



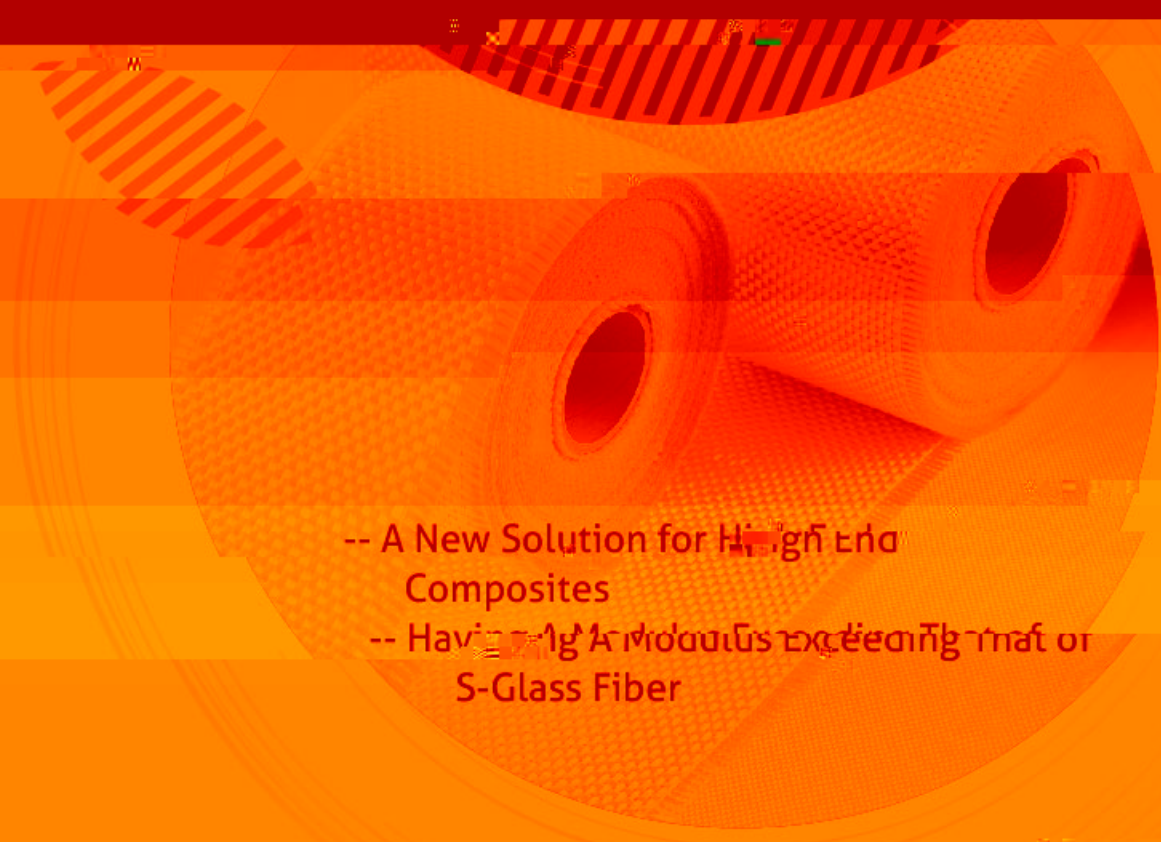
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E0

HIGH
MODULUS
Glass Fiber



- A New Solution for High End Composites
- Having 1g Modulus exceeding that of S-Glass Fiber

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.

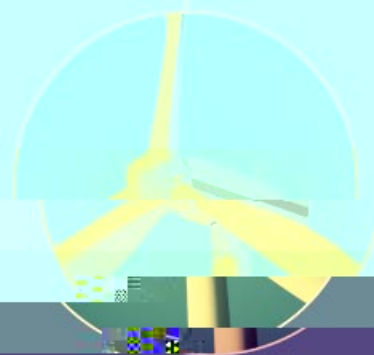
Jushi people adhere to our core values of "Behavior, Innovation, Responsibility, Learning, Enthusiasm" to build the company into an international corporation with the largest scale, leading technology, excellent team, lean management, powerful execution, outstanding operating results and high quality 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

Jushi has successfully developed E8 high performance Glass Fiber in 2016, achieving a revolutionary breakthrough in the glass fiber industry. E8 glass fiber offers higher modulus and better fatigue resistance than E7 high performance glass fiber and S-glass fiber, and now can be manufactured with tank furnaces in a stable and efficient way. E8 has much better cost performance than S-glass fiber, making it more competitive than the latter. E8 is designed mainly for use in the wind blades and will create tremendous value for the wind energy market. It will be able to further promote the innovation and application of large-scale wind



blades. E8 glass fiber will be widely used in the wind energy market. It will be able to further promote the innovation and application of large-scale wind

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

The use of boron oxides and recycled 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



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 resistance, chemical and corrosion and desalination.

COMPARISON IN WEIGHT LOSS IN BOILING WATER



Weight loss in alkaline solution	Soaking in 0.5M NaOH solution at 23°C for 24 hours	%	0.24	0.14
	Soaking in 0.5M NaOH solution at 23°C for 24 hours	%	0.43	0.22
Weight loss in boiling water	Boiling in water at 100°C for 24 hours	%	0.39	0.23

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 engineering applications. 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	85-91	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	/	97.8	100.9
	Compressive modulus (GPa)	ISO 14126	/	48.1	52.1
Fiber volume content (%)	ISO 1172	/	53.3	54.9	



CERTIFICATIONS

CHINA JUSHI ALWAYS ADHERES TO ITS FUNDAMENTAL MANAGEMENT PRINCIPLES:

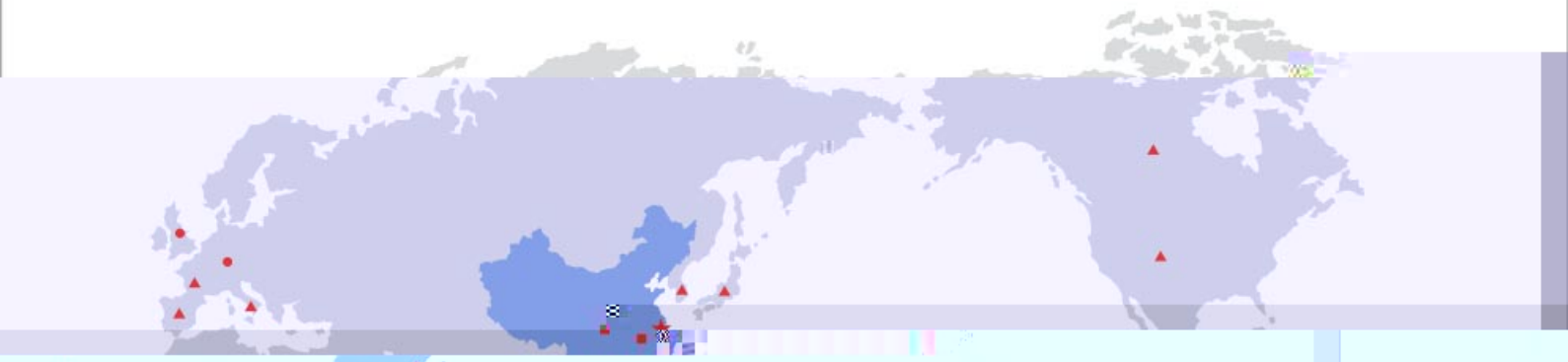
- o Apply science and technology development.
- o Build the brand name to expand market share.
- o Emphasize management to improve efficiency, and
- o Employ talented people to enable future growth.

China Jushi owns proprietary, world-class core technologies for large E-glass fiber furnaces, C-glass fiber furnaces and high-performance glass fiber.

TECHNICAL COLLABORATION AND SUPPORT



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