

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



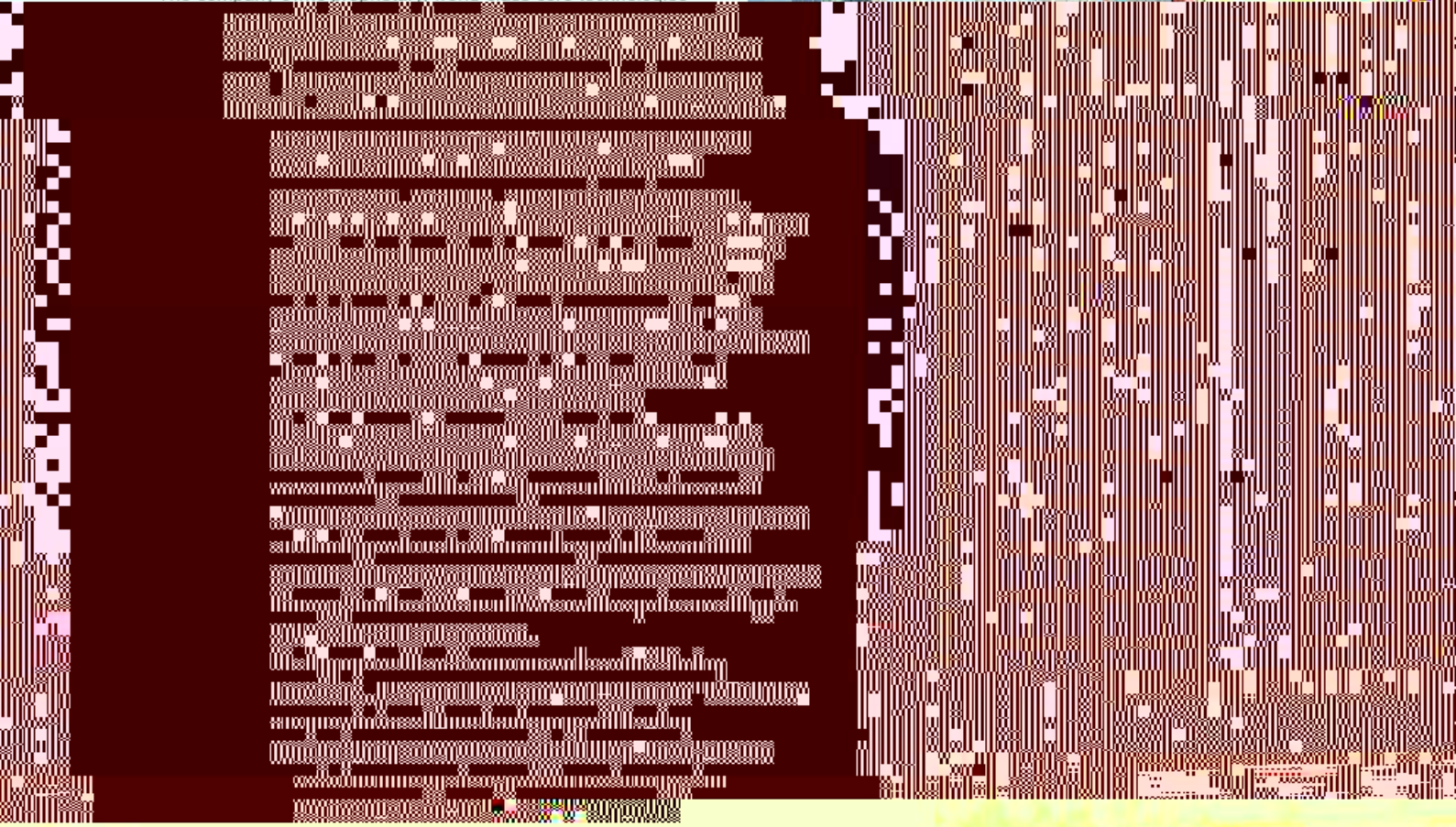
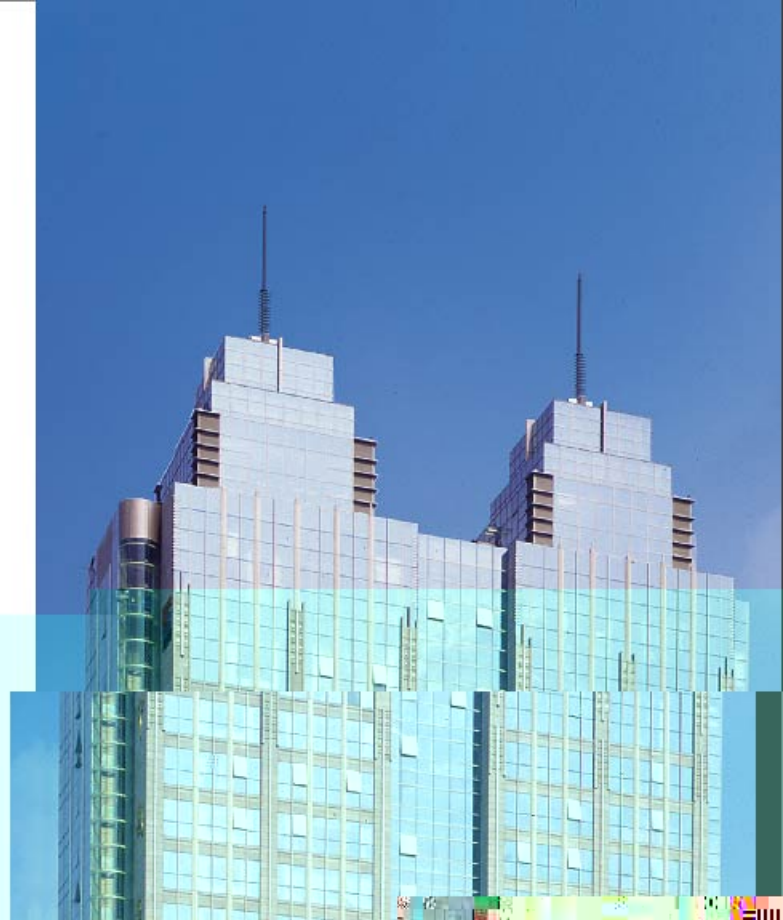
COMPANY PROFILE

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

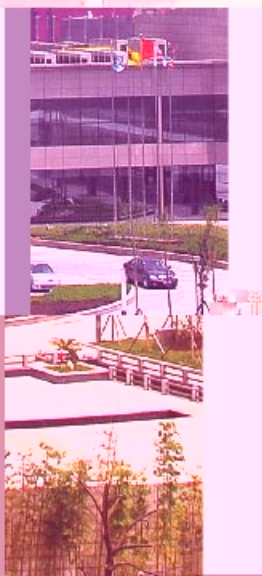
With the rapid development of new applications, the design of fiberglass composite parts is becoming more and more demanding, requiring composite materials to deliver better performance, including increased strength, lighter weight, and enhanced corrosion resistance. Manufacturers and end users want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

To meet these demands, as well as the growing demand for green products, Jushi Group expanded the development of E6 Enhanced Glass Fiber and E6. The development was successful and completed in 2022, and it has resulted in a more eco-friendly and enhanced E6 Enhanced Glass Fiber and E6 Enhanced Glass Fiber products that are more environmentally friendly and more reliable.

E6 Enhanced Glass Fiber is a new type of glass fiber with excellent properties, including high strength, high modulus, high temperature resistance, and acid 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.

E6 Enhanced
Glass Fiber



REVOLUTIONARY NEW GLASS FIBER

Expands the Scope
of Composite Applications

Property Comparison between E-glass
and E6® Fibers



Property	Units	E-glass	E6®	E6®	E6®	E6®
Tensile Modulus	10 ⁶ psi	10.5	10.5	10.5	10.5	10.5
Tensile Modulus	10 ¹¹ dynes/cm ²	7.2	7.2	7.2	7.2	7.2
Tensile Strength	10 ⁴ psi	45	45	45	45	45
Tensile Strength	10 ⁹ dynes/cm ²	3.1	3.1	3.1	3.1	3.1
Elongation at Break	%	2.5	2.5	2.5	2.5	2.5
Compressive Strength	10 ⁴ psi	45	45	45	45	45
Compressive Strength	10 ⁹ dynes/cm ²	3.1	3.1	3.1	3.1	3.1
Flexural Modulus	10 ⁶ psi	10.5	10.5	10.5	10.5	10.5
Flexural Modulus	10 ¹¹ dynes/cm ²	7.2	7.2	7.2	7.2	7.2
Flexural Strength	10 ⁴ psi	45	45	45	45	45
Flexural Strength	10 ⁹ dynes/cm ²	3.1	3.1	3.1	3.1	3.1
Impact Strength	ft-lb/in	1.5	1.5	1.5	1.5	1.5
Impact Strength	J/m	20	20	20	20	20



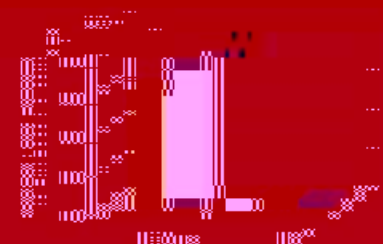
Working Stress Comparison
E-glass and E6® fibers showing
45 condition is 45% with 100% strength
on 100%

When the modulus of a material is 10.5 x 10⁶ psi, the modulus of a material is 10.5 x 10¹¹ dynes/cm². The modulus of a material is 10.5 x 10⁶ psi, the modulus of a material is 10.5 x 10¹¹ dynes/cm².

E6® fibers are a new type of glass fiber with a tensile strength of 45 x 10⁴ psi and a tensile modulus of 10.5 x 10⁶ psi. E6® fibers are a new type of glass fiber with a tensile strength of 45 x 10⁴ psi and a tensile modulus of 10.5 x 10⁶ psi.

Company	Product Name	Modulus	Strength	Impact
Weybridge	Bostington 105400000	10.5	45	1.5
Lockwood	Weybridge 105400000	10.5	45	1.5
	Bostington 105400000	10.5	45	1.5

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E6[®] REINFORCEMENTS

Open A New Era for Composites

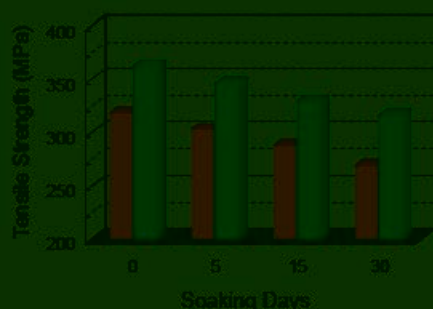
Performance Comparison of Laminates Soaked in Acid Solution

 E-glass  E6[®]

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.

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



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° dire	Tensile strength (MPa)	ISO 527-5	/	1120.6
	Tensile modulus (MPa)	ISO 527-5	/	42.6



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 fiber. Modern waste 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 all the information on E6® glass fiber reinforcements as well as our considerable knowledge of compounding and molding technology and processes.



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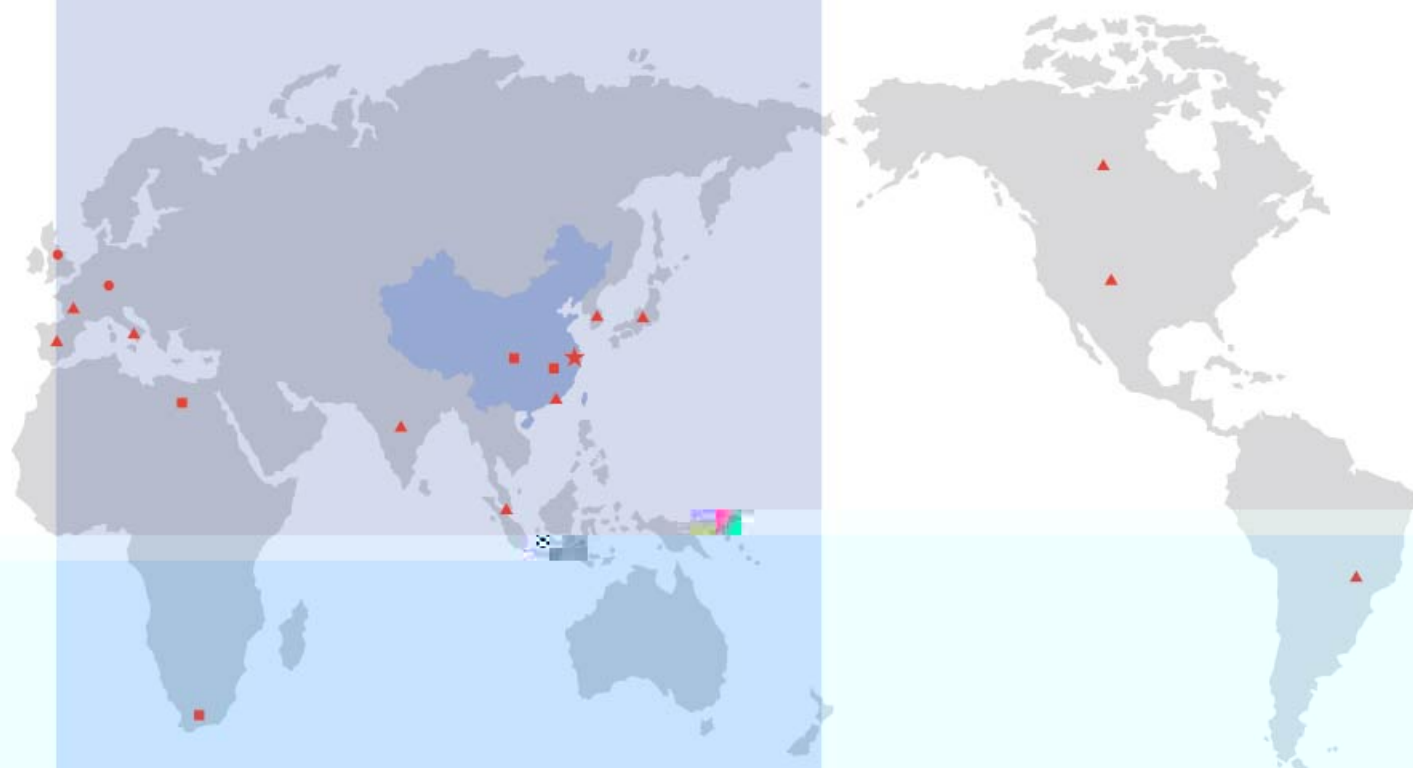
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