



TEKUR GIBAT HIGIT

Best Corrosion Resistance Solution

Enhance Composite Material



Boron-Free Fluorine-Free Glass Fiber



Company Profile

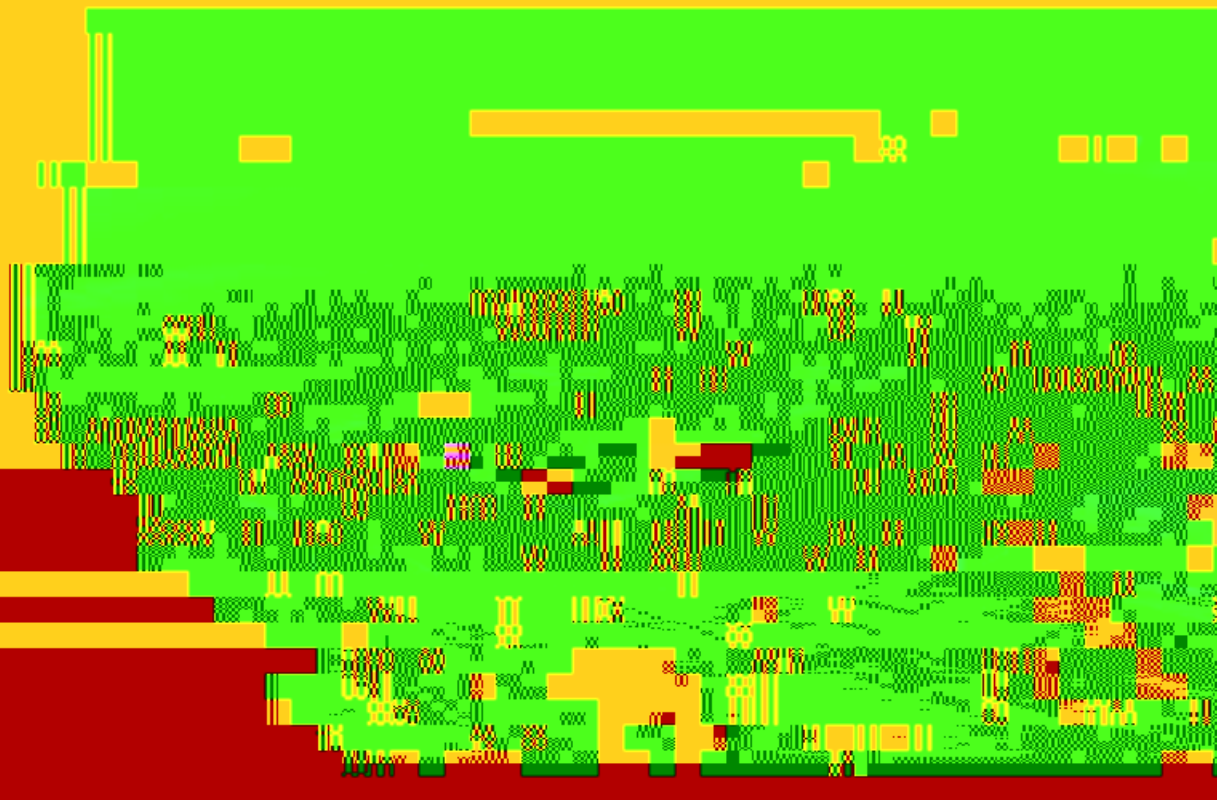
Jushi Glass Fiber Roving is a leading manufacturer of glass fiber products, specializing in E-glass and C-glass fibers. The company has a long history of providing high-quality, reliable products to a wide range of industries, including automotive, construction, and aerospace.

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GOALS

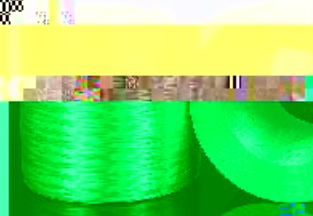
Low Corrosion Resistance Solutions for High Performance Composite Materials

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E6-CR GLASS FIBER

Excellent
Corrosion
Resistance



Compared with typical E-glass fiber, E6-CR offers the following unique benefits:

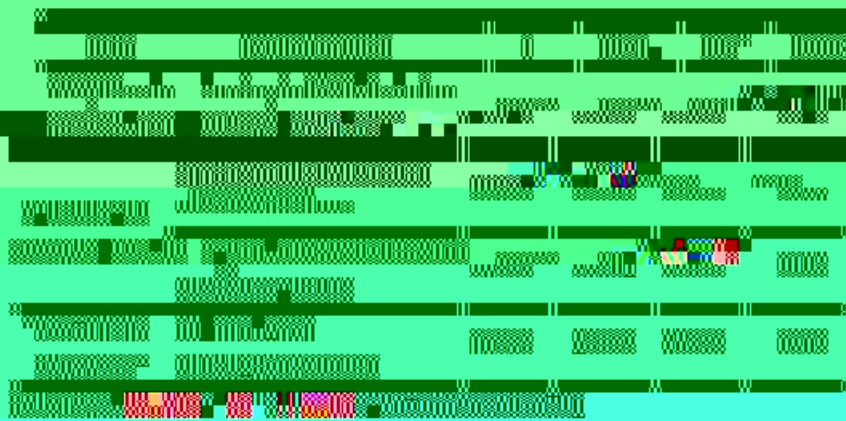
- Higher chemical stability
- Boron-free fluorine-free, to ensure clean production

E6-CR glass fiber is produced with a unique glass

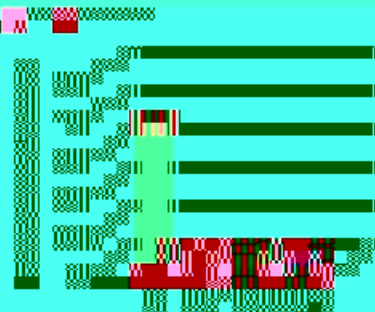
Weight loss composition of

The low weight loss in corrosion resistance is especially significant in the acid

soaking

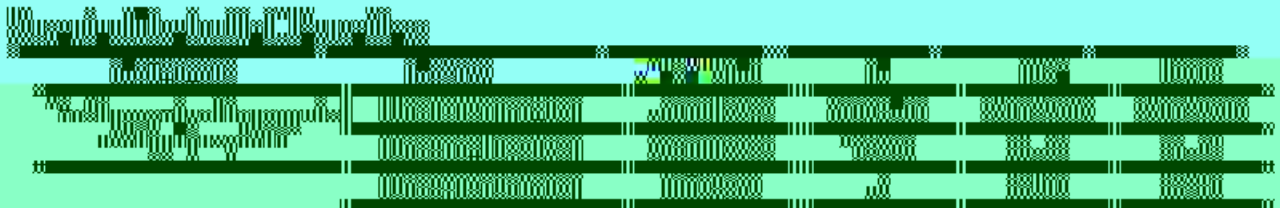
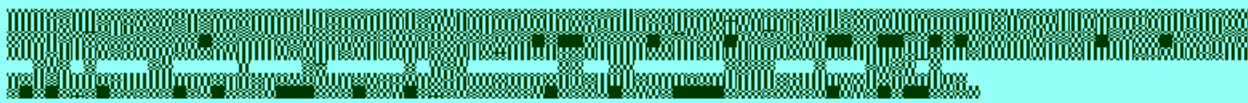


Environment	E6-CR Weight loss (%)	E-glass Weight loss (%)
H ₂ SO ₄	~2	~15
HNO ₃	~2	~15
HCl	~2	~15
H ₂ O ₂	~5	~25
H ₂ O	~2	~15
H ₂ O ₂ +H ₂ SO ₄	~10	~45



E6-CR REINFORCEMENTS

Excellent Environment Durability



(tested in 0° direction),
Infusion process.

Epoxy resin	Tensile modulus (GPa)	ISO 14126	/	42.6	42.9
	Fiber Volume Content (%)	ISO 1172	/	53.6	54.0
	Tensile strength (MPa)	ISO 14126	/	805.5	810

High resistance to water absorption

Water absorption is a critical factor in the durability of composite materials. E6-CR reinforcement has a low water absorption rate, which helps to maintain its mechanical properties over time.

Hand laid laminates	Tensile strength (MPa)		GB/T 1447	38.1%	11.4%
	Tensile modulus (GPa)		GB/T 1447	2.8%	1.9%
	Flexural strength (MPa)		GB/T 1449	29.5%	22.3%
	Flexural modulus (GPa)		GB/T 1449	2.6%	1.8%

Temperature Resistance

Glass fiber reinforced composites are increasingly used in harsh environments, such as pipes used in oil-field to transport high temperature and high pressure fluids. E6-CR reinforcement has excellent temperature resistance, which helps to reduce the strength and thus shorten the operating life of composite materials.

Figure 1 shows the relative loss of properties after the exposure to high temperature. The samples were first tested at room temperature, then heated for 10 days at 100°C, and then put in an 80°C environment for another 10 days. The relative loss of properties after the exposure is shown in the table below.

Hand laid laminates	Tensile strength (MPa)		GB/T 1447	17.0%	15.4%
	Flexural modulus (GPa)		GB/T 1449 <td>14.0% <td>12.8% </td></td>	14.0% <td>12.8% </td>	12.8%

ENVIRONMENTAL PROTECTION

Become a Model for Clean Production

China Jishi is committed to improving our environmental footprint. We have invested heavily in the most modern technologies available to reduce pollution measures and our investment improved output. New technology reduced total waste gas emissions from the furnace by 80% and the nitrogen oxide emissions by over 90%. State of the art glass recycling technology ensures zero discharge of process waste glass. Modern waste purification technology ensures zero discharge of industrial waste water from our production process. CO₂ gas flow is produced by more efficient production technology and process which not only improves the product performance, but also control air pollutants at source. The development of CO₂ gas flow is consistent with our sustained commitment to waste responsibility and sustainability. If only have we achieved the goal of increasing our glass fiber products, but we also have improved our environmental footprint at the same time.





Offer Best Technical Support



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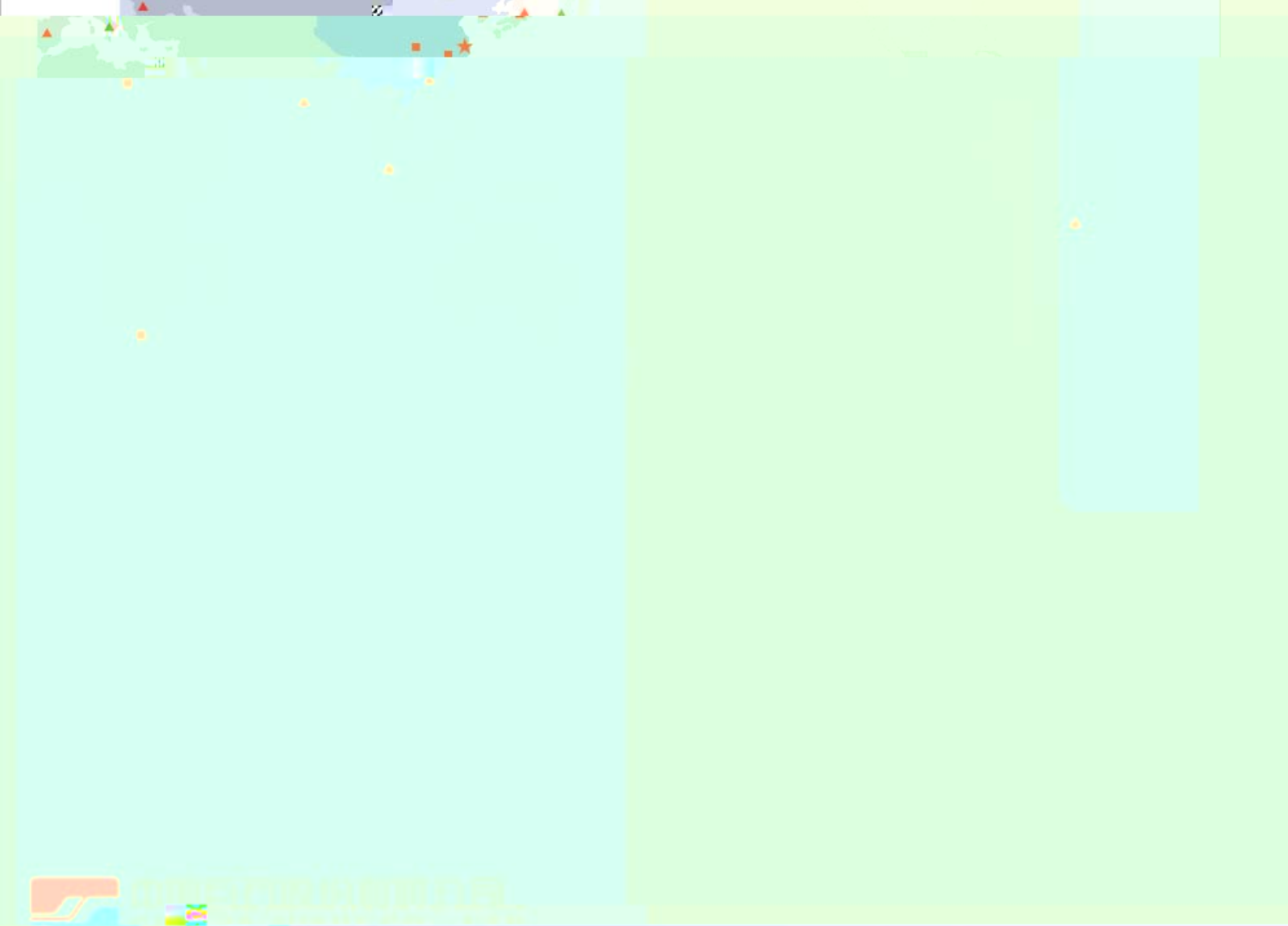
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★ All the data given in this brochure is preliminary only. Jushi
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ICES is an intergovernmental organization that provides scientific advice to governments on sustainable fisheries and marine ecosystems. It was established in 1952 and has 35 member states and 12 associate members.

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