

R25H & R25HX SINGLE-END ROVING

Reliable mechanical properties



Type 30® R25H single-end roving is specifically designed to maximize strand wet-out, allowing for high speeds in UV cured pultrusion processes, while also allowing for superior mechanical properties for filament winding processes.

- ✓ Ideal for UV-cured pultrusion of central stiffness members for fiber-optic cabling.
- ✓ Enhances pipe lifetime in chemical and sewage pipe markets, is safe for use in pipes used for water distribution, and is suitable for weaving.
- ✓ Compatible with polyester, vinyl ester, and epoxy resin systems.
- ✓ Produced with patented Advantex® corrosion-resistant E-CR glass, helping enhance service life and durability in applications facing corrosion compared to standard E-glass.

FOR PULTRUSION AND FILAMENT WINDING

Product Benefits



Excellent Processing

- Features easy unwinding and excellent package run-out for uniform dispersion with low fuzz and static, which means less cleanup and better machine efficiencies.
- Fast wet-out and high-resin pickup, equating to increased quality in the parts' visual aspect after molding.



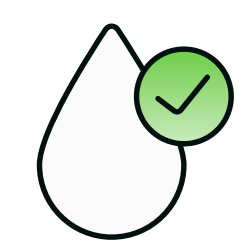
High Thermal Properties

- High heat resistance and easy texturization suitable for muffler-filling applications



Multi-Resin Compatibility

- Designed for excellent adhesion with polyester, vinyl ester, and epoxy resin systems. Compatibility with multiple resins allows changes in resin systems without the need for the time-consuming effort of changing glass in the creel.
- Works well with UV-cured resins, allowing for use in high-speed UV processes and translucent applications.



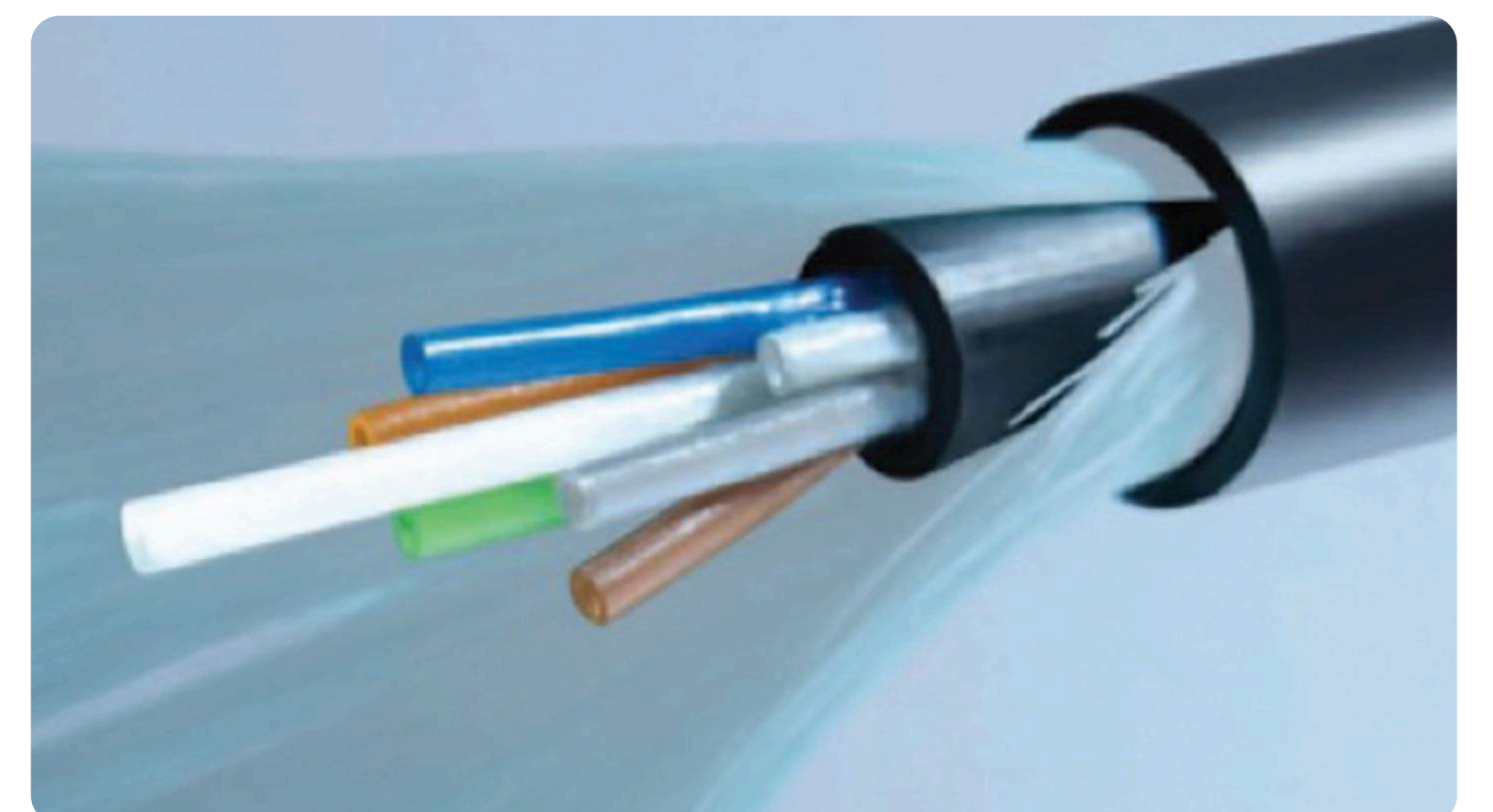
Potable Water Compliant

- Meets regulations as suitable for water distribution in both civil and industrial applications¹.

¹Only R25HX produced in L'Ardoise meets water compliance.

Application

R25H is a versatile solution for central stiffness members for fiber-optic cabling, cylinders and pipes. Industries include telecommunications, chemical and sewage pipe, water distribution, pultruded profiles, and muffler filling



Mechanical Properties

The following data was generated using production material R25H — 1200 tex - 17µm (413 yield):

STRAND TENSILES: ASTM D2343		STRENGTH (MPa)	STRENGTH (KSI)
Anhydride Epoxy Resin		2710	393
Polyester Resin		2604	378

INTERLAMINAR SHEAR STRENGTH ASTM D2344	DRY SHEAR STRENGTH (MPa)	DRY SHEAR STRENGTH (PSI)	SHEAR STRENGTH RETENTION 72- HOUR BOIL (%)
Anhydride Epoxy Resin	80.2	11632	81
Polyester Resin	62.8	9108	83

This information and data contained herein is offered solely as a guide in the selection of product. Published product values are typical performance estimates and may vary by manufacturing location, production run, testing method, and application. Products are tested as part of our quality processes and manufactured to applicable specifications. Actual performance may vary. We reserve the right to update published values, specifications, and product characteristics without notice. All values are provided for informational purposes only and do not guarantee performance. Customers are responsible for determining the suitability of the product for their intended use and should conduct appropriate testing and evaluation. Except as otherwise provided in applicable sales terms & conditions, no warranties of any kind, express or implied, including those of merchantability and fitness for a particular purpose.

Availability & Packaging

R25H is available in the Americas, Europe, and Asia Pacific, however R25H water compliant product is produced only in Europe.

TEX	410	600	900	1200	2400	4800
FILAMENT DIAMETER (µm)	13	17	15	17	17, 24	24

Rovings are available in a single-end internal-pull package. Each pallet weighs about 1 ton. Pallets are stretch wrapped for load stability. All doffs are wrapped with Tack-Pak® or shrinkable film for protection during transport. Full doffs are available in 20 kg (45 lb), 25 kg (55 lb), and 32 kg (71 lb), depending on shipping location and are packaged in bulk. More information is available in the Customer Acceptance Standards.

Labeling

Each individual package is labeled with information, including product name, tex/yield, producing plant, and production date.

Storage

Unless otherwise specified, it is recommended that glass fiber products be stored in a cool, dry area. Recommended long-term storage conditions are temperatures between 10°C and 35°C and relative humidity between 35% and 85%. While temporary deviations may occur during storage or transportation, product performance can be confirmed through routine verification testing if exposure outside these conditions has occurred for an extended period. Glass fiber products should remain in their original packaging until the point of use. To help prevent condensation, keep product in its original, unopened packaging and allow it to naturally acclimate to the workshop temperature for at least 24 hours before opening or use. Packaging is not waterproof and should be protected from weather and other sources of moisture. Although fluctuations may occur during transportation, handling, and temporary storage, products should be maintained within the recommended storage ranges after receipt to help preserve product performance. A defined shelf life has not been established for the product when stored under recommended conditions. However, retesting is recommended after three years from the date of manufacture to help ensure optimum performance.

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