

### Belts for drying

**B**iscor's open mesh belts are custom fabricated to meet the needs of specific applications. With a range of materials including Teflon® coated e-glass fabric, Kevlar®, Nomex® and polyester mesh, Biscor's engineered products are the solution.

Today's industrial environments dictate quality, quantity and efficient processes to maximise productivity and therefore output and profit. Biscor's drying belts are fabricated to the exacting standards that you require.

Typical applications include:

- Print dryer belts for T-shirts / paper / metal / wood / glass / plastic
- Drying textiles
- Drying foodstuffs
- Feed and take-off belts
- Belts for drying ink and solder onto printed circuits
- Resoldering and ink drying cable braiding
- Handling and drying of non-wovens.



The properties of the belt material also ensures that the belt can cope with cooling chambers and freezing temperatures as well as high thermal environments.

This information sheet details just some of the products and services offered by Biscor Ltd, to ensure you are making the right product choice for your application, please consult with our sales team on 01274 694684.

**T**he porous open mesh belting used in hot air jet drying is significantly less expensive than ovens and dryers with heavy metal belts which are extremely costly to run, replace and repair.

Your Biscor belt can be used in all types of heated environments, with Teflon® coated glass fibre belts working from -73°C (-100°F) to +260°C (+500°F) and resistant to: – see data tables on reverse.

- Hot air
- Infra red
- Ultra violet
- Microwave
- Radio frequency.

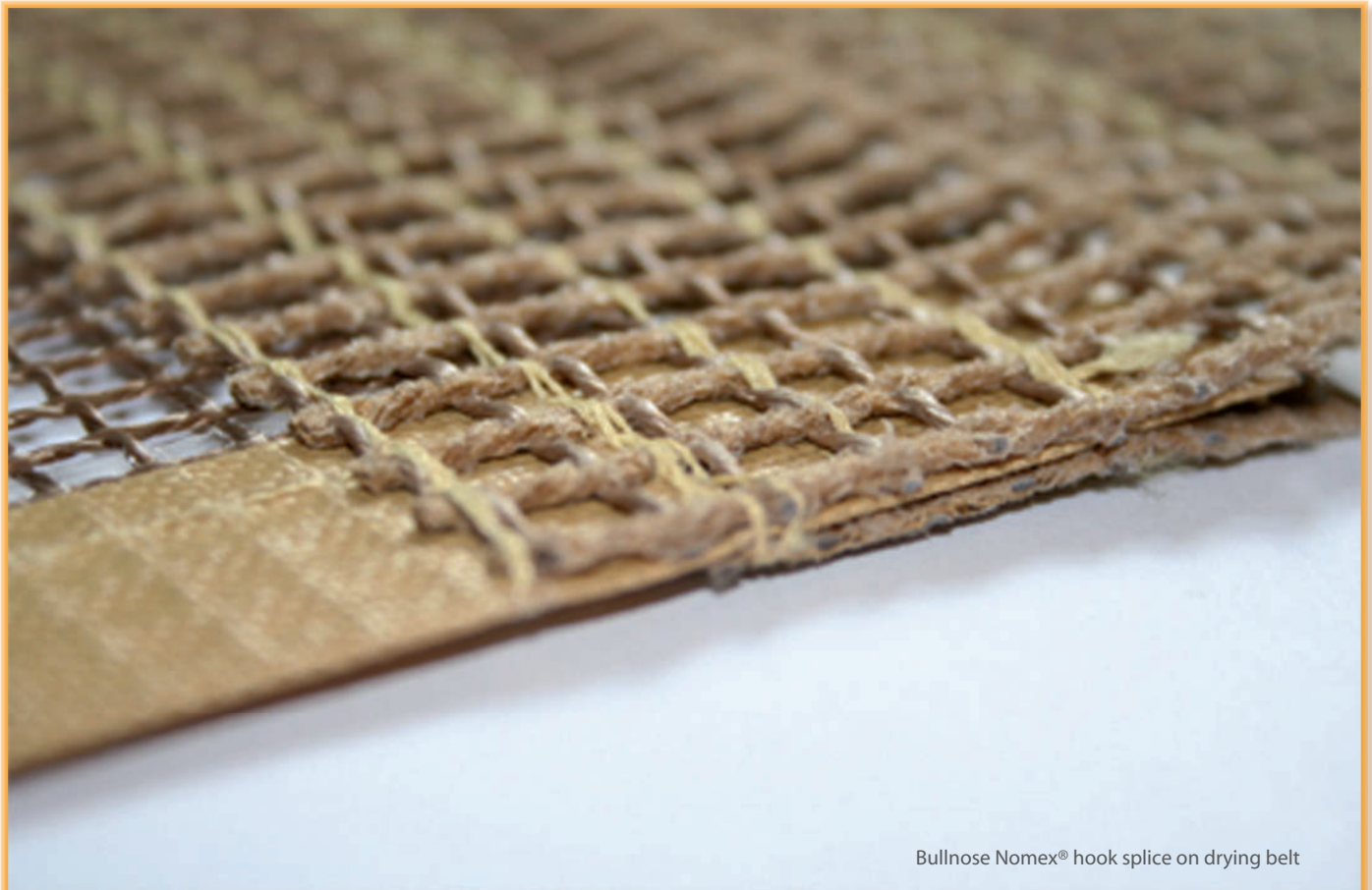


Teflon® is a registered trademark of DuPont™.

## DRYING BELTS FROM BISCOR

Properties of Bisca-Tex open mesh belts are:

- Chemical inertness: affected only by a few rare substances at very high temperatures
- High release from sticky materials 'non-stick'
- Easy cleaning (nothing bonds permanently)
- Chemical corrosion and moisture resistance
- Mildew and fungus resistance
- Outstanding electrical, insulative and di-electric properties
- Ultra-violet, infra-red, microwave, radio frequency resistance
- Non combustible - self extinguishing
- Low thermal expansion: < 5%
- Lightweight and energy efficient for economical operation (low thermal mass).



Bullnose Nomex® hook splice on drying belt

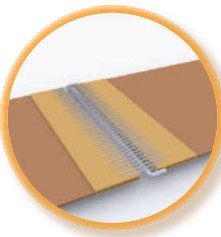
## Splices, guides and edge reinforcements

Select from a range of mechanical and welded splices and edge reinforcements to complete your custom fabricated dryer belt. Each splice is available in a variety of sizes, tailor made to suit your application.

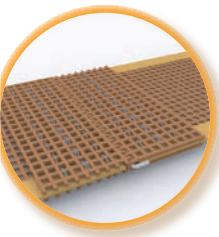
### Splices

Each splice shown below is available in many different formats. There are different sizes of reinforced area, length of metal fastener and variation of join. To discuss the most suitable splice or join for your drying belt, please consult a Biscor representative.

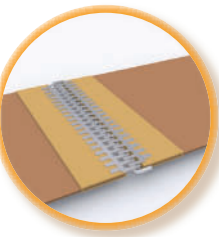
Clipper style



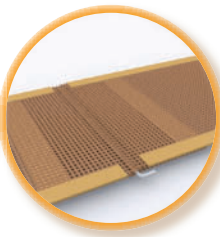
Bullnose style



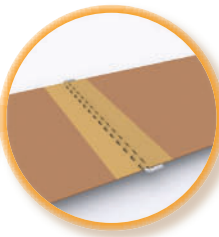
Alligator style



Spiral



Castellated



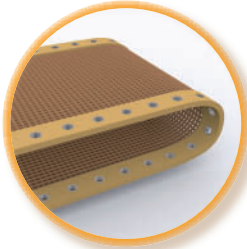
Cover flap



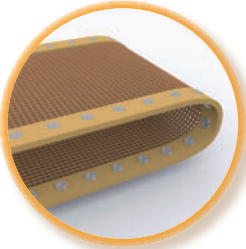
### Tracking

A variety of tracking guides are available, please consult with a member of Biscor's technical sales team to ensure the chosen tracking aid best suits your application.

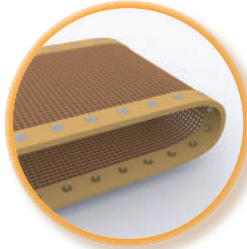
Eyes



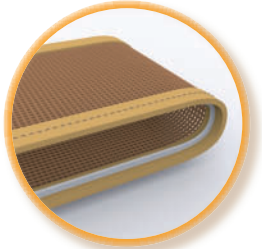
Studs



Dots



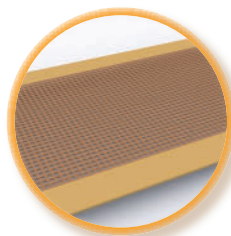
Cord



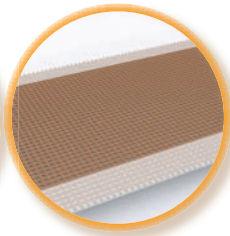
### Edge reinforcements

Our range of edge reinforcement methods can feature on any combination of sides and edges of the belt.

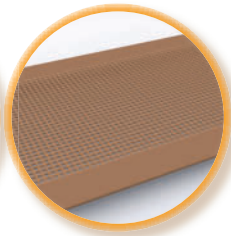
Teflon® coated Kevlar®



Teflon® coated glass



Teflon® film glass



**T**eflon® is a licensed brand name which is granted by DuPont™, its unique non-stick properties and resistance to extreme temperatures of up to 260°C as well as being ultra-violet, infra-red and microwave safe, means it is suitable for many different drying applications in a vast range of industries.

**K**evlar® is renowned for its strength and high flex, it will cope in various aggressive and extreme environments. Kevlar® serves as an excellent substrate for PTFE (Teflon®) because of its ability to operate in areas where high temperature steam and water would normally cause glass fabrics to deteriorate over time.

The inclusion of a reinforced edge provides additional support for guides and tracking aids as well as protecting the belt and improving longevity. Edge reinforcement is recommended for various applications, please discuss your requirements with a technical advisor.

## DRYING BELTS FROM BISCOR

Below are a variety of products with associated summary data regarding their properties. You should discuss the requirements for your specific drying application with our sales team as we are able to provide non-stock, bespoke products and services.

We provide a 24 hour call out service to our customers as well as advice and guidance every step of the way.

### Product range

#### PTFE COATED GLASS - MESH FABRIC

Grade	Thickness (mm)	Coated weight g/m2	Coating	Maximum width (mm/inch)
Bisca-Tex 64-515 - 1x1mm	0.640	515	18	1525 / 60
Bisca-Tex 65-500 - 2x2mm	0.700	450	25	3000 / 118
Bisca-Tex 80-950 - 2x2mm	0.800	950	30	2000 / 79
Bisca-Tex 76-470 - 4x4mm	0.760	470	33	480 / 189
Bisca-Tex 76-470 Blue - 4x4mm	0.760	470	33	480 / 189

#### PTFE COATED KEVLAR® - MESH FABRIC

Grade	Thickness (mm)	Coated weight g/m2	Coating	Maximum width (mm/inch)
Bisca Tex K76-250 - 4x4mm	0.760	250	36	2650 / 104
Bisca Tex K76-250C - 4x4mm	0.760	250	36	2650 / 104

#### PTFE COATED KEVLAR® - ARAMID FABRIC

Grade	Thickness (mm)	Coated weight g/m2	Coating	Maximum width (mm/inch)
Bisca Tex K11-200	0.100	230	73	1000 / 39
Bisca Tex K16-230	0.160	230	73	1000 / 39
Bisca Tex K50-600	0.400	600	53	1525 / 60

#### MONOFILAMENT POLYESTER MESH

Grade	Yarn diameter (mm)	Mesh size (mm)	Free area %	Max width (mm/inch)
Bica-Pol P34-035	0.25	0.35	34	2500 / 98
Bisca-Pol P44-100	1.00	0.50	44 - 45	2500 / 98
Bisca-Pol P50-168	0.7	1.68	50	2500 / 98

Values shown are typical and are subject to change without notice. Before using, the user should determine the suitability of the product for its intended use and assumes all risk and liability in connection therewith. Specifications are subject to change without notice. Weight tolerance g/m2 + or - 5% variation. Teflon® content + or - 2% variation.

To find out more, please contact our sales team to find out more about our drying belts or other products and services. We are happy to send samples of our materials or visit you at your offices or factory to discuss how Biscor's products can best suit your application. We have many stock fabrics and belts, but we also pride ourselves in our bespoke products.

Important note: All statements, technical data and information in Biscor Ltd literature and on the company websites are not binding and were correct and up to date at the time of publication. Modifications and adaptations to comply with changing guidelines and standards can be made without notice. Product properties and characteristics are dependent upon the environment and application in which the product is used. The user shall determine the suitability of the product for their particular purpose and shall assume all risk liability in connection therewith.