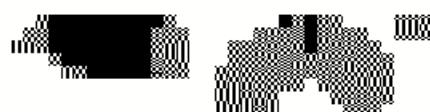


High Performance "E6® Enhanced Glass Fiber"

High Performance "E6® Enhanced Glass Fiber"



Enhanced

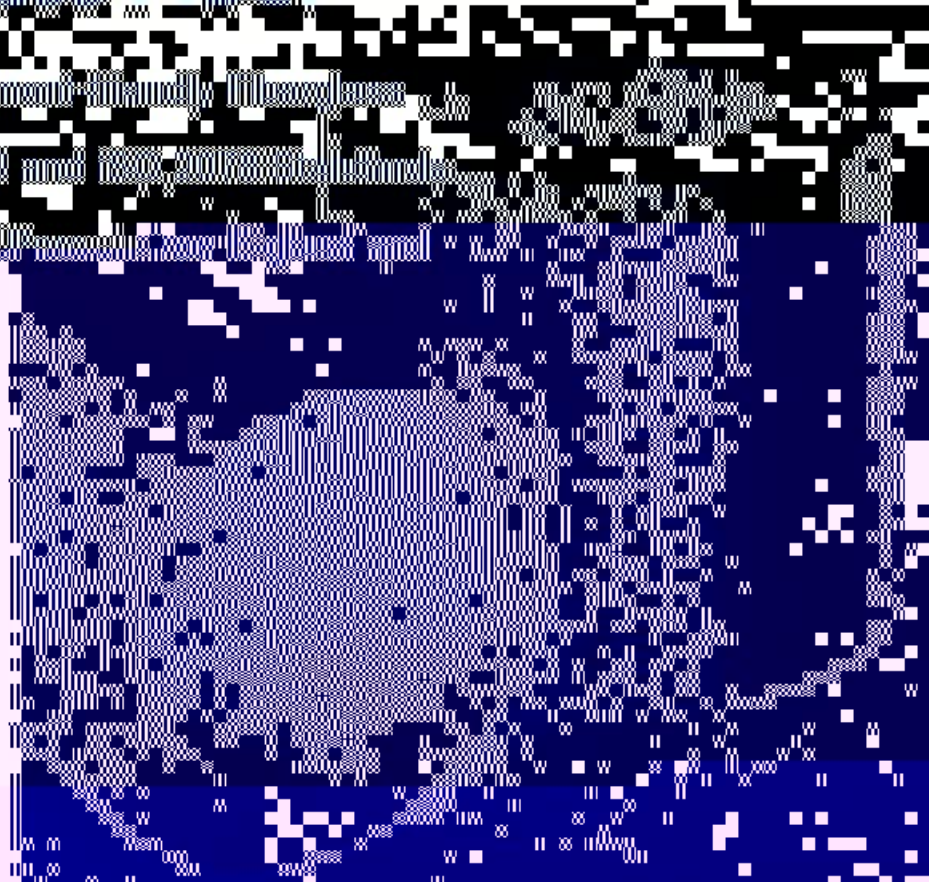
Common Glass Fiber

High Performance "E6® Enhanced Glass Fiber"

High Performance "E6® Enhanced Glass Fiber"

High Performance "E6® Enhanced Glass Fiber"

High Performance "E6® Enhanced Glass Fiber"



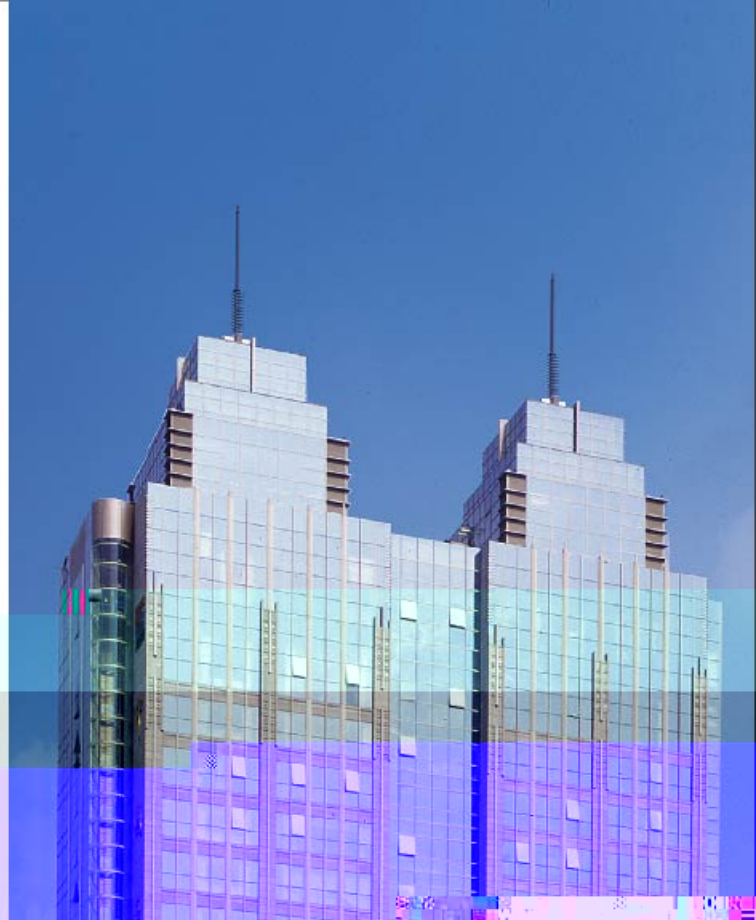
COMPANY PROFILE

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 the growing need for sustainable products, Jushi Group has developed a new generation of enhanced glass fiber. This new technology platform provides a complete new technology platform on which new solutions are developed for a wide range of applications for different end-use markets. The new generation of enhanced glass fiber is designed to meet 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 new generation of enhanced glass fiber is designed to meet 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 new generation of enhanced glass fiber is designed to meet 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.

E6 Enhanced
Glass Fiber

REVOLUTIONARY NEW GLASS FIBER

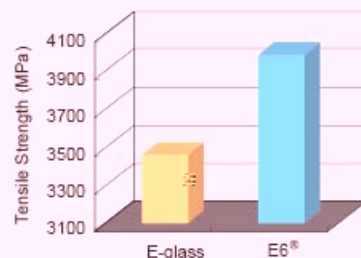
Expands the Scope of Composite Applications

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

- Higher tensile strength, up to 20% higher than E-glass fiber
- Higher softening temperature, about 60 °C higher than E-glass fiber
- Raw materials containing no boron and no fluorine, to ensure clean production

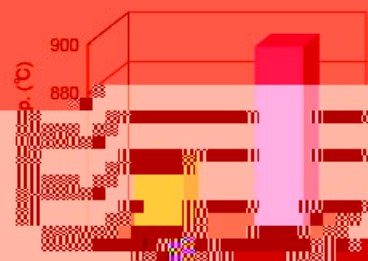
E6® is especially suitable for high pressure and high temperature applications. In addition, E6® maintains excellent electrical properties, such as dielectric constant and volume resistivity of E-glass.

Property Comparison between E-glass and E6® Fibers



Physical and Electrical Properties of E-glass and E6® Fibers

Property	E-glass	E6®	Unit
Tensile Strength	3500	3900	MPa
Softening Temperature	700	760	°C
Volume Resistivity	>10 ¹²	>10 ¹²	Ω·cm
Dielectric Constant	7.0	7.0	
Water Absorption	0.1	0.1	%
Acid Resistance	Good	Good	
Alkali Resistance	Good	Good	

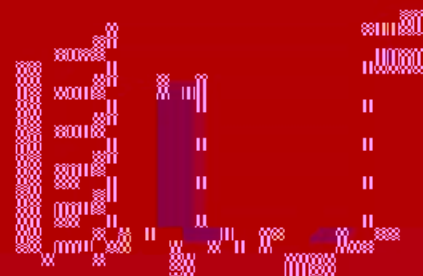


E6® is a new type of glass fiber with high tensile strength, high softening temperature, and excellent electrical properties. It is suitable for high pressure and high temperature applications. E6® maintains excellent electrical properties, such as dielectric constant and volume resistivity of E-glass.

Property	E-glass	E6®	Unit
Tensile Strength	3500	3900	MPa
Softening Temperature	700	760	°C
Volume Resistivity	>10 ¹²	>10 ¹²	Ω·cm
Dielectric Constant	7.0	7.0	
Water Absorption	0.1	0.1	%
Acid Resistance	Good	Good	
Alkali Resistance	Good	Good	



E6® is a new type of glass fiber with high tensile strength, high softening temperature, and excellent electrical properties. It is suitable for high pressure and high temperature applications. E6® maintains excellent electrical properties, such as dielectric constant and volume resistivity of E-glass.



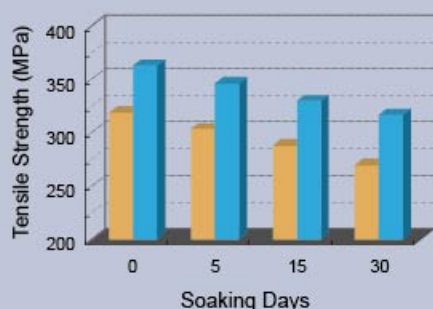
E6[®] REINFORCEMENTS

Open A New Era for Composites

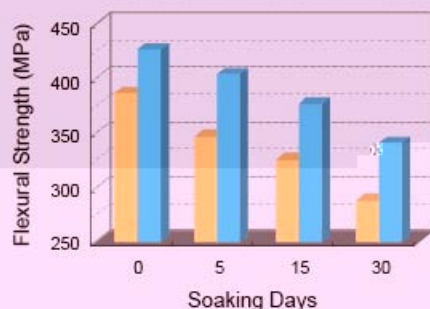
Performance Comparison of Laminates Soaked in Acid Solution

■ E-glass ■ E6[®]

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



Comparison of longitudinal flexural 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), Infusion process, Epoxy resin	Tensile strength (MPa)	ISO 527-5	/	1120.6
	Tensile modulus (MPa)	ISO 527-5	/	42.6
	Fiber Volume Content (%)	ISO 11172	/	53.6
	Tensile strength (MPa)	ISO 14126	/	805.5
	ensile modulus (GPa)	ISO 14126	/	42.9
	Fiber Volume Content (%)	ISO 1172	/	54.3



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.

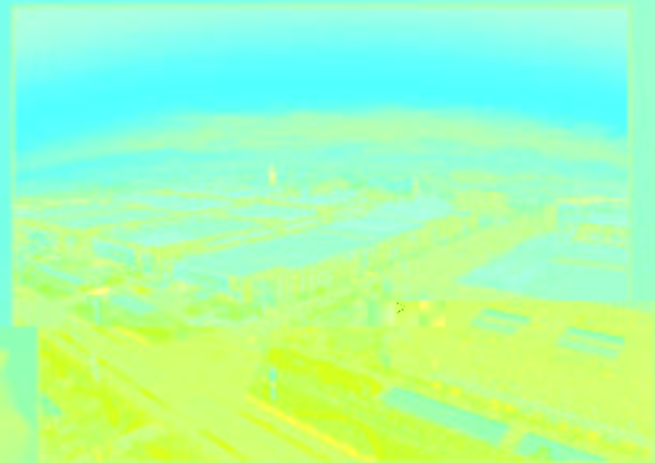
E6® Enhanced Glass Fiber, is made with a glass formulation which significantly reduces air pollutants during manufacturing. Improved oxygen firing technology reduces total waste gas emissions from the furnace by 80% and the nitrogen oxide emissions by over 90%. State of the art glass recycling technology ensures zero discharge of process waste. Glass to air and water purification technology ensures zero discharge of industrial waste water from our

CUSTOMER AND TECHNICAL SUPPORT ORGANIZATION

Offer 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 composites industry.

We will start with you at the introduction of E6® glass fiber reinforcements as well as our considerable knowledge of compounding and molding technology and processes.

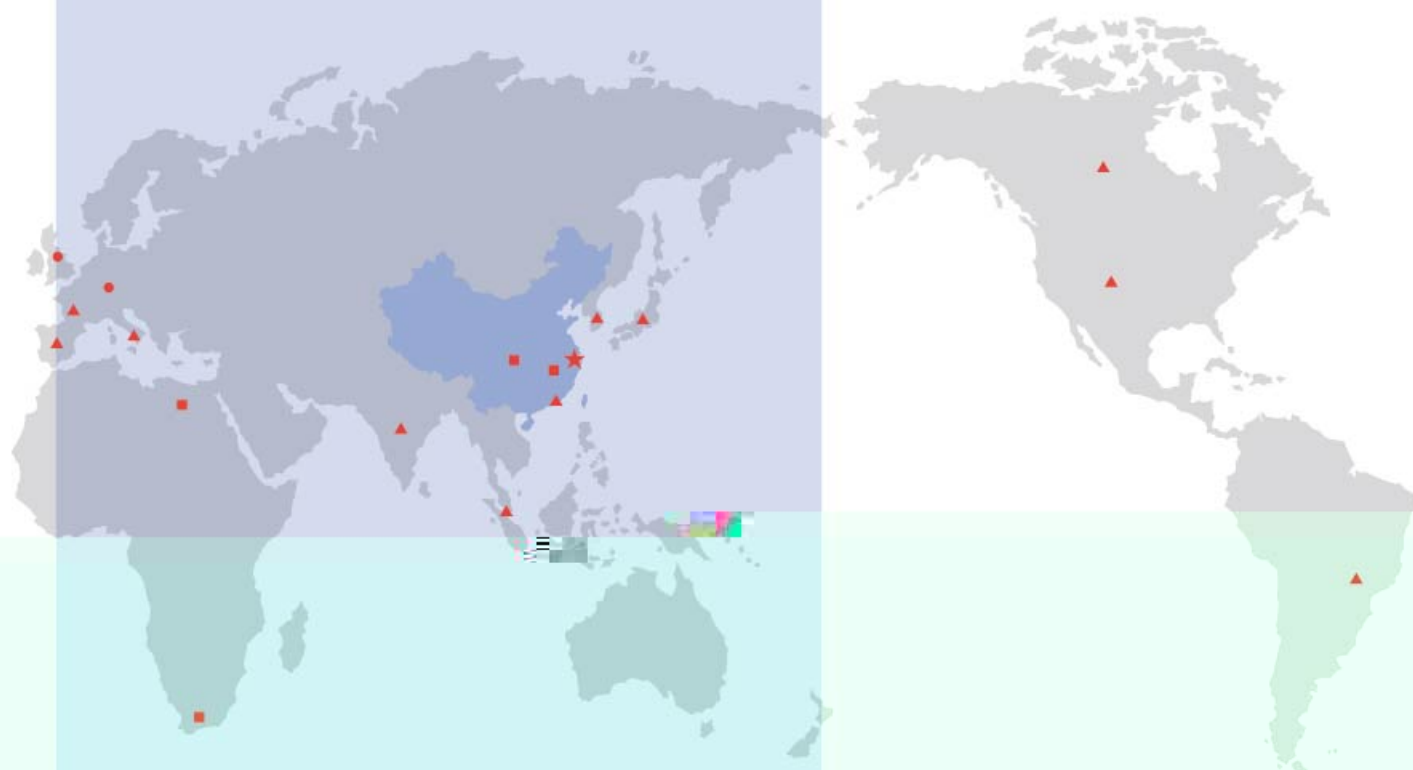


Our vision

to become a world leader

Our strategy

to become a world leader in the production and distribution of glass fiber and glass fiber reinforced plastics (GFRP) and to provide a comprehensive range of services to our customers. We will start with you at the introduction of E6® glass fiber reinforcements as well as our considerable knowledge of compounding and molding technology and processes.



中国巨石股份有限公司
CHINA JUSHI CO., LTD

Add: Tongxiang Economic Development Zone, Zhejiang 314500, China

International Sales: Tel: +86-573-88136318 Fax: +86-573-88181058

Domestic Sales: Tel: +86-573-88181016 Fax: +86-573-88136319

Customer Service: Tel: +86-573-88136325 Fax: +86-573-88136248

Http://www.jushi.com E-mail: info@jushi.com