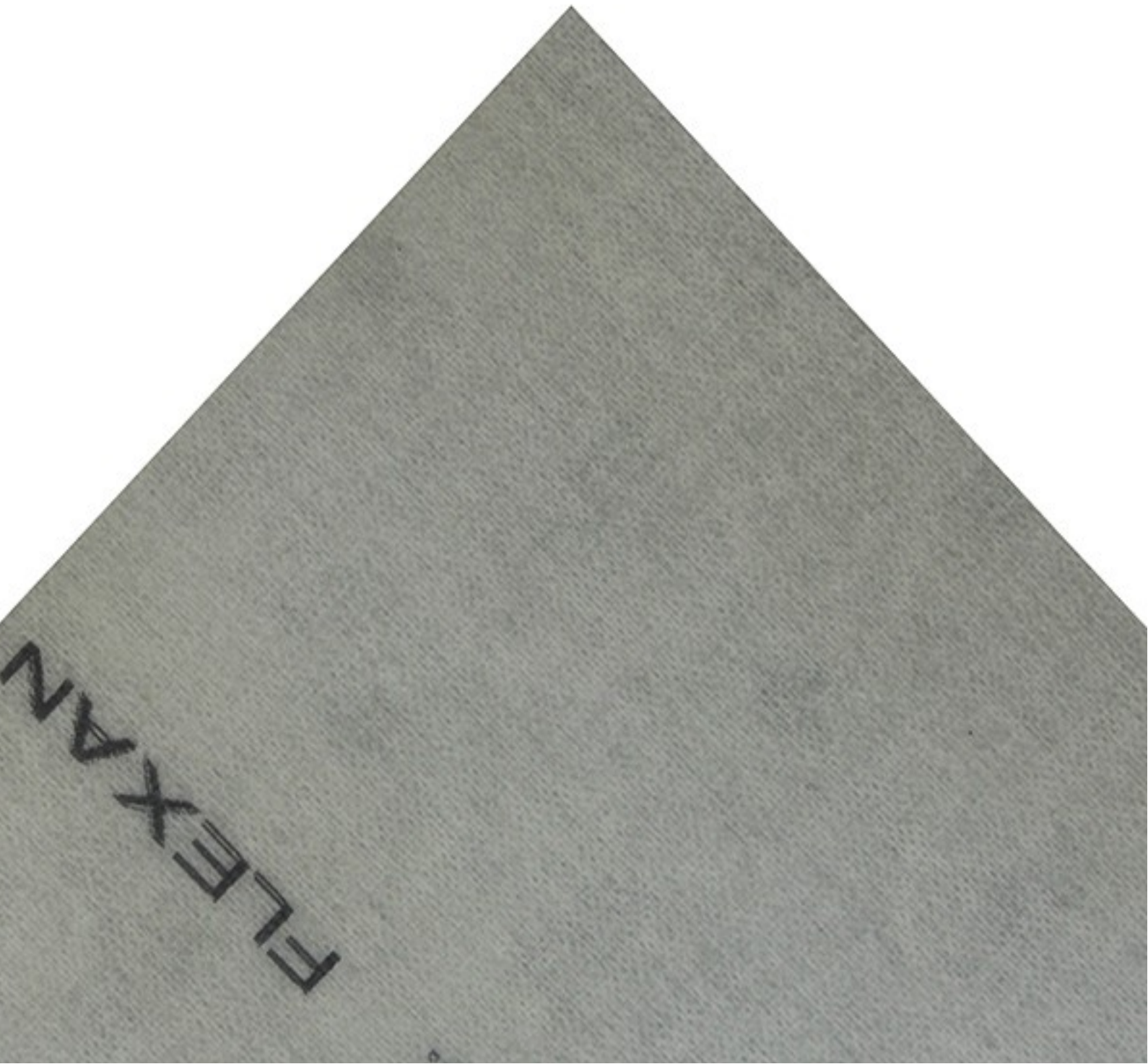
### Technical Data

- Composition: 100% polyether
- Density: 80-85 kg/m<sup>3</sup>
- Thicknesses: 2, 3, 4, 5, 6, 8, 10mm
- Roll width: 150cm

**Colours:** Anthracite and White



TOE PUFF & COUNTER  
Thermoplastic Sheeting



## Thermoplastic Sheeting

Extensive range of stiffeners and fabrics for toe puff and counters for the footwear industry. Our partners Industrie Chimiche Forestali are manufacturers of adhesives and fabrics for the footwear and leather goods sectors. By working together we are not only able to provide competent and professional technical advice, but also to supply a complete system of products able to guarantee the characteristics requested by the customer.

We can supply full sheeting as well as a cut, skived and delivered option which will be completed to your size specifications.

**Contact us to discuss options.**



## Cut & Skived Option

Completed to your specifications



Cut, Skived and Delivered

TAPES  
Reinforcement & Seam Sealing



## Tex Band

Tex Band is a self-adhesive reinforcement tape that is primarily used as a seam reinforcing material. Tex Band ensures a high degree of reinforcement and comfort near the stitching, contributing to the functionality and durability of all high quality creations.

- High performance and speed of application

### Types

- Tex Band® 100 Composition: 100% viscose cotton hand, Recommended for thin skin
- Tex Band® 150 Composition: 50% polyester - 50% cotton, recommended for thin skin
- Tex Band® 250 silk touch Composition: 100% polyester hand silk, for thin skin
- Tex Band® 300 Composition: 100% polyester, recommended for different kinds of shoes
- Tex Band® 400 Composition: 100% polyester, recommended for décolleté shoes
- Tex Band® 600 Composition: 100% polyester, recommended for boots and ankle boots



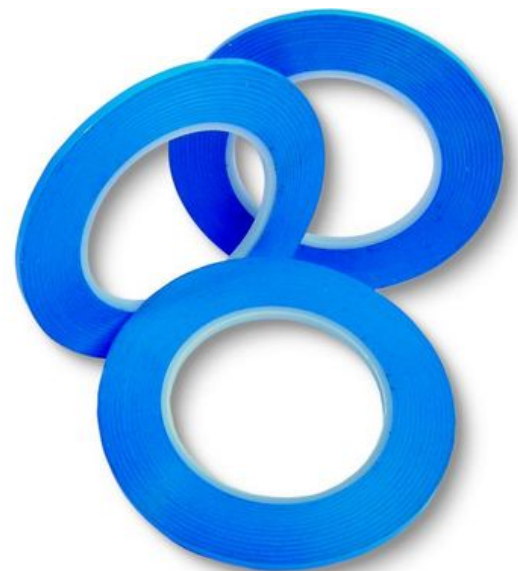
## Non-Woven Biadhesive Blue Tape

Suitable for the prefixing of zippers, especially in curves thanks to its high moldability.

- Easy application
- Adapts perfectly to large degrees of curvature
- Lightweight

### Technical Data

- Support: blue liner
- Adhesive: solvent-based acrylic
- Total thickness: 80 microns
- Roll length: 50m



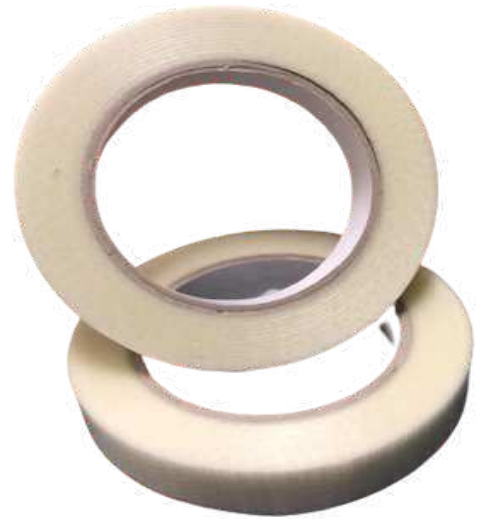
## 1152 Reinforcement Tape

Bi-oriented polypropylene tape reinforced with cross-weave glass fibre which enables it to give a high resistance. Ideal for reinforcing eyelets.

- Crossweave fibreglass reinforced
- High strength
- Not hand tearable

### Technical Data

- Size: 19mmx50m



## Antistrappo Tear Proof Tape

Very high resistance tape, both lengthwise and crosswise, for technical and sports footwear and sectors with very high performance requirements.

- Easy application
- Very high tear resistance
- Recommended for reinforcing eyelets

### Technical Data

- Composition: 100% polyester
- Breaking load: 45 kg/cm sq
- Thickness: 0.12mm
- Roll length: 50m

**Colours:** Black and White



## Biadhesive Superflex 124

Biadhesive tape for pre-fixing in the manufacturing phase.  
High softness and high adhesive power.

- Moldable by hand
- The particular composition of the adhesive does not ruin the needle of the sewing machine

### Technical Data

- Composition: hypoallergenic and eco-friendly non-woven adhesive
- Operating temperature: -40+90 degrees
- Biadhesive colour: transparent
- Support colour: Red
- Roll length: 50m



## Biadhesive Red Flex 700

Biadhesive tape indicated for pre-fixing in the leather manufacturing phase.

- Moldable by hand
- Adhesive does not ruin the needle of the sewing machine

### Technical Data

- Composition: Acrylic base with ceramic lubricating microcapsules
- Thickness 160 microns
- Colour: Red





## SY Seam Sealing Tape

Thermoadhesive tapes made of 2 waterproof layers, essential to preserve the waterproofness of the seams where required according to the construction characteristics of the shoe.

- Flexible, elastic, lightweight
- Excellent malleability characteristics
- Great resistance to washing

### Technical Data

- Composition: 1st layer TPU, 2nd layer PU
- Thicknesses: from 0.07 to 0.12 mm

**Colours:** White/Semi-Clear



## M Seam Sealing Tape

Thermoadhesive tapes with 3 waterproof layers, indispensable to preserve the impermeability of the seams where required according to the construction characteristics of the shoe.

- Soft, light and flexible

### Technical Data

- Liner: single-side on both sides
- Self-adhesive: transparent acrylic
- Size sheet: 100x70cm



# FASTENING SYSTEMS

## Fastening Tapes & Laces



## Lecron

Polyamide hook & loop tapes for footwear.

- Designed to withstand high uses without decreasing the grip between the button hole and hook
- High weather resistance

### Technical Data

- Composition: Polyamide 6/6 (pure nylon)
- Widths: 16, 20, 25, 30, 38, 50, 100, 107, 110, 150mm
- Roll length: 25m



Wide Colour Range

## Shoe Laces

Wide range of laces in various styles, lengths and colours.

Please get in touch to discuss options.

- High quality laces made in Spain



WORKSHOP ESSENTIALS  
Tools & Consumables



## Spray Guns

Spray Guns for painting.

### Products

- A-B: Spray Gun for single jet or fan painting with 250cc nylon rubber tank
- C: Spray Pen for precision painting, with polyurethane pipe connection and small tank



## Edge Dyeing Pen

Available with normal or thin rotating tip in brass.

- Suitable for painting edges and inside eyelets
- Easy cleaning of the pen
- Easy cleaning of the tip



## Edge Dyeing Rotating Pen

Dyeing pen with interchangeable rotating tip which guarantees a longer life of instrument.

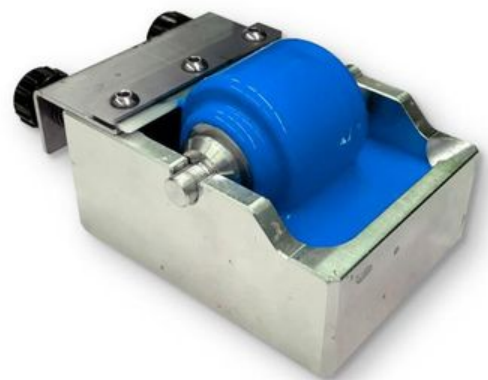
- Brass tips available in two different diameters
- Easy cleaning of the tip
- Better cleaning of the pen



## Dyeing Roller

Dyeing roller in aluminium suitable for footwear and leather goods edges.

- Speed of colour application
- No waste of tint
- Easily washable



## Glue Containers

Glue containers that avoid the drying of the glue thanks to the automatic dispenser and ermetic closure. Ideal for all liquid adhesives that tend to evaporate when exposed to air for long periods.

- Brushes enclosed in container

### Sizes

- Minor: 0.4 litres
- Medium: 0.9 litres
- Major: 1.5 litres
- Gigant: 3 litres



## Brushes

Selection of brushes in wooden and plastic handles.

- Brushes with short wooden handle (iron ring)
- Brushes with short wooden handle (plastic ring)
- Flat brushes
- Nylon brushes with wooden handle



## Gel Ink Refills

Gel ink pens for marking leather and rubber.

- Polypropylene support
- Available with or without marking

### Technical Data

- Sphere diameters: 1.2-2.2mm

**Colours:** Silver and White



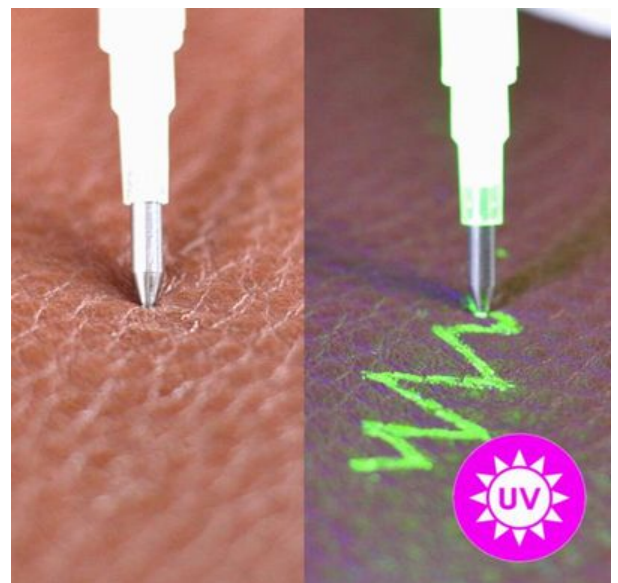
## UV Refills

Refill with ink imperceptible to the naked eye, but clearly distinguishable with the use of UV lamps during the cutting phase.

- No risk of damaging the skin during the marking phase
- Does not need to be cancelled
- Can be used on any type of leather
- UV bulbs available for sale

### Technical Data

- Tip diameter: 2.2mm
- Sphere diameter: 0.8mm





## Thermogel Refills

Thermosensitive and thermochromatic gel ink.

- Polypropylene support

### Technical Data

- Ink: water based and heat sensitive pigments
- Sphere: alloy based on tungsten carbide

**Colours:** White, Orange, Blue, Fuchsia, Black, Red, Green



## Leather Marking Refills

Metal refill with silver ink for marking.

- Ink remover, erasable marking pen
- Available with and without case

### Technical Data

- Sphere diameter: 1-1.2mm

**Colour:** Silver



## Abrasive Cloth Ring

Range of resin-coated abrasive rings for heel and sole sand papering.

- Available in corundum (red colour) and zirconium (blue colour)
- Grains available according to format: from 440 x 35 to 1140 x 50mm

### Technical Data

- Agglomerant: polymerized phenolic resin
- Agglomerating additives: calcium carbonate and cryolite
- Support: cotton canva



## Resinated Cloth Rings

Range of resin-coated abrasive rings for heel and shoe sand papering.

- Suitable for grinding, finishing, cleaning of leather and soles

### Technical Data

- Abrasive composition: corundum or zirconium
- Supports: cotton canvas
- Roll length: 50 m
- Roll height: 35 - 50 - 70 mm
- Grain: from 24 to 400



## Emery Wheels

Emery wheels for skiving machine.

- Available with or without brush
- Excellent cutting capacity, with a slight tendency to heat up during the sharpening phase
- Good finish and yield on blades built with more alloy steels and greater hardness.



### Technical Data

- Dimension without compass: 70x7x17.7 mm
- Dimension with compass: 70x7xM6

**Colours:** Pink or Ruby Red

## Emery Wheels

Emery wheels for hide-splitting machines, made with aluminum oxide (corundum) abrasive.

- Excellent cutting capacity with very low tendency to overheat
- The grinding wheel remains cleaner from clogging due to sharpening residues



### Available Measures

- White: 80x12x9mm
- Ruby Red: 110x51x8, 120x20x9mm
- Light Blue: 100x15x8, 102x40x8, 120x20x9mm

## Hide Splitting Blades

Range of Alber and Steyer hide splitting blades.

- High reliability and total compatability on Alberti, Atom-Ellegi, Camoga, Fortuna, Omsa and Sagitta splitting machines



## Skiving Blades

Steyer, Fortuna and Comelz skiving blades.

### Products

- "S" version for light and normal leathers
- "K" version for heavy leathers



## Bonded Nylon Sewing Thread

Manufactured from nylon 6.6, Somabond bonded nylon has high tensile strength, is chemically stable and rot-proofed. A bonded nylon thread is particularly good for multi-directional and high-speed sewing.

### Technical Data

- Available counts: 40's & 60's



## Elastic Ribbons

Particularly technical and multifunctional accessory that has an aesthetic and functional value in the shoe.

- Its particular characteristics don't limit it to a simple accessory, but make it an important completion that transfers technicality and practicality to each model made.

### Technical Data

- Composition: 71% polyester + 29% rubber
- Heights: from 8 to 400 mm
- Thickness: 0.13mm
- Rolls: 25 m
- Standard colors: Raw White, Black, Dark Brown

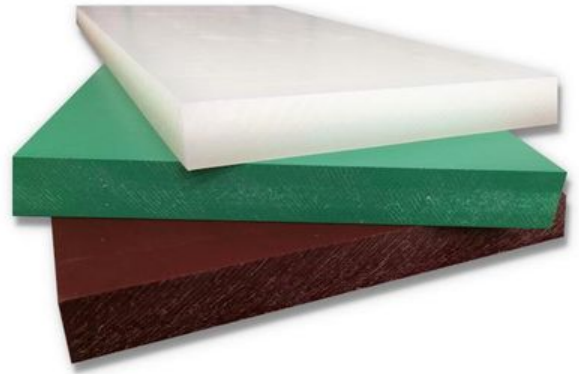
**Colours:** light/dark beige, light/dark brown, military green, red, grey, navy blue



## Cutting Pads

Nylon and polypropylene cutting pads for shearing machines.

- White hardness: 74 ( $\pm$  3) Shore D, with thicknesses 5, 10, 30, 50mm
- Green and red hardness: 62 ( $\pm$  3) Shore D with thickness 50mm
- White nylon hardness: 86 ( $\pm$  3) Shore D with thickness 50mm



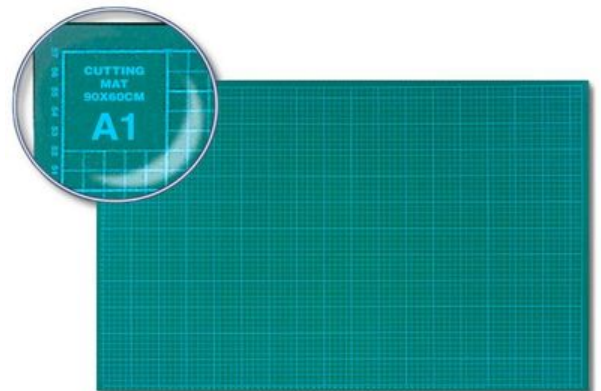
## Cutting Mat For Designers

Cutting mat coated with anti-cut material for use with any material.

- Suitable for model makers

### Available Sizes

- 600x450mm
- 900x620mm



## Scissors

Range of scissors in various sizes and styles.

### Trimming Thread Scissors

- Available with or without hole

### Seamstress-Type Scissors

- Available sizes: 6, 7, 8 inches

### Saw-Toothed Blade Scissors

- Available size: 8 inches

### Saw-Tooth Scissors

- To cut sample of textile materials
- Size: 22cm, 8.5 inches

### Scissors With Curved Blade

- Size: 6 inches



## Pliers

Range of pliers in various types for manufacturing.

### Ball and Ring Pliers

- Plier useful for adjusting the upper of shoes

### Curved Lasting Plier-Special

- Curved lasting plier-special, plastic hand
- Available in: 10-15mm

### Curved Lasting Plier

- Plastic hand



## Wooden Handle Tools

Range of scissors in various sizes and styles.

### Tack Removers

- A-Nickel plated type
- B-"Turin type"

### Wooden Ball Handled Awl

- Available in 50-60mm

### Wood Handle With Screw For Awls

### Flat Handled Punch

### Wooden Handled Trimming Tool



## Hammers

Range of hammers for various applications in shoe-making.

### Nylon Hammer

- Nylon hammer with rubber coated steel handle
- Diameters: 28, 35, 45mm

### Cobblers Hammer

- Medium weight

### Hammers

- **A:** Hammer with two heads
- **B:** Magnetic hammer with interchangeable magnet tip
- **C:** Hammer without handle





## Schmetz Needles

The Schmetz range of needles covers all the needs of the footwear sector. It pays the utmost attention to the needs in terms of materials, manufacturing techniques and product quality, combining all this with the development of customized solutions.

### Features

- For the stitching of leather, Schmetz needles use points with sharp edges.
- Thanks to their etching properties, the needles with a shear tip penetrate the material more easily without overheating, compared to the needles with a round tip.



## Groz-Beckert Needles

The Groz-Beckert® range consists of high-performance needles that can be used in all types of sewing machines, specifically indicated for sewing uppers in leather or technical fabrics.

### Features

- They allow the realization of different types of stitching



## Shoe Tree Sticks

Sticks used for the purpose of preserving the shape of footwear over time.

### Features

- Elastic and very resistant, they are available in two colours: black and white (more rigid material)
- Available in "Standard", "L" and "Barrel" type versions

### Technical Data

- Dimensions: 19, 20, 21, 22, 23cm
- Dimensions type "L": 18.5 - 20.5 - 22.5 cm



## Silica Desiccant Bags

Desiccant bags in "Silica Gel" absorb the water vapor inside the packaging.

### Features

- Their use allows to protect the packaged products from the damage of humidity during transport and storage

### Technical Data

- Contents: silica gel 3g
- Dimensions: 5.5 x 2.6 cm
- Casing material: Tyvek
- Packaging: bag of 2,000 pcs



# ADHESIVES

## Thermoplastic & Solvent



## Flexipol S/38

Thermoplastic adhesive based on extruded polyamide used with automatic machines during the shoe assembly operation. It contains more than 80% of raw materials from renewable resources.

- High speed adhesion
- Excellent flexibility
- Excellent adhesion on leather, synthetic fabrics and regenerated materials



## Flexipol Roll 510 Rapid

Thermoplastic adhesive based on extruded polyester used with automatic machines during the shoe assembly operation.

- High speed adhesion
- Excellent flexibility
- Excellent adhesion on leather, synthetic fabrics and regenerated materials



## AX 753 (Neoprene)

AX 753 is a clear solvent based polychloroprene adhesive. Its particular composition allows a double use:

- as one component adhesive, in upper and insole production for bonding natural and synthetic materials: it is characterized by long open time and good initial strength.
- as two components adhesive, for bonding soles made of synthetic rubber, natural rubber, thunit, micropermeable material as well as to bond leathers. Dry film main features are: high adhesion, great heat resistance and long lifetime.



## AX 301 (Neoprene)

AX 301 is a two-components polychloroprene adhesive with very light colour, especially developed to bond synthetic and natural rubber soles, expanded materials like EVA or SBS based materials (microporose), EPDM, thunit, TR, EVA and leather.

- AX 301 has to be used in addition with a hardener in a percentage of 5-7% wt.
- Main performances: high tack, high heat resistance and very good ageing properties.



## Poligrip 999 (PU)

Poligrip 999 is a high performance one-component polyurethane adhesive, with high thermal resistance. It is mainly developed for bonding sole to upper. It is particularly suitable for bonding materials like PU, PVC, thunit, rubber, micro and leather.

- To improve the performance of Poligrip 999 (especially its resistance to ageing), simply add polyisocyanic hardeners, in a proportion of 2-5% by weight.



## Uniflex 602 (Rubber Solution)

Uniflex 602 is an adhesive based on natural rubber to be used after application to both surfaces to be bonded. Finds particular use in the leather goods and footwear industry for lining operations (e.g. for bonding leather to leather or lining) which are subsequently stitched.

- Uniflex 602 does not alter significantly the natural softness of the leather.



## Cleaner 6 (For PU, PVC and TPU)

Cleaner 6 is suitable for clean polyurethane (also based polyether), PVC, TPU and other synthetic materials. It is recommended to move greasy elements and detaching residues. Cleaner 6 is also suitable to clean vulcanized rubber soiling (previously roughed) before the halogenating treatment.



## Forespray DS9

Forespray DS9 is a based resin and synthetic elastomeric adhesive for spray applications and its main features are: high flexibility, high stickness and high heat resistance.

- It is particularly suitable to bond expanded polyurethane on polyurethane itself, on wood or on metals, or to bond textiles on wood and metals.



Designed & Created by



T.C.Components Ltd

Innovate.Develop.Supply