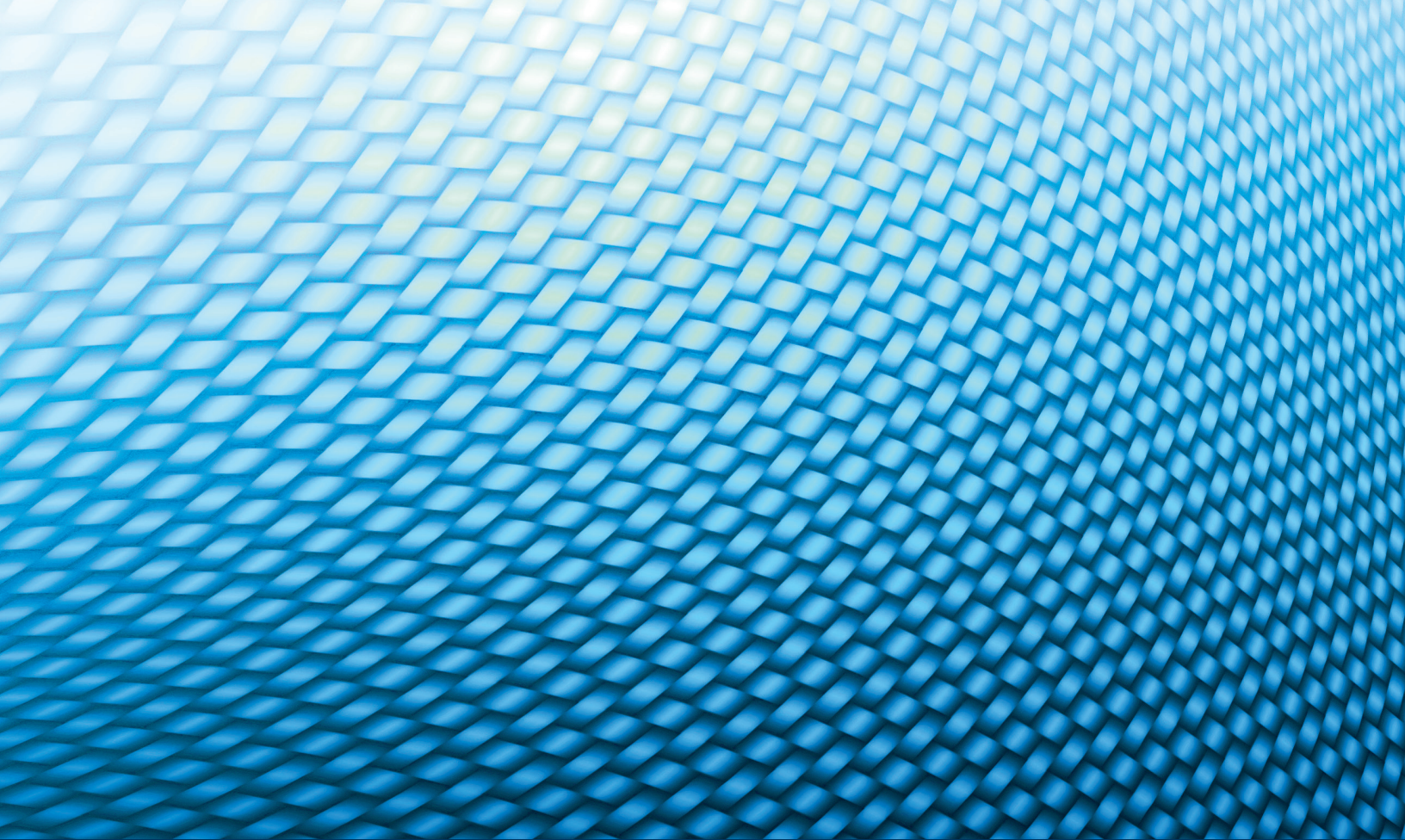




Engineered Performance Products

Creating Innovative Solutions. Together.



Milliken™

Milliken is an innovation company that has been exploring, discovering and creating ways to enhance people's lives since 1865. Our community of innovators has developed one of the largest collections of patents held by a private company. With expertise across a breadth of disciplines including specialty chemical, floor covering, and performance materials, we work around the world every day to add true value, improve health and safety, and make this world more sustainable.



Engineered Performance Products

We have built our reputation on designing unique, competitive products to solve our customers' challenges.

Milliken offers a wide range of fabric formation and chemical application technologies ideal for creating an engineered fabric to fit your needs. Our extensive knowledge of textiles and textile chemistry allows us to design products to meet and exceed your performance requirements - as well as recommend material alternatives for improved value stream economics.

Our approach to problem solving combined with rapid prototyping capabilities enable concurrent iterations of concepts that dramatically reduce development cycle time and expense.

Whatever the application, our team of experts will engineer a textile solution for you.



Single ply roof using a Milliken reinforcement.

Breadth of Manufacturing Capabilities

YARN TECHNOLOGIES

Yarn Types

Monofilament
Multifilament
Bi-Component
Spun
Tape (*Slit Film*)

Processing

Texturing (*Crimp, Twist, others*)
Multi-Ply Twisting
Chemical Application
Warping / Slashing
Sectional Warping

Fiber Types

Polyester, Nylon, Fiberglass,
Aramids, Polypropylene, Cotton,
Wool, Rayon, & others

FABRIC FORMATION

Weaving

Air Jet
Rapier
Water Jet
Projectile
Leno Weaving
Narrow Width
Jacquard

Knitting

Raschel
Weft Insertion
Bi-Axial
Stitchbonding
Circular

Laid Scrim

Tri-Directional
Square

Non Woven

High Loft
Needlepunch

Tufting

DYEING / FINISHING

Dyeing

Jet Dye (*piece*)
Beam Dye
Range Dye
Inkjet (*Millitron*)
Screen Printing

Face Finishing

Embossing
Sanding
Hydrofinishing
Napping / Shearing
Stretching
Calendering

COMPOSITE FORMATION

Lamination

Adhesive
Flame
Hot Melt
Film
Needle

Slitting

Hot Knives
Floating Knives
Polymer Ribbon
Score Cutting
Ultrasonic

Sewing

Quilting

Moldable

FINISHING CHEMISTRIES

Chemistries

Adhesion Promoters
FR
Soil Release (*Visa*)
Solvent Repulsion
Antimicrobial
Antistatic

Coatings

Dip
Knife
Foam
Extrusion

Applications

ROOFING

Single Ply Membrane Reinforcements
Modified Bitumen
Fleece Backing

BUILDING & CONSTRUCTION

HVAC Duct
Fabric Ducting
Gypsum Reinforcements
Geomembrane

COATING & LAMINATING/ INDUSTRIAL

Automotive Vinyl Scrim
Water Repellent Fabrics
FR Fabrics
Laminating Substrates

TAPE

Multi-use Duct
Acetate
Wire Harness
Medical

TIRE

Ready-to-use In-tyre Reinforcements
Process Liners & Bladder
Chafer
Bead Wrap
Cap Ply

MECHANICAL RUBBER GOODS

Belting
Release Liners
Hoses
Diaphragms

CABLE MANAGEMENT

Segmented Conduit
Pulling Tape
Flexible Innerduct

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The logo features the word "Milliken" in a white, elegant, cursive script font. A small trademark symbol (TM) is positioned at the end of the word.

reinforcements.milliken.com