

High Performance "E6[®] Enhanced Glass Fiber"
Will Promote the Progress of Composites.

E6[®]

Enhanced Glass Fiber

- High Performance Environment-friendly Fiberglass
- Compliant with ASTM D578 and ISO 2078 Standards
- An Optimal Combination of Boron-free E-glass and E-CR Glass



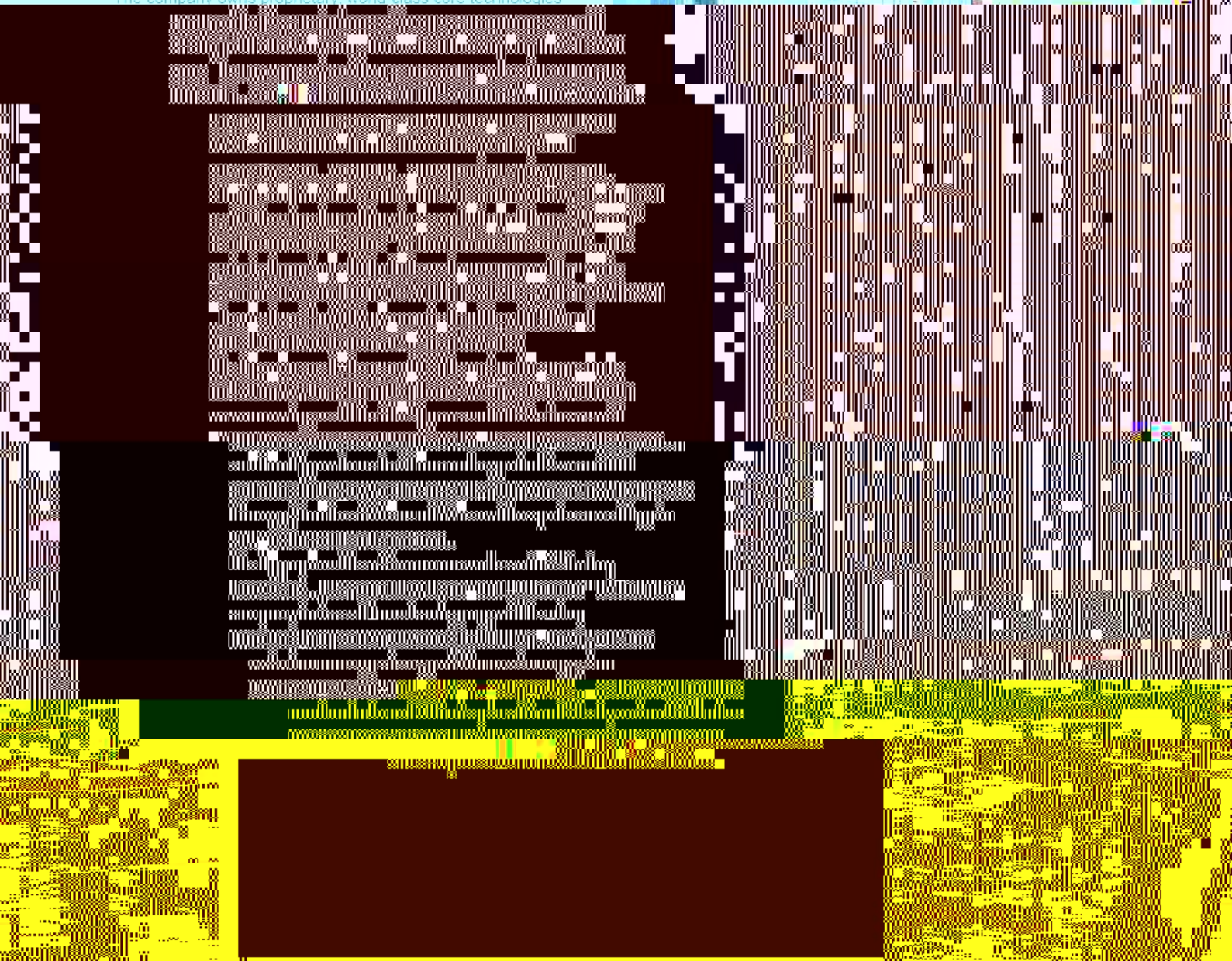
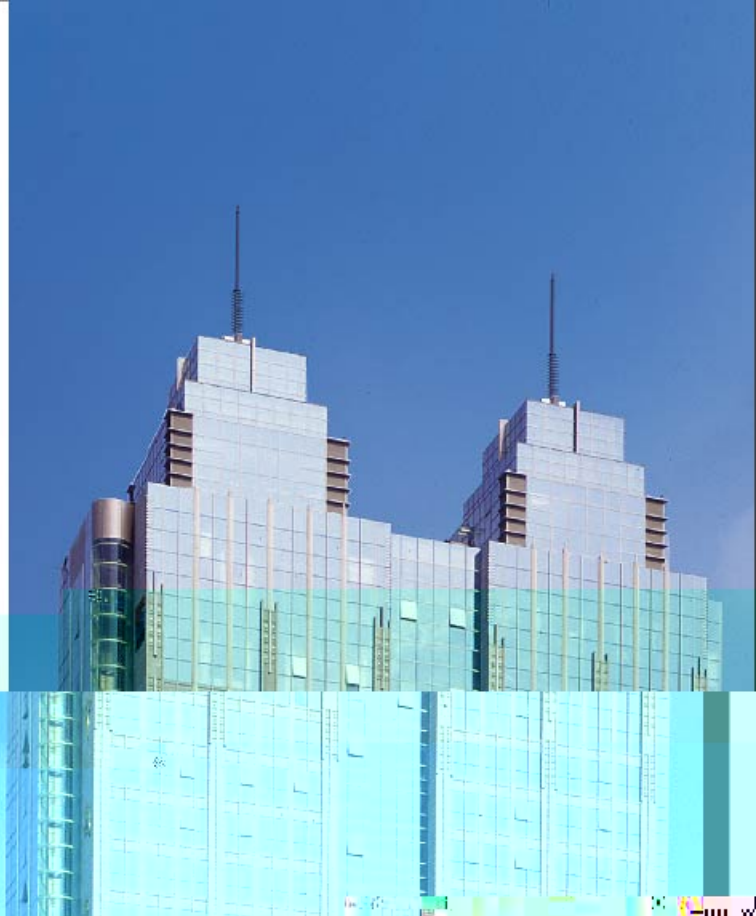
COMPANY PROFILE

China Jushi specializes in the production of glass fiber. The company has attained the leadership position in the global glass fiber industry in terms of Output, Technology, R&D, Quality and Market Share. Jushi Group is a Chinese national, key high technology enterprise, operating a distinguished Post-Doctoral program.

Jushi always adheres to its fundamental Management principles:

- "Apply science and technology for development.
- Build the brand name to expand market share.
- Emphasize management to improve efficiency and
- Employ talented people to enable future growth".

The company owns proprietary, world-class core technologies



GOALS

Enhance Product Performance


Expand Applications

Minimize Environmental Footprint

Increase Customer Satisfaction

With the rapid development of new applications, the design of fiberglass composite parts is becoming more and more demanding, requiring composite materials to deliver better performance, including increased strength, lighter weight, and enhanced corrosion resistance. Manufacturers and end users want products with long-term consistency and reliability.

To meet these demands, as well as  production and minimize environmental footprint, Jushi Group initiated the development of **E6[®] Enhanced Glass Fiber** in July 2006. The development was successfully completed in 2008 and was commercially available in 2009. Compared with traditional E-glass fiber, Jushi **E6[®] Enhanced Glass Fiber** improves composite properties and has less impact on the environment during manufacturing.

Jushi **E6[®] Enhanced Glass Fiber** is a new E-glass fiber, with enhanced properties. It combines all the benefits of E-glass fiber with technical breakthroughs in improved strength, elastic modulus, temperature  and corrosion resistance, thus meeting the requirements of the most demanding applications. **E6[®]** provides Jushi Group with a complete new technology platform, on which new solutions are developed for a wide range of applications for different end-use markets.

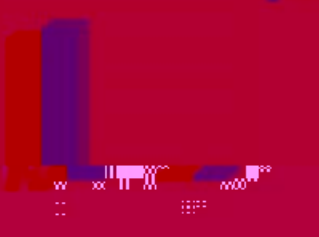
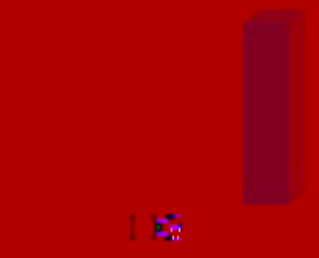
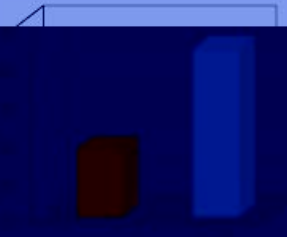
The logo for E6 Enhanced Glass Fiber, featuring the text "E6 Enhanced Glass Fiber" in a stylized, outlined font. The "E6" is significantly larger and more prominent than the rest of the text.

E6 Enhanced
Glass Fiber

REVOLUTIONARY NEW GLASS FIBER

Expands the Scope
of Composite Applications

Property Comparison between E-glass
and E6®Fibers



STRENGTH

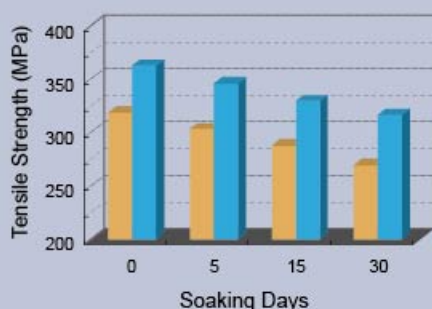
E6[®] REINFORCEMENTS

Open A New Era for Composites

Performance Comparison of Laminates Soaked in Acid Solution

■ E-glass
 ■ E6[®]

Comparison of longitudinal tensile strength of laminates soaked in 5% H₂SO₄

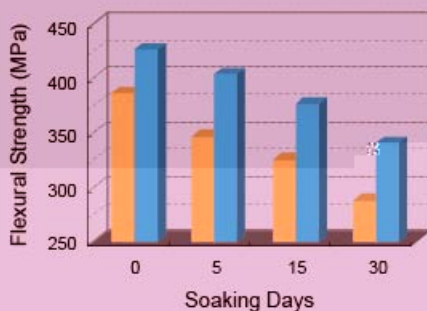


Superior mechanical properties

The use of E-glass reinforcements allows customers to design high performance composites beyond the limits of the polymer material itself. Jushi E6[®] glass fiber enables even higher composite performance. Compared with E-glass, composites based on E6[®] reinforcements have better mechanical properties including: tensile strength, elastic modulus, flexural strength, flexural modulus, shear strength and compressive strength. E6[®] Enhanced Glass Fiber has wide application fields in high performance composites, including: wind energy, high pressure vessels, geo-grids and sucker rods.

Test Sample	Property	Standard	E	E6 [®]
Tensile property of impregnated roving, Epoxy resin	Tensile strength (MPa)	ASTM D2343	1900~2000	2500~2700
	Tensile modulus (MPa)	ASTM D2343	73~75	81~83
1200 g/m ² UD fabric, (tested in 0° direction)	Tensile strength (MPa)	ISO 527-5	/	1120.6
	Tensile modulus (MPa)	ISO 527-5	/	42.6
Infusion process, Epoxy resin	Fiber Volume Content (%)	ISO 1172	/	53.6
	Tensile strength (MPa)	ISO 14126	/	805.5
	Tensile modulus (GPa)	ISO 14126	/	42.9
	Fiber Volume Content (%)	ISO 1172	/	54.3

Comparison of longitudinal flexural strength of laminates soaked in 5% H₂SO₄



ENVIRONMENTAL PROTECTION

Become a Model for Clean Production

Jushi Group is committed to improving our environmental footprint. We have invested heavily in the most modern technologies available to reduce pollutants in our air and water, and reduce waste.

E3[®] Enhanced Glass Fiber is made with a glass formulation which significantly reduces air pollutants during manufacturing. Improved oxygen firing technology reduces total waste gas emissions from the furnace by 30% and the nitrogen oxide emissions by over 50%. State-of-the-art glass recycling technology ensures zero discharge of hazardous waste. [Learn more about our environmental protection.](#)



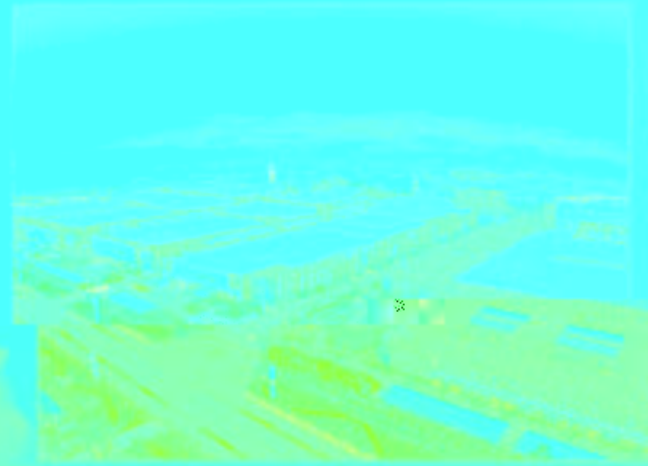
CUSTOMER AND TECHNICAL SUPPORT ORGANIZATION

Greater Best Technical Support

Jushi Group possesses world class core technologies and advanced testing and analysis capabilities for glass, organic chemistry, fiberglass and composites. We have established a global network of marketing and technical service professionals to help customers solve problems in materials development and process optimization. We collaborate closely with customers to address market challenges and

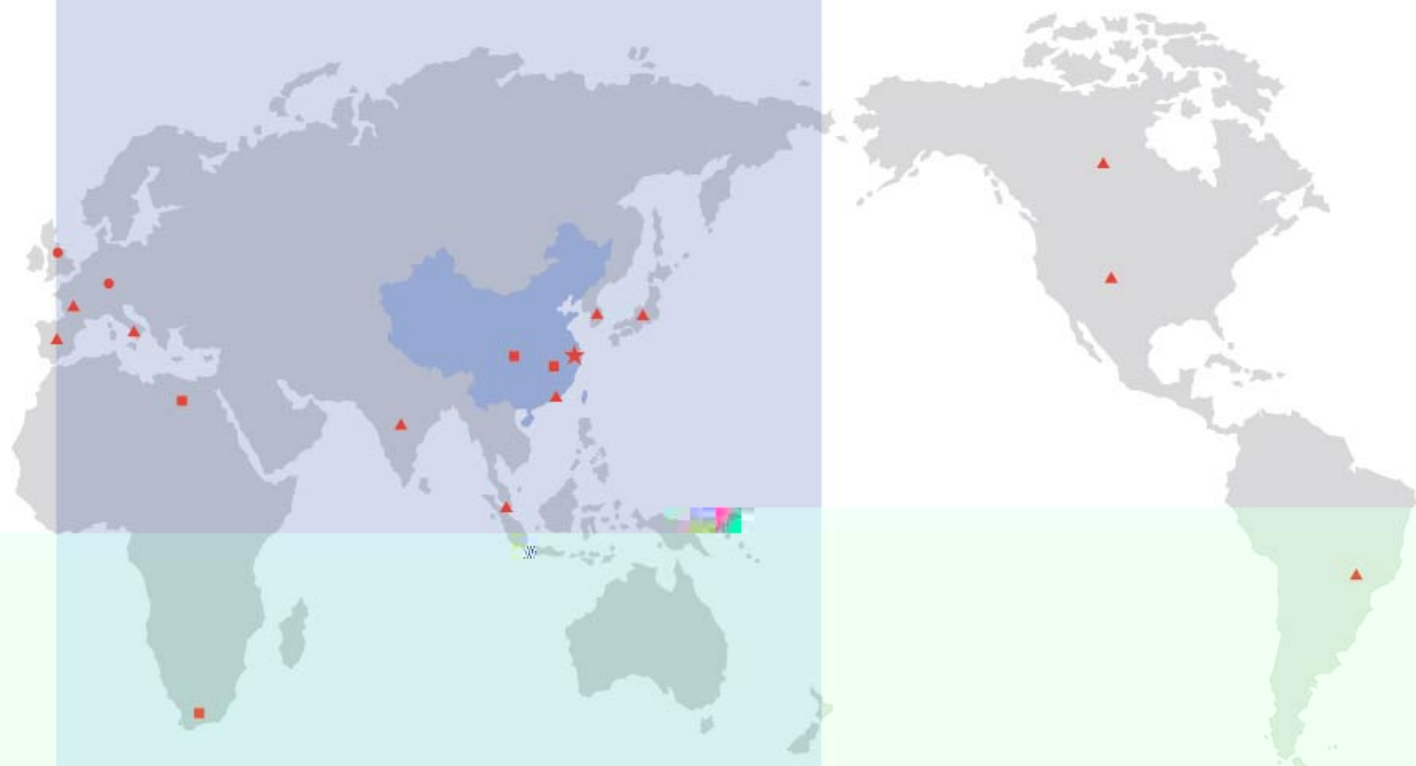
[promote the growth of the composite industry.](#)

We will share with you all the information on E3[®] glass fiber composite property as well as our considerable knowledge of composites and molding technology and processes.



Global Service
We have a global presence with 15 regional offices and 100+ sales and technical service representatives. We are committed to providing the highest quality customer service and technical support to our customers worldwide.

Technical Support
Our technical service team is composed of experienced professionals who provide comprehensive technical support to our customers, including material selection, process optimization, and problem solving.



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