

Milliken®

Ready-to-Use Tire Reinforcements

Milliken's ready-to-use tire reinforcements can reduce tire weight and rolling resistance while also delivering production efficiencies in the tire plant. Bias chafer, tacky bead wrap, and MilliCap™ cap ply strips arrive at the tire plant pre-oriented, RFL treated, tackified, slit, and ready to use. Tire plant mixing, calendering, cutting, splicing, and the associated waste streams are avoided. Milliken applies tackifier chemistries without organic solvents, for environmental benefits. Our expertise in textile engineering as well as adhesion and tackifier chemistry enables us to meet your specific requirements for building tack, rubber adhesion, and tire performance.

Ready-to-Use Fabrics

Pre-oriented, treated for adhesion and green tack, ready to use directly at the tire building machine - no preparation, calendering, or slitting required in the tire plant.

Milliken also offers a full range of conventional chafer fabrics, and Milliken is a one-stop shop for process liners. With manufacturing, sales, and technical support for the tire industry in Europe, Asia, and North America, Milliken supports our customers globally.



Milliken is a leading global supplier of textile reinforcements for end-use markets including tires, mechanical rubber goods, roofing membranes, tapes, abrasives, automotive, and other industrial applications. Our fabric formation capabilities include weaving, warp knitting, laid scrim, and nonwovens, complemented by a wide range of treating and finishing options. We are an innovation company and look forward to working with you to address your critical reinforcement challenges.

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Milliken™
reinforcements.milliken.com

Ready-to-Use Tire Reinforcements



MilliCap™ Cap Ply Strips

MilliCap™ makes a better tire

Ready-to-use cap ply strips that can reduce rolling resistance and the amount of rubber, energy, and preparation needed to produce a tire

BENEFITS

- Reduced tire weight and improved rolling resistance
- Applied directly from the package at the tire building machine reducing inventory and complexity.
 - No calendaring/slitting required
 - Adequate green-tack
 - Tailor-made adhesion formulations
- Higher modulus-to-weight ratio than traditional calendared cap ply
- Improved tire uniformity thanks to an advanced slitting technology
- Stable fabric with open geometry for rubber strike-through
- Significant waste reduction
- Longer bobbins – up to 6.000 m
- Longer shelf – up to 6 months



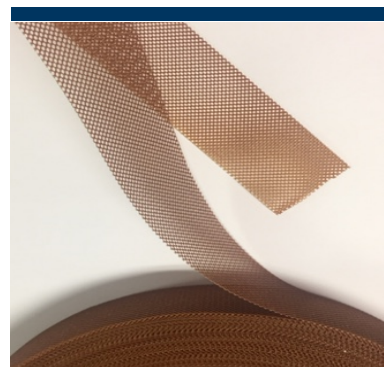
Tacky Bead Wrap

For the toughest applications

Regular-tack and high-tack bead wrap strips treated with advanced aqueous tackifier chemistries for performance and environmental benefits

BENEFITS

- Ready to use at the tire building machine
 - Building tack is built in
 - No calendaring required
 - Already slit
 - Adheres to customer rubber stocks
- Controlled tension and unwind during high-speed wrapping
- Reduced process waste
- Conformable
- For spiral and envelope wraps, local and full applications
- Prevents bead wire end separation
- Maintains bead structure & position during tire building and mounting/dismounting
- Aqueous tackifier chemistry — organic solvents not used



Bias Chafer

Saves time & materials

Chafer strips with pre-oriented bias fabric construction for conformability; treated, tackified, and precision slit; lighter weight than many traditional chafers

BENEFITS

- Ready to use at the tire building machine
 - Building tack is built in
 - No calendaring required
 - Already slit
 - Adheres to customer rubber stocks
- Pre-oriented bias construction; conformable
- Splice-free
- Wound to customer length on cores
- Lighter weight than many traditional chafers; greater coverage per unit weight

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