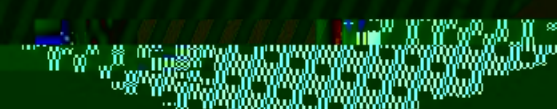


E8

HIGH MODULUS

Glass Fiber Reinforced



- 2,000,000 Newtonton/mm² Tensile Strength
- 100% Recyclable
- 100% Compliant with ISO 14001 Environmental Management System
- 100% Compliant with ISO 9001 Quality Management System

China Jushi Co.Ltd
specializes in the production of
glass fiber. The company has attained
the leadership position in the global glass
fiber industry in terms of Capacity, Technology,
R&D, Quality and Marketing.

Jushi people adhere to our core values of "Behavior,
Innovation, Responsibility, Learning, Enthusiasm" to
build the company into an international corporation with
the largest scale, leading technology, excellent team,
lean management, powerful execution, outstanding
operating results and high quality growth. China Jushi
strives to lead the modernization of China's glass
fiber industry and maintain the leadership
position in the global glass fiber industry
through endless pursuit of innovation
and excellence.

COMPANY PROFILE



GOALS

CREATION OF A NEW SOLUTION FOR HIGH-END COMPOSITES

China Jushi has developed E8 High Modulus Glass Fiber in 2016, achieving a revolutionary

breakthrough in the glass fiber industry, with strong fiber, ultra-high modulus and better fatigue resistance.

Compared with ordinary glass fiber, E8 High Modulus Glass Fiber has a tensile strength of 4,000 MPa, which is 1.5 times that of ordinary glass fiber.

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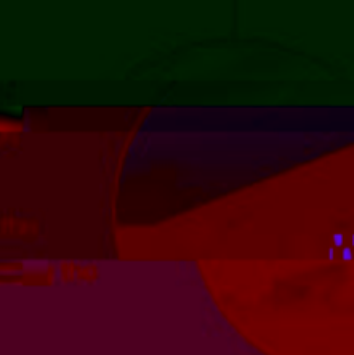
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■ JUSHI E8 High Modulus Glass Fiber

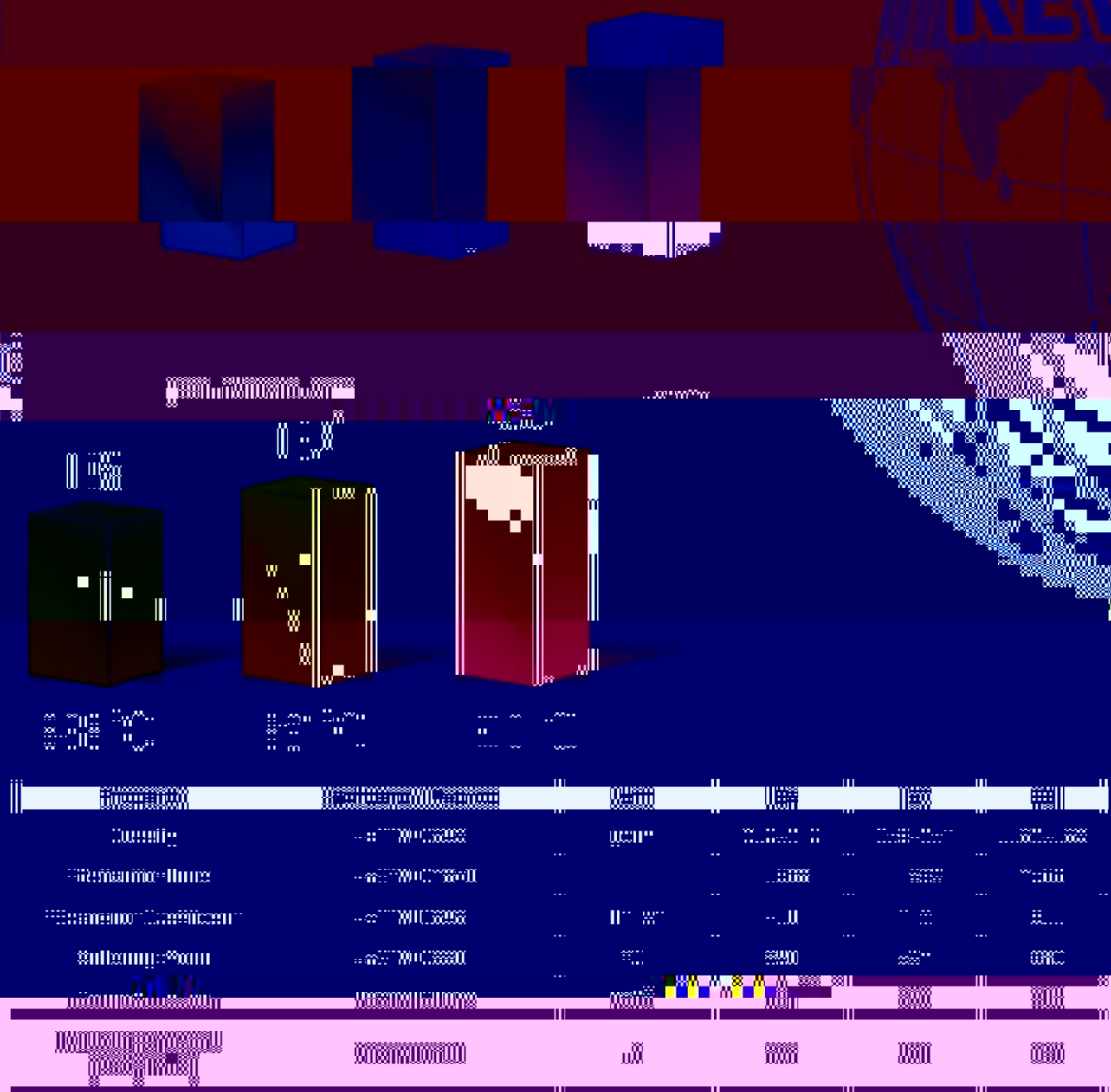
Compared with ordinary glass fiber, E8 High Modulus Glass Fiber has a tensile strength of 4,000 MPa, which is 1.5 times that of ordinary glass fiber. It also has a higher modulus and better fatigue resistance, which will reduce the cost of power generation and prolong the service life of wind blades.

Compared with E6 and E7 glass, E8 offers the following unique benefits:

1. The use of boron-free and machine-free raw materials enables clean production.

E8 is therefore more suitable for wind energy, high pressure and high temperature applications. In addition, E8 retains the excellent electrical properties of E6 glass fiber.

ELASTIC MODULUS COMPARISON

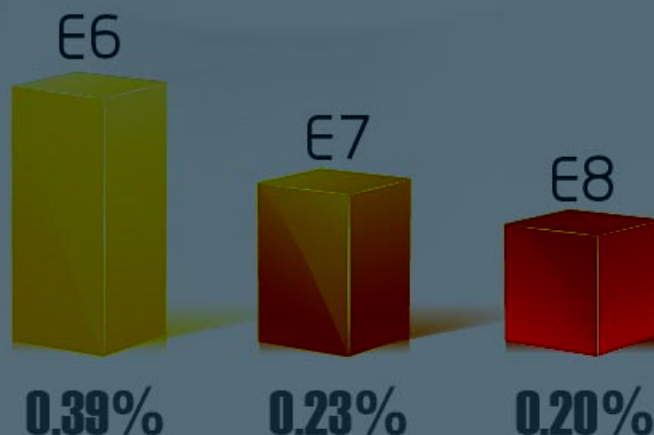




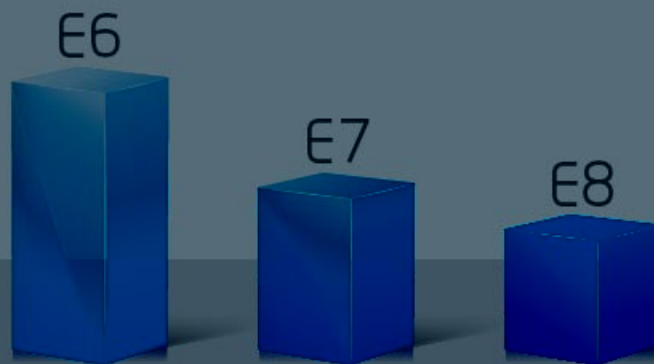
E8 glass fiber is made from a unique glass composition which improves the corrosion resistance in a variety of circumstances. Compared with E6 and E7 glass fiber, E8 shows significant improvement in chemical corrosion resistance in neutral, acidic or alkaline solutions with especially superior corrosion resistance in acidic environments. E8 is therefore particularly suitable for applications which have special requirements on environment protection, emissions control, chemical environment and desalination.

ATIONARY ASS UTION FOR OMPOSITES

COMPARISON IN WEIGHT LOSS IN BOILING WATER
AT 100°C FOR 24 HOURS



COMPARISON IN WEIGHT LOSS IN 10% H₂SO₄
SOLUTION AT 96°C FOR 24 HOURS



Item	Testing Method	Unit	E6	E7	E8
Weight loss in acidic solution	Soaking in 10% HCl solution at 23°C for 24 hours	%	0.43	0.22	0.20
Weight loss in alkaline solution	Soaking in 0.5M NaOH solution at 23°C for 24 hours	%	0.43	0.22	0.20
Weight loss in boiling water	Boiling in water at 100°C for 24 hours	%	0.39	0.23	0.20

Note: The above tested products have a uniform filament diameter.

EXCELLENT MECHANICAL PROPERTIES

E8 is a high-performance glass fiber with higher modulus and higher strength. E8 glass fiber will offer more superior mechanical properties, dimensional stability and fatigue resistance, and can meet higher design requirements of composite materials to be used more demanding environments. E8 glass fiber can be widely used in the fields of large wind blades, military equipment, high pressure vessels and aerospace.

Test Sample	Property	Standard	E6	E7	E8
Tensile property of impregnated roving, Epoxy resin	Tensile strength (MPa)	ASTM D2343	2500-2700	2800-3000	3100-3500
	Tensile modulus (GPa)	ASTM D2343	81-83	89-91	95-98
1250 g/m ² UD fabric, (tested in 0° direction), Infusion process, Epoxy resin	Tensile strength (MPa)	ISO 527-5	/	1321.7	1332.3
	Tensile modulus (GPa)	ISO 527-5	/	48.5	51.6
	Fiber volume content (%)	ISO 1172	/	53.6	53.8
	Compressive strength (MPa)	ISO 14126	/	972.8	1043.9
	Compressive modulus (GPa)	ISO 14126	/	49.1	52.1
	Fiber volume content (%)	ISO 1172	/	54.4	54.2



CERTIFICATIONS

CHINA JUSHI ALWAYS ADHERES TO ITS
FUNDAMENTAL MANAGEMENT PRINCIPLES:

- o Apply science and technology for development,
- o Build the brand name to expand market share,
- o Emphasize management to improve efficiency and

China Jushi Group's proprietary technology for E-glass fiber furnaces, E-glass fiber and E-glass fiber products has been recognized as "China Top Brand" products and the trademark "JUSHI" has been recognized as "China Famous Trademark".

China Jushi Group has achieved management system certifications to ISO9001, ISO14001, OHSAS18001, ISO10012 and ISO17025. Its testing center has been certified by both China National Accreditation Board for Laboratories (CNAS) and Germanischer Lloyd (GL). The fiberglass rovings and chopped strand mats under the "Jushi" brand have been listed as "China Top Brand" products and the trademark "JUSHI" has been recognized as "China Famous Trademark". The principal products of Jushi Group have been approved by DET NORSKE VERITAS (DNV), Lloyd's Register (LR), China

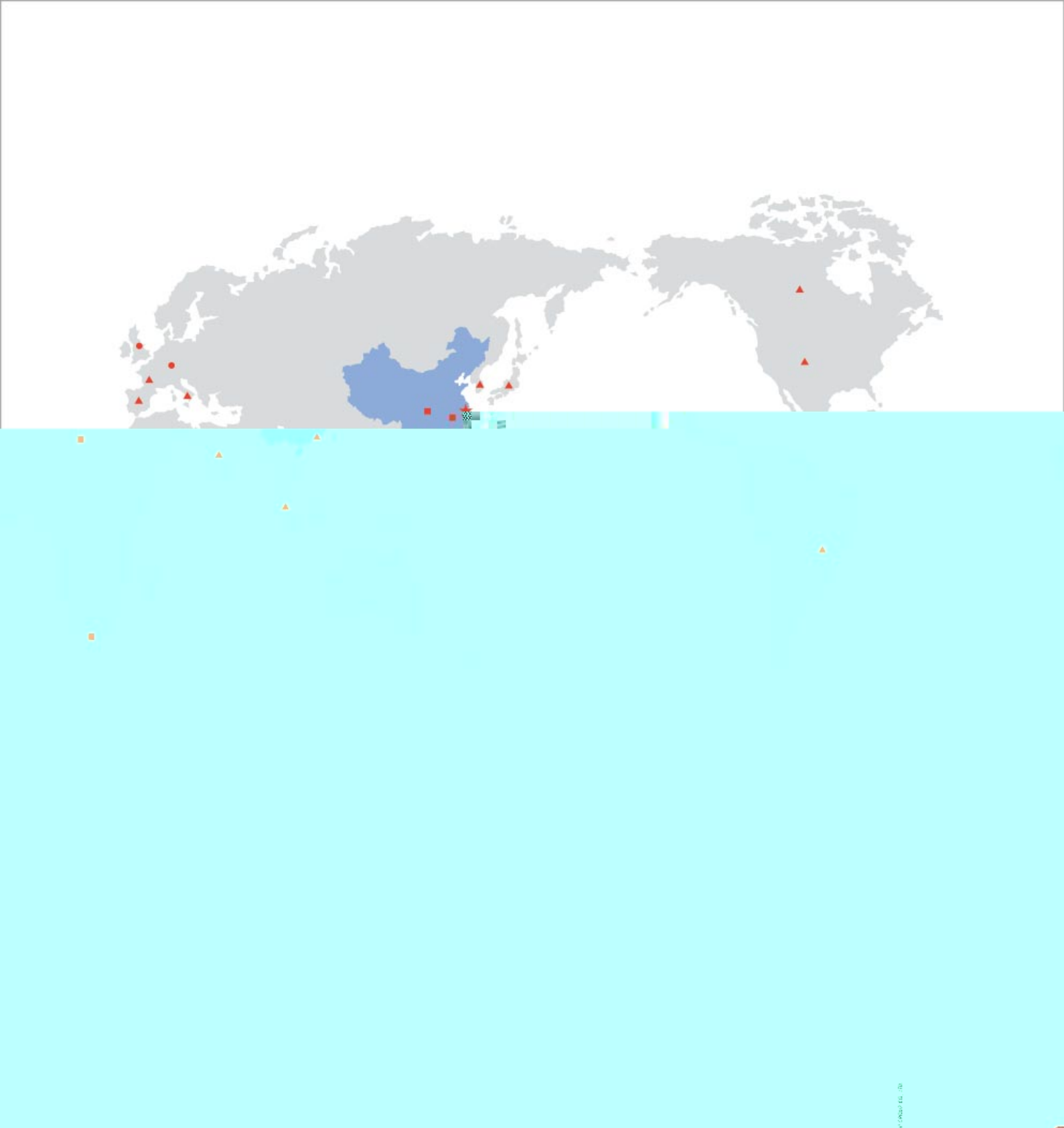
TECHNICAL COLLABORATION AND SUPPORT

China Jushi Group's optimization, Jushi collaborates closely with customers to address market challenges and promote the growth of the composites industry. China Jushi will share our information on E-glass fiber and our knowledge of compounding technologies and processes.

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*All the data given in this brochure is preliminary and China Jushi reserves the right to update or modify the data without notice.



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