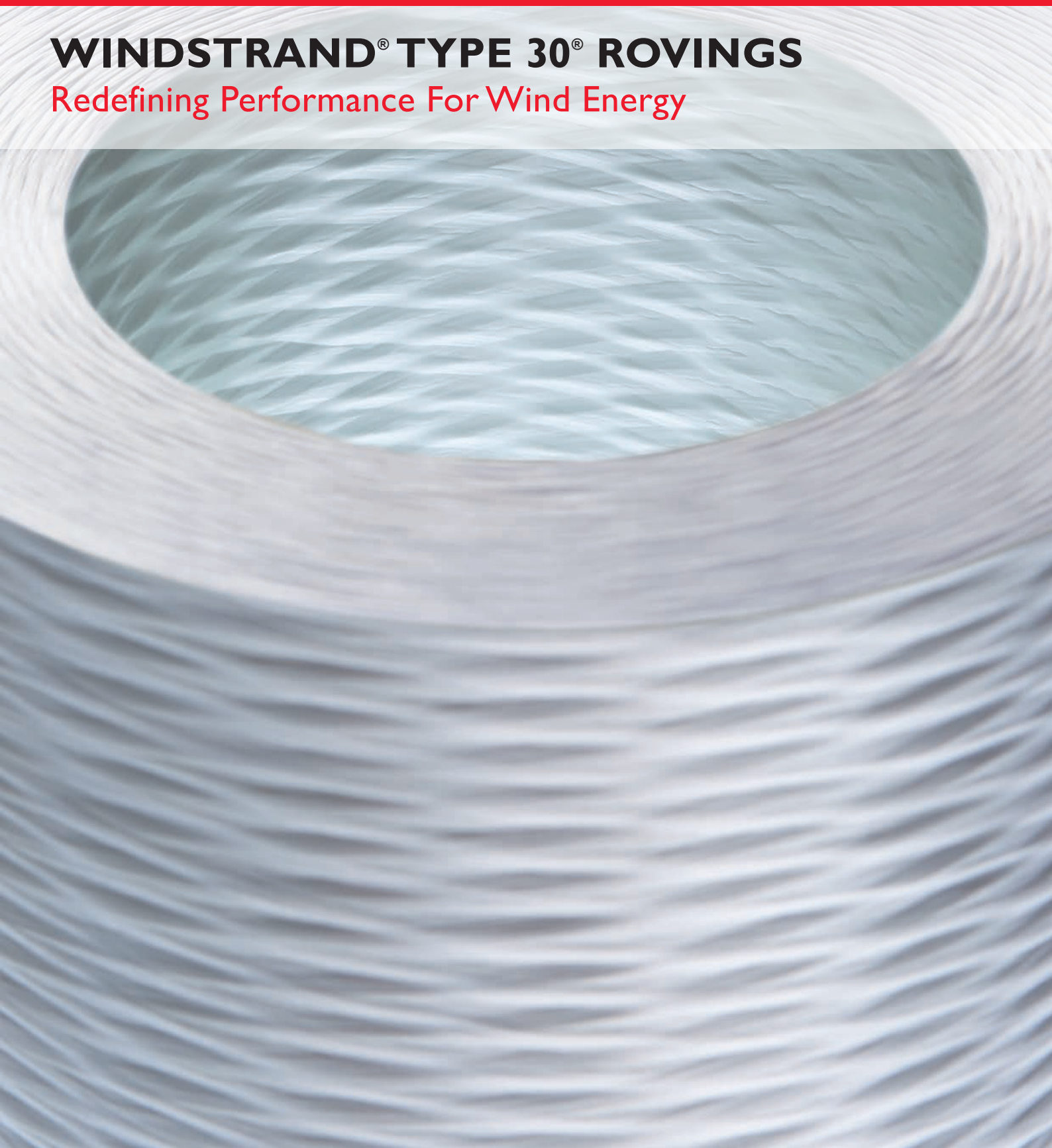


WINDSTRAND® TYPE 30® ROVINGS

Redefining Performance For Wind Energy

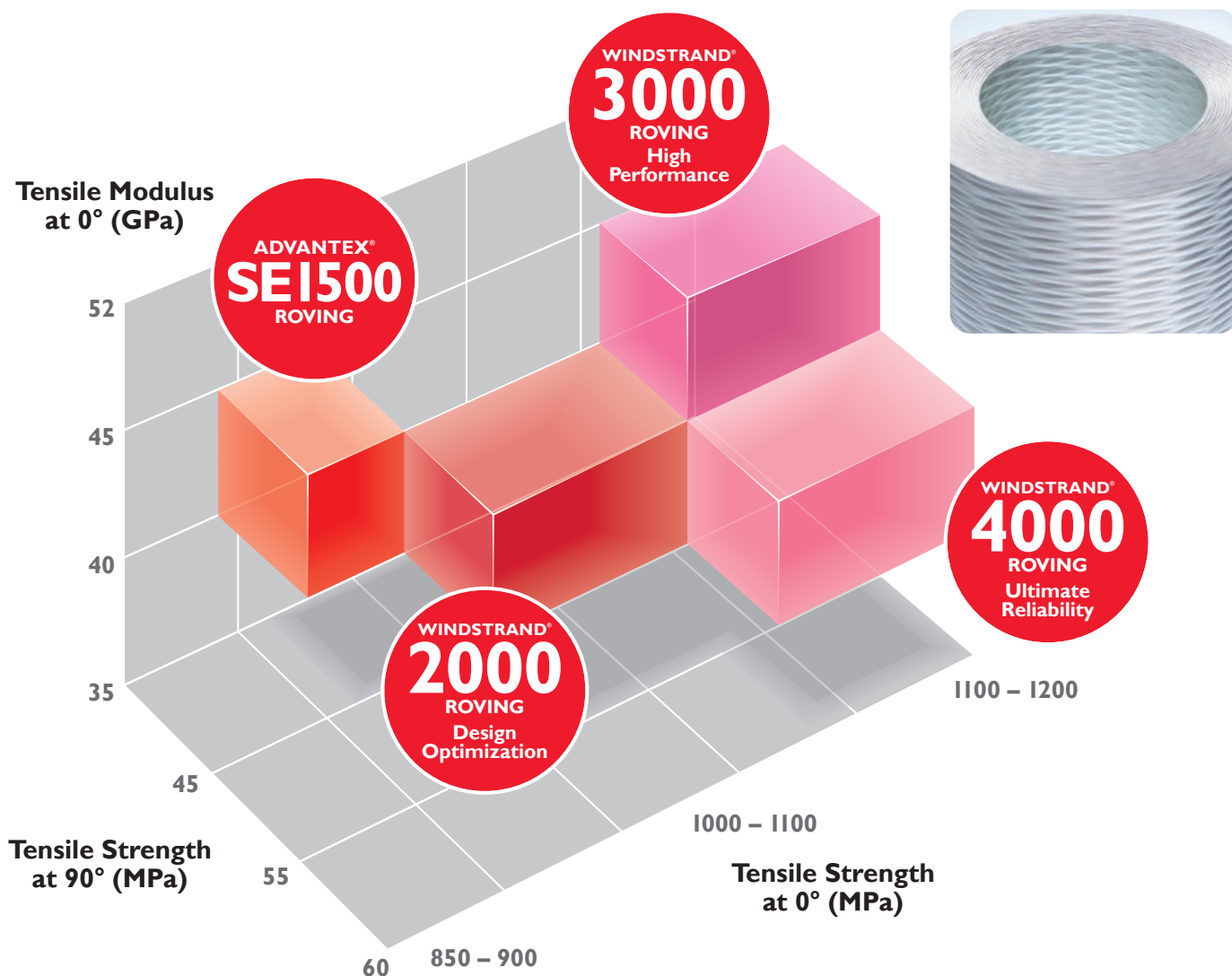


REDEFINED PLATFORM TO MEET EMERGING INDUSTRY NEEDS

Driving demand in the wind energy industry is the production of longer and lighter high-performance blades capable of operating in extreme environments, and the reduction of material consumption, manufacturing and operating costs. The new WindStrand® roving solutions feature a powerful combination of optimized design, high performance, and ultimate reliability for longer blades – both on-shore and off-shore – and in low-wind areas.



WINDSTRAND® ROVING SOLUTIONS: A POWERFUL COMBINATION OF OPTIMIZED DESIGN, HIGH PERFORMANCE, AND ULTIMATE RELIABILITY



WINDSTRAND® 2000 ROVING

- Production in 5 locations
- Enhanced 90° properties
- Operation at increased FVF (Fiber Volume Fraction) levels
- High weaving efficiency



WINDSTRAND® 3000 ROVING

- 0° fiber modulus greater than 88GPa
- Enhanced 90° properties
- Operation at increased FVF levels
- High weaving efficiency
- 3-6% blade weight reduction*



WINDSTRAND® 4000 ROVING

- Maximum 90° properties
- Operation at increased FVF levels
- Optimal use of resin performance
- High weaving efficiency
- 2-3% blade weight reduction*





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