



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

Enhanced
Glass Fiber

REVOLUTIONARY NEW GLASS FIBER

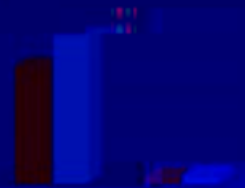
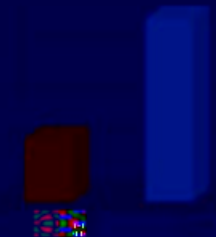
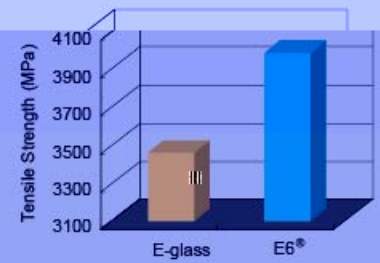
Expands the Scope
of Composite Applications

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

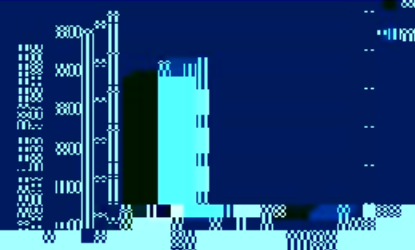
- Higher tensile strength, up to 20% higher than E-glass fiber
- Higher softening temperature, about 60°C higher than E-glass fiber
- Raw materials containing no boron and no fluorine, to ensure clean production

E6[®] is especially suitable for high pressure and high temperature applications. In addition, E6[®] maintains excellent electrical properties.

Property Comparison between E-glass and E6[®] Fibers





| Property | E-glass | E6 [®] |
|----------------------------|-----------------------------|--------------------------|
| Tensile Strength (MPa) | 3500 | 3950 |
| Softening Temperature (°C) | 600 | 660 |
| Raw Materials | Contains boron and fluorine | No boron and no fluorine |



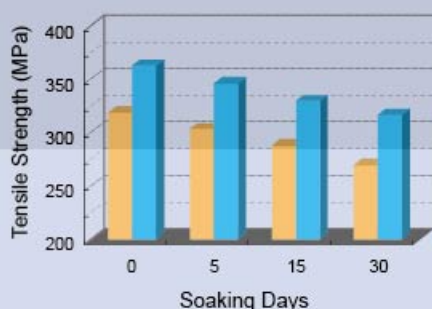
E6[®] REINFORCEMENTS

Open A New Era for Composites

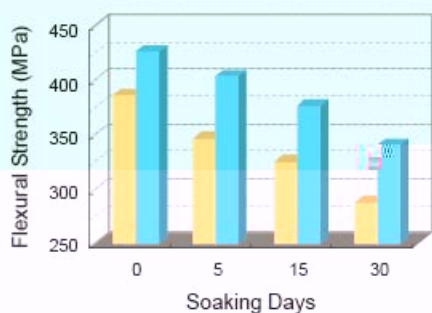
Performance Comparison of Laminates Soaked in Acid Solution

 E-glass  E6[®]

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



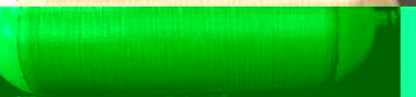
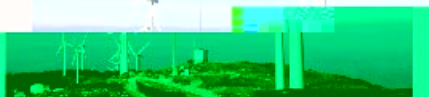
Comparison of longitudinal flexural strength of laminates soaked in 5% H₂SO₄



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 1172 | / | 53.6 |
| | Tensile strength (MPa) | ISO 14126 | / | 805.5 |
| | ensile modulus (GPa) | ISO 14126 | / | 42.9 |
| | Fiber Volume Content (%) | ISO 1172 | / | 54.3 ^{1/2} |





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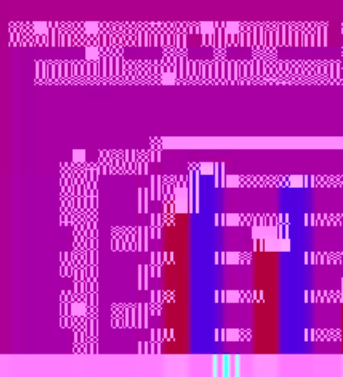
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ENVIRONMENTAL PROTECTION

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 oxides by 50%.

Recycle water from our

process

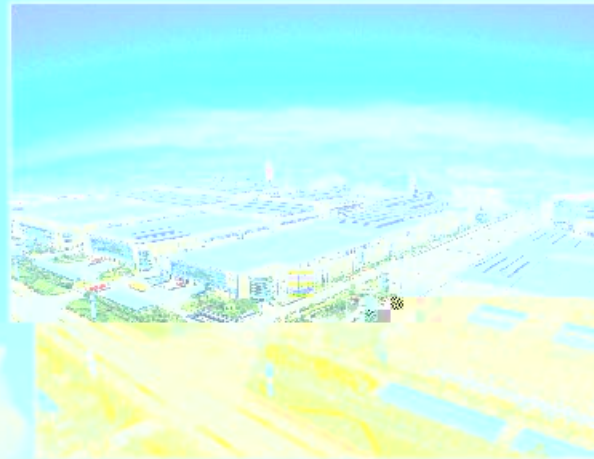
The Jushi development of **E6[®] Enhanced Glass Fiber** is consistent with our constant commitment to social responsibility and sustainability. Not only have we achieved the goal of improving our glass fiber products, but we also have improved our environmental footprint at the same time.

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 to solve problems in product development and process optimization. We collaborate closely with customers to address their technical challenges and promote the growth of the composites industry.

We will share with you all the information on **E6[®] glass fiber** reinforcements as well as our considerable knowledge of **compounding and molding technology and processes**.



Technical Support
Product Development
Quality Management
Production Management

Global Network of Marketing and Technical Service Professionals



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