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Fothergill Coated Fabrics Ltd

PTFE coated fabrics, tapes and process conveyor belts

Fothergill Coated Fabrics

Introduction

Fothergill Coated Fabrics manufacture premium quality fluoropolymer-coated performance fabrics from a state of the art coating facility in Rochdale, England.

The purpose-designed factory embodies the latest processes and coating technology to achieve consistently high standards across a range of materials.

For more than one-and-a-half centuries the name of Fothergill has represented the finest quality in woven textiles. The unique symbol of the tiger's head is recognised by customers throughout the world as a mark of innovation and unsurpassed performance.

Fothergill Coated Fabrics, which is ISO9001:2000 registered, develop, manufacture and market PTFE Coated Fabrics for use in a wide range of demanding applications. FCF bring together the most up-to-date coating and converting technology with decades of production and market knowledge to offer customers superior products and service across the globe.



Product Range

- PTFE Coated Glass and Aramid Fabrics
- Pressure Sensitive Adhesive Coated Fabrics and Tapes
- High Performance Process Conveyor Belts
- Advanced Silicone and Elastomeric Coated Fabrics

Fothergill Coated Fabrics products combine:

- Low Friction, Non-Stick, Excellent Release
- Temperature Resistance from -180°C to +300°C
- Inherent Strength and Flexibility
- Non-Toxic
- Excellent Chemical Resistance
- Outstanding Dielectric Strength

Capabilities

FCF utilise custom designed production processes for coating glass and aramid fabrics up to 4.0 metres wide, and additionally, etching and adhesive coating finished products up to 1010mm wide.

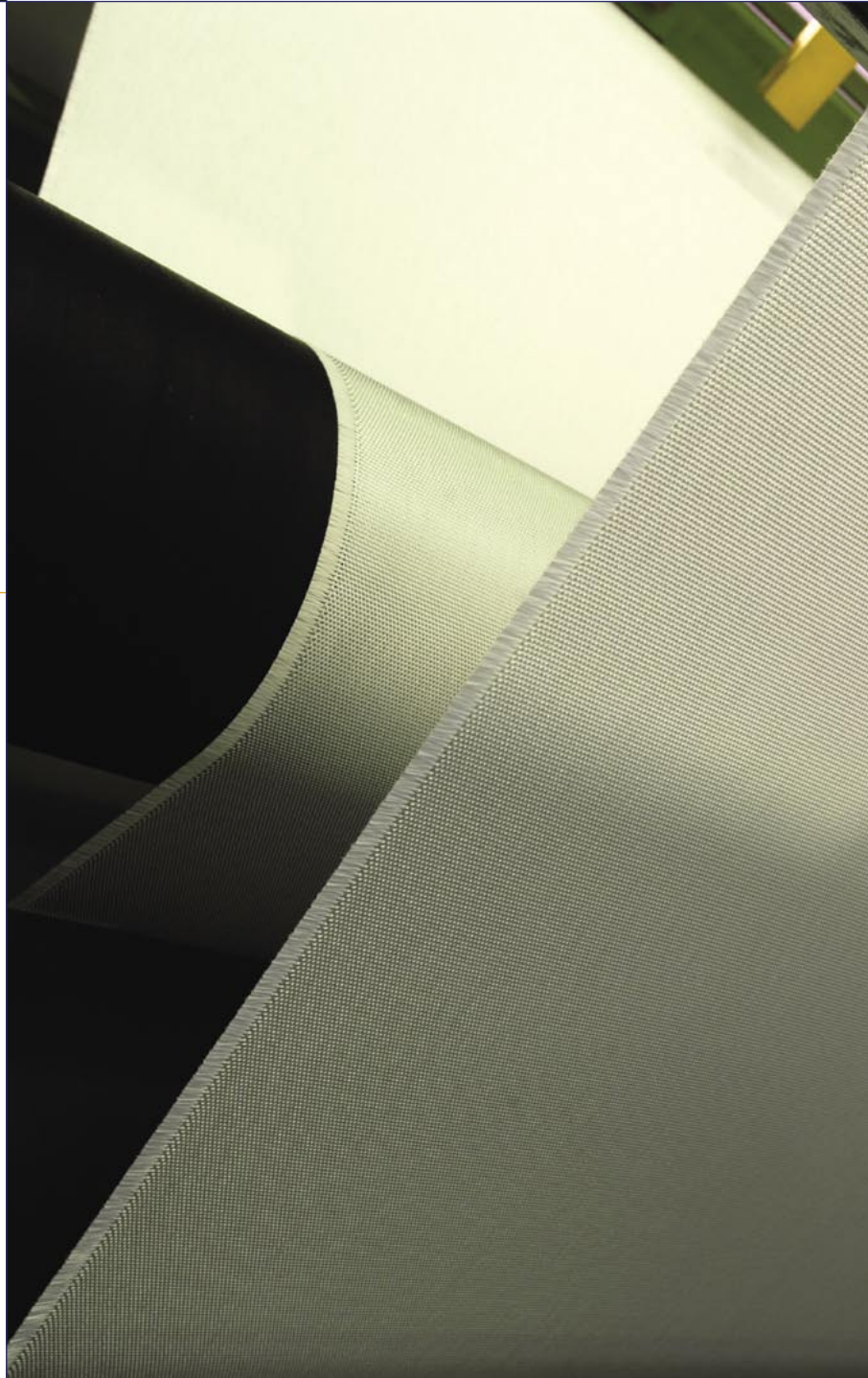
FCF's in-house process conveyor belt fabrication specialists produce bespoke solutions for many varied industries including textile drying, rubber extrusion, packaging and food processing to name but a few. Fabric rolls can also be slit to any width to suit any application.

Quality

FCF's production facility incorporates the highest standards. Environmentally controlled, it ensures exceptional quality and consistency in coated finish.

Stringent inspection and testing, carried out at every stage of manufacture, guarantees FCF's products are durable, reliable and provide outstanding performance in the toughest operating conditions.

The woven base fabrics are sourced from Fothergill Engineered Fabrics, which is ISO 9001:2000 registered and has a world-wide reputation built on 60 years expertise in Glass and Aramid textile production.



Applications

FCF products provide solutions to production and process problems in industries as diverse as aerospace and food or abrasives and polymer processing.

Apparel

Conveyor belts for laminating and fusing garments.
Transfer printing platen press covers.

- Low friction
- Smooth, easily cleaned surface eliminates mark-off and protects finish quality
- Good heat transfer

Textiles

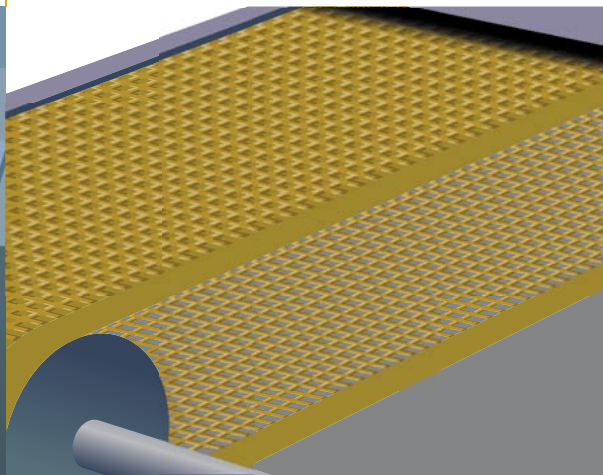
Conveyor belts for drying natural and synthetic, knitted, woven and non-woven textiles.
Thermal bonding.
Covers for drying cylinders.
High temperature processing of non-woven fabrics.
Lamination to foam and other polymeric sheeting.

- Non-stick
- Anti-static
- Heat resistant
- Smooth surface
- Easily cleaned

Packaging

Non-stick covers for heat-seal jaws. Side sealing belts.
Open mesh belting for shrink wrappers.
Shrink wrap tunnel curtains.

- Good heat transfer
- Non-stick eliminates PVC/PE build-up in bag-making
- Improves product flow
- Prevents heat loss
- Saves energy



Fabric Grades

Grades 02 to 05 - PTFE Coated Closed Weave Glass Fabrics

A versatile and extensive range of release materials engineered to meet the most demanding applications.

- 05 Grades** have the highest PTFE coating giving a smooth superior finish.
- 04 Grades** have a standard coating level.
- 03 Grades** have a lower, more economical coated finish.
- 02 Grades** are PTFE coated to give porous release characteristics.

Utilising a variety of substrates, coating thickness and surface finish each of these grades offer unsurpassed end use performance at optimum process efficiency.

Also available in the following variants:

- Adhesive backed fabrics
- Self-wound adhesive backed tapes
- Conductive grades

Grades 06 to 10 - PTFE Process Conveyor Belt Fabrics

The belting grades are designed for maximum thermal and dimensional stability, durability and release characteristics. Based on either glass, aramid or glass aramid combinations in closed and open mesh constructions these grades are manufactured to specific customer requirements.

Grade 21 - Advanced Silicone and Elastomeric Coated Fabrics

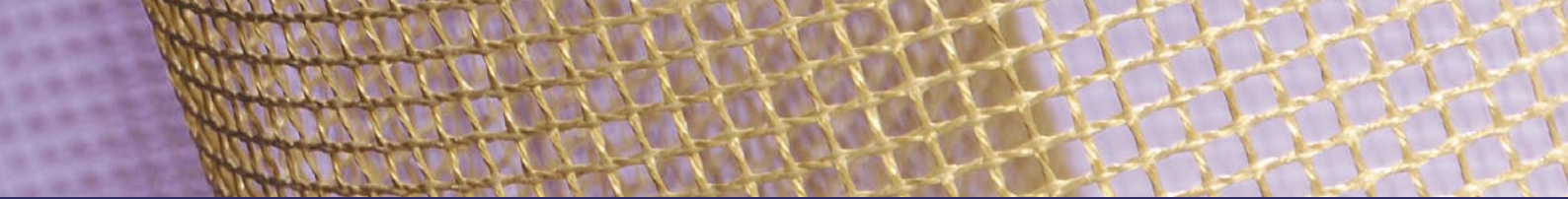
FCF's advanced silicone rubber coated glass fabrics are flexible, durable and have excellent release characteristics over an operating temperature range of -65°C to +250°C. Available with white, grey or red silicone on one side or both sides these products are produced up to 1.5m wide as standard and 1.83m wide as special lightweight grades. Other high performance elastomeric-coated fabrics are also produced to specific customer requirements.

Conveyor Belts

High Performance Conveyor Belts

FCF has in-house fabrication facilities to produce belts tailored to customer specifications.

A selection of joints and edge reinforcements are available as illustrated.



Screen printing

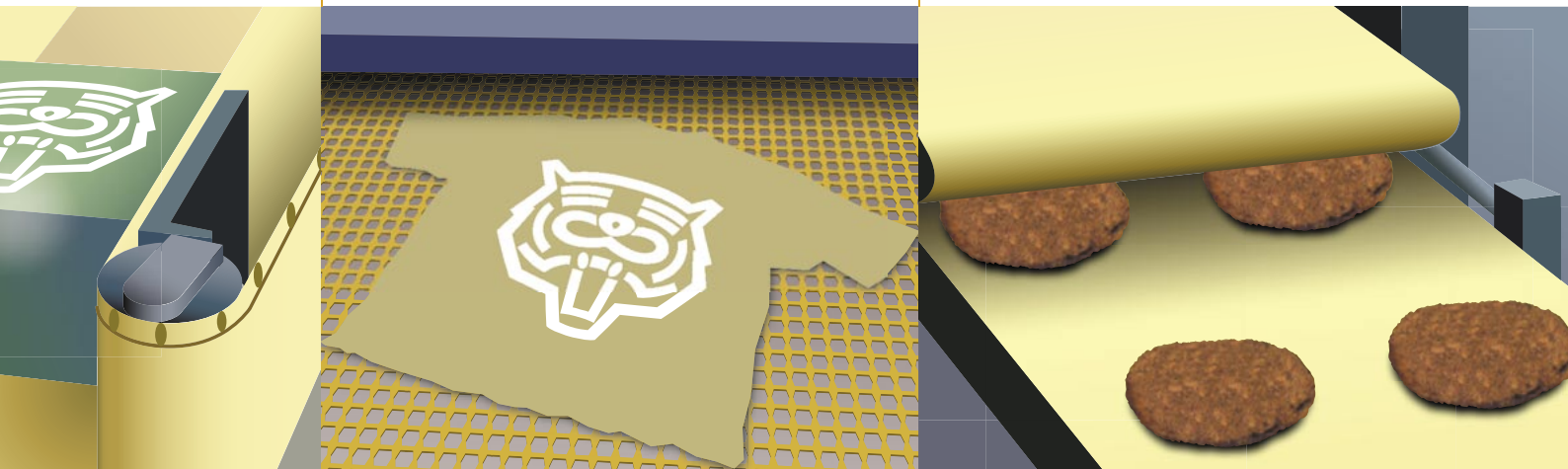
Dryer belts for all types of ink and varnish applications.

- Highly resistant to ink and dyes
- Low energy absorption
- Eliminates mark-off

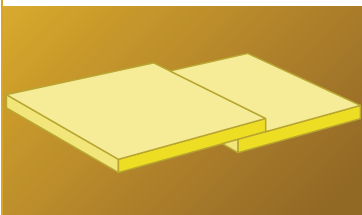
Food

Baking tray liner.
 Conveyor belts for grills.
 Baking and cooling confectionery and biscuits.
 Cryogenic freezing of produce.

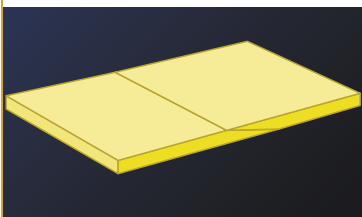
- Non-stick
- Non-toxic
- Inert
- Coatings comply with FDA and USDA regulations
- Unaffected by microwaves
- Easy clean
- -150°C to +260°C range



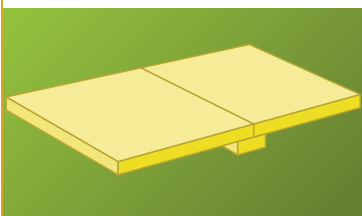
Fused



Overlap

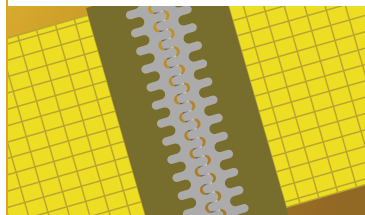


Scarfed

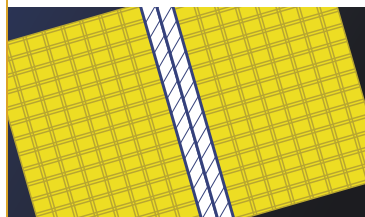


Butt

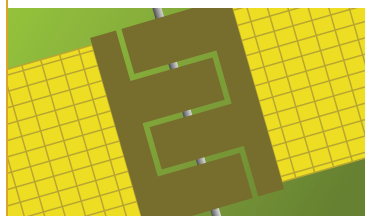
Mechanical



Alligator (Clipper)

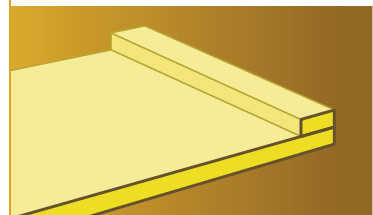


Non-metal spiral

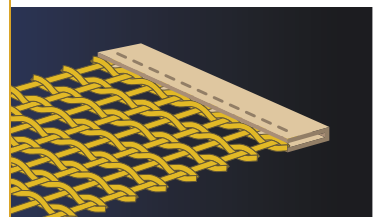


Castellated

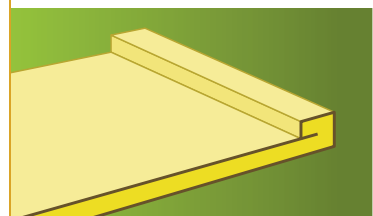
Edge Reinforcements



Fused Strip



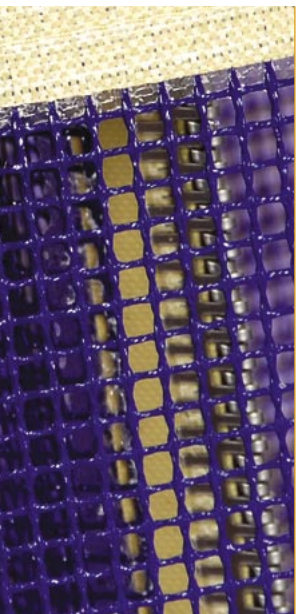
Encapsulated

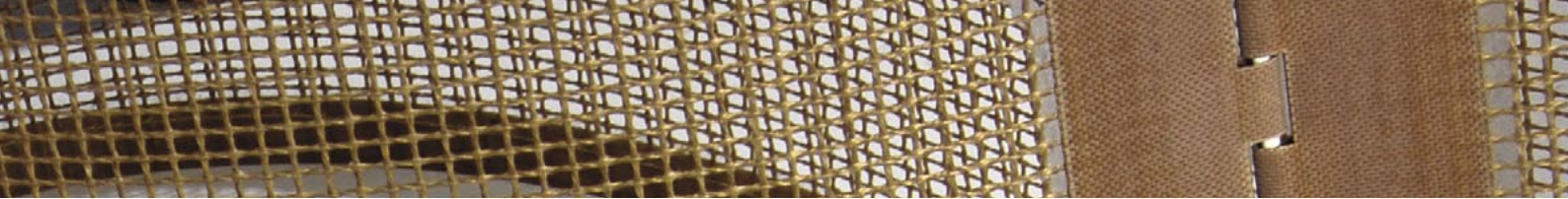


Folded and Fused

Fothergill Coated Fabrics

Industry	Application	Benefit
Floor coverings	Conveyor belt for casting and curing PVC backed carpet tiles and underlay. Pressing rubber backed mats.	<ul style="list-style-type: none"> - Good release - Anti-static - Eliminates mark-off - Promotes good air flow - Low energy
Polymer processing	Resin impregnation of fibres. Production of imitation leather. Curing rubber extrusions, paint chips, PU, PE, PVC. Recycling thermo-plastic sheeting. Heat sealing jaws.	<ul style="list-style-type: none"> - Excellent release - Good heat resistance to 300°C - Unaffected by microwaves
uPVC welding	Platen covers for bonding doors and windows.	<ul style="list-style-type: none"> - No residue build up - Good heat transfer - Easy release
Abrasives	Release-layer between grinding discs during curing.	<ul style="list-style-type: none"> - Easy release - Eliminates cleaning - High temperature capability
Wire and cable	Insulation and shielding.	<ul style="list-style-type: none"> - High dielectric strength - Heat resistant - Corrosion resistant - Uniform electrical performance
Aerospace	Release sheets for bag moulding, autoclaves and platen presses.	<ul style="list-style-type: none"> - Controlled porosity - Anti-static - Excellent release and contour conformance
Chemical	Protective curtains. Gaskets and membranes.	<ul style="list-style-type: none"> - Chemically inert - Easily cleaned - Corrosion resistant - Non-flammable
Electronics/ Electrical	Cable insulation, braiding and reinforcement. Insulation for motors, relays, transformers, solenoids, etc. PCB release sheets. Conveyor belts for PCB ink drying and resoldering.	<ul style="list-style-type: none"> - High dielectric value - Resists heat and corrosion - Laser markable - Light weight - Non-flammable - Flexible and tough - High tensile strength
Food	Baking tray liner. Conveyor belts for grills. Baking and cooling confectionery and biscuits. Cryogenic freezing of produce.	<ul style="list-style-type: none"> - Non-stick - Non-toxic - Inert - Coatings comply with FDA and USDA regulations - Unaffected by microwaves - Easy clean - -150°C to +260°C range





FCF Code System

FCF products use a 4 digit code system (e.g. 04-08) sometimes followed by individual letters to denote product variants.

Closed Weave Glass Fabrics

The first 2 digits represent the following;

- 05** = The top quality, highest PTFE content
- 04** = The standard level of quality and PTFE content
- 03** = The economy level with lower PTFE content
- 02** = The porous range of fabrics

The next two digits are the nominal thickness in mm.

For example 05-08 is the top quality 0.08mm (0.003 thou) thick plain fabric.

Belting Fabrics - closed weave and open mesh, glass, aramid and glass/aramid combinations

The first 2 digits represent the following;

- 06** = Closed Weave Glass grades
- 07** = Open Mesh Glass grades
- 08** = Closed Weave Aramid grades
- 09** = Open Mesh Aramid grades
- 10** = Aramid/Glass Open Mesh grades

The next two digits are the nominal thickness in mm.

For example 07-95 is an open mesh glass fabric with a nominal thickness of 0.95mm.

Additional Variant Classifications

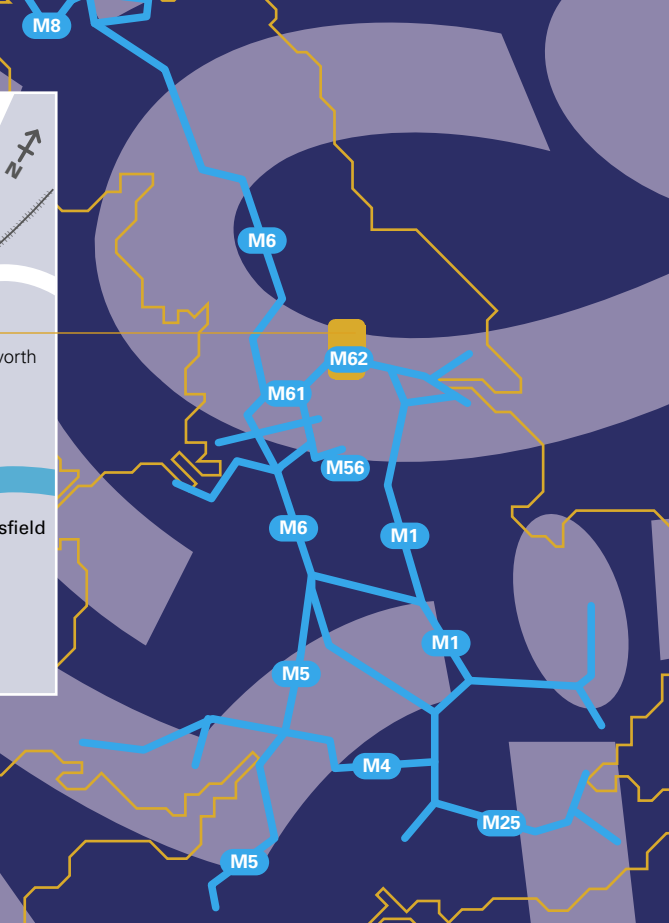
- C** = Conductive
- CT** = Conductive with Topcoat
- S** = Silicone adhesive one side with release liner
- TR** = Tear Resistant
- FGS** = Food Grade Sparkle

All statements, technical information and recommendations contained in this brochure are given in good faith and are based on tests believed to be reliable, but their accuracy and completeness are not guaranteed. They do not constitute an offer to any person and shall not be deemed to form the basis of any subsequent contract, nor constitute any warranty or representation as to quality, or fitness for purpose. All products are sold subject to FCF's Standard Terms and Conditions of Contract.

Accordingly the user shall determine the suitability of the products for his intended use prior to purchase and shall assume all risk and liability in connection therewith. It is the responsibility of those wishing to sell items made from or embodying the products to inform the user of the properties of the products and the purposes for which they are suitable, together with all precautionary measures required in handling those products.

The information contained in this brochure is under constant review and liable to be modified from time to time.





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