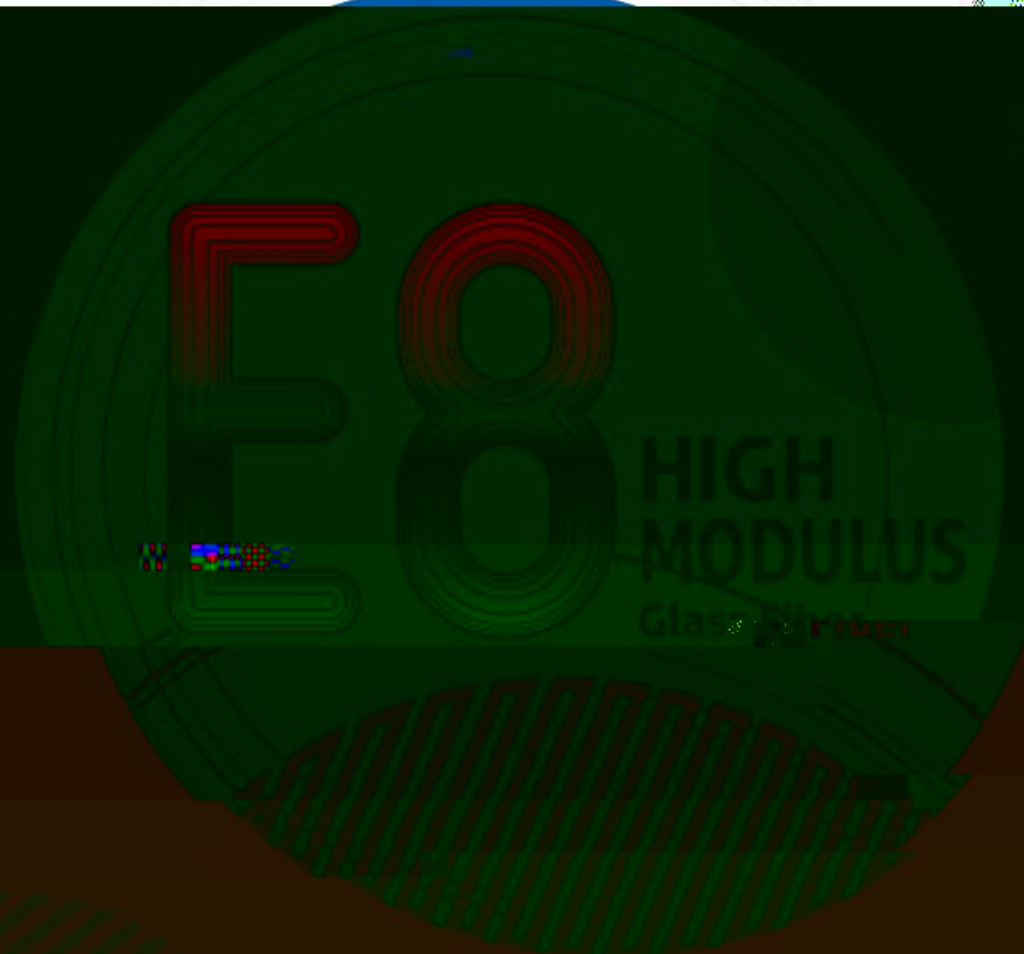


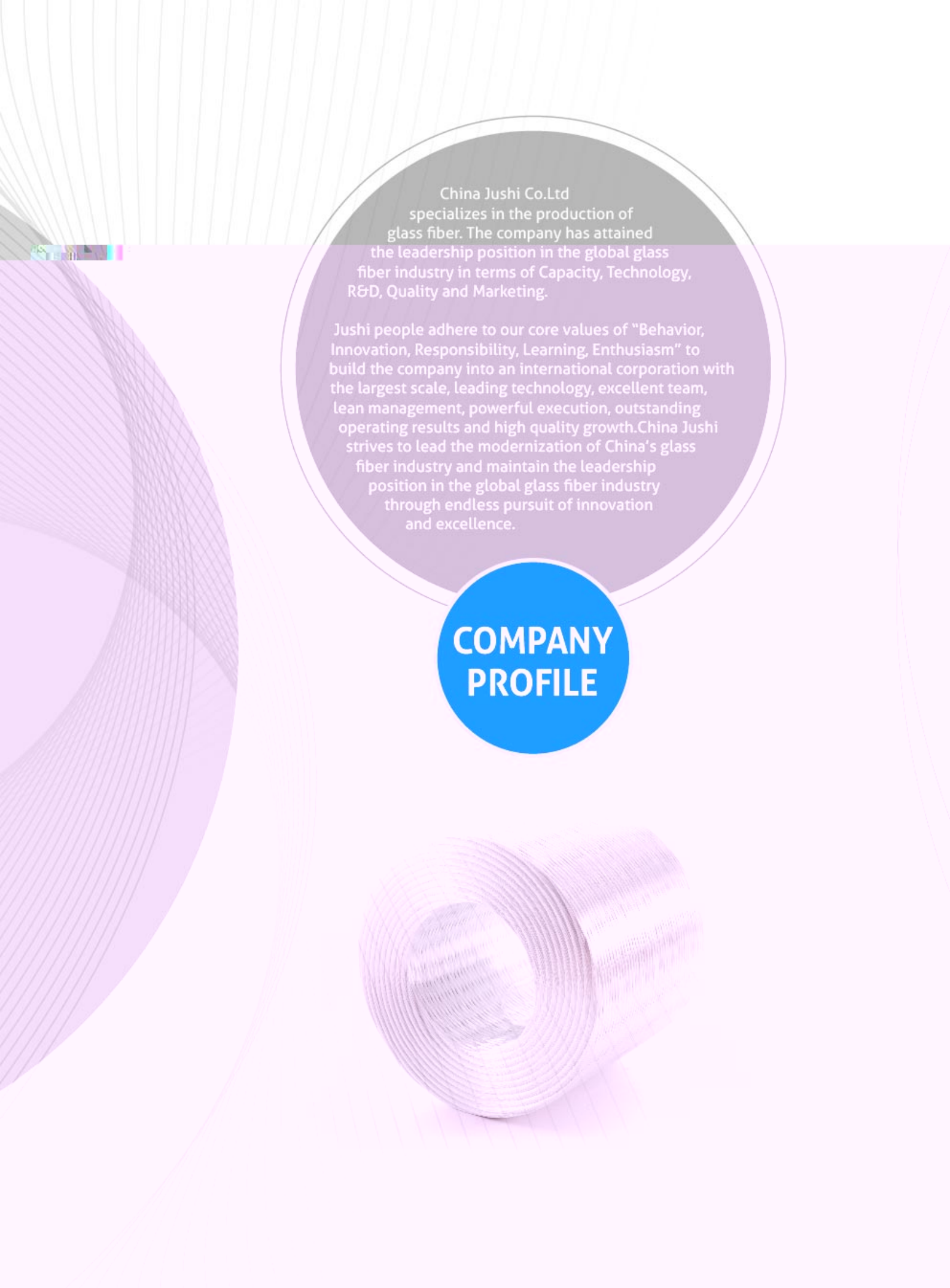


- A New Solution for High End Composites
- Having A Modulus Exceeding That of S-Glass Fiber



江蘇恒勝玻璃纖維有限公司
JIANGSU HENGSHENG GLASS FIBER CO., LTD.

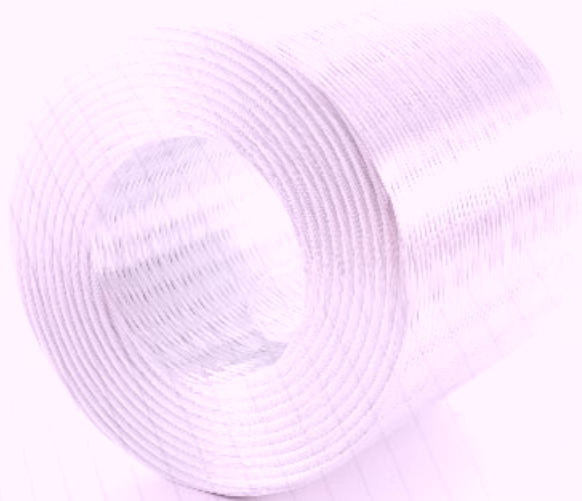
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China Jushi Co.Ltd
specializes in the production of
glass fiber. The company has attained
the leadership position in the global glass
fiber industry in terms of Capacity, Technology,
R&D, Quality and Marketing.

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



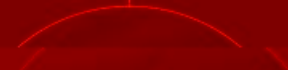


GOALS

CREATION OF A NEW SOLUTION FOR HIGH-END COMPOSITES

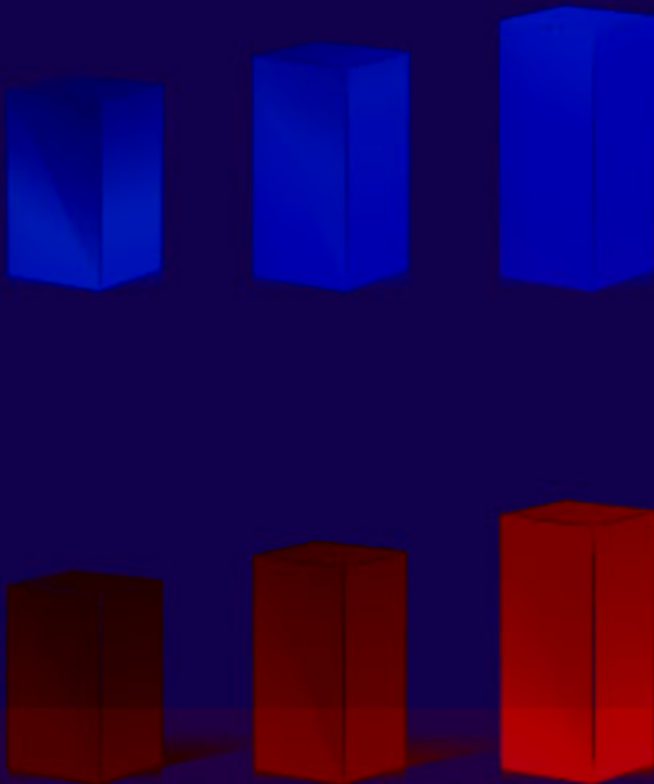
China Jushi has developed E8 High Modulus Glass Fiber in 2016, achieving a revolutionary

breakthrough in the glass fiber industry. 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 later. 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-size wind blades. E8 will enable the wind blades of the same design to have higher modulus, less deformation under the same wind load and reduced blade weight. In the meantime, wind



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

- Higher modulus, 17% higher than E6 glass, 7% higher than E7 glass;



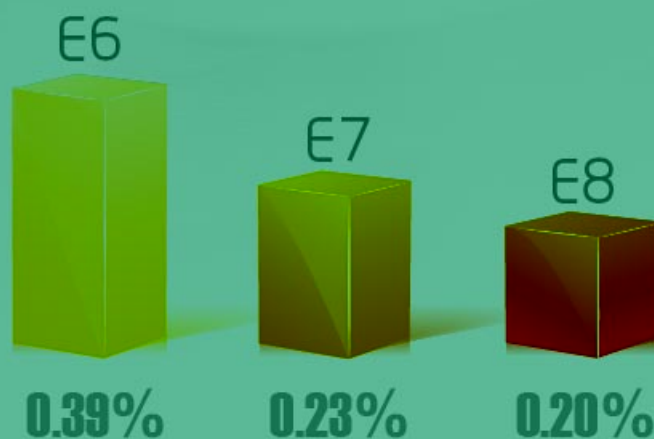
REVOLUTIONARY
GLASS

A NEW
HIGH-EN

NEW

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, corrosion resistance, chemical resistance and desalination.

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

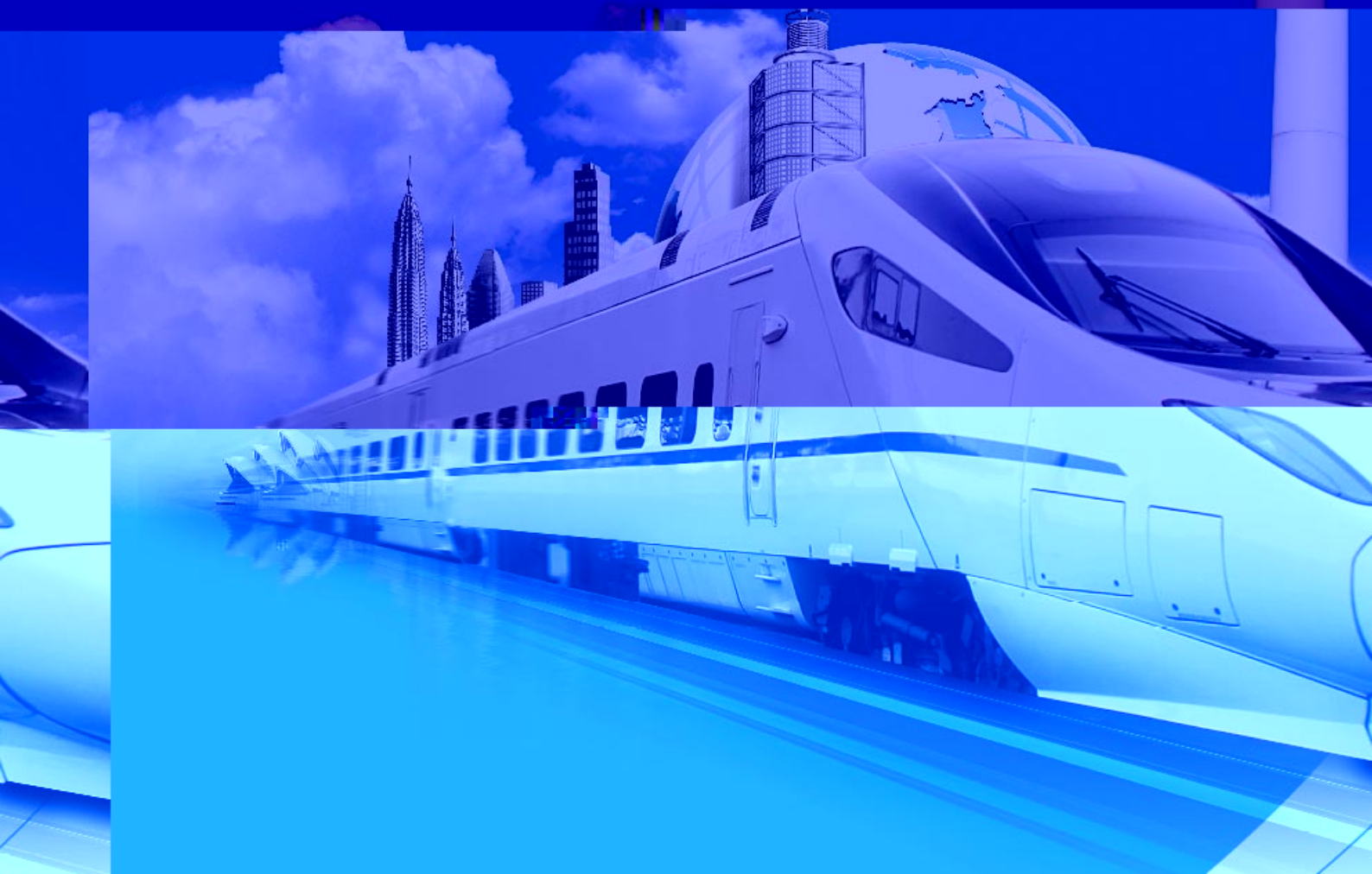


Item	Testing Method	Unit	E6	E7	E8
Weight loss in acidic solution	Soaking in 10% HCl solution at 23°C for 24 hours	%	0.03	0.07	0.06
Weight loss in alkaline solution	Soaking in 0.025M Na ₂ CO ₃ at 23°C for 24 hours	%	0.24	0.14	0.12

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:



China Jushi has received the approval of a series of international standards, including ISO 9001, ISO 14001, ISO 45001, ISO 10012 and ISO 17025. Moreover, China Jushi has been certified as a China Famous Trademark and Evaluation First-Tier Enterprise by the China Federation of Industrial Economic Promotion (CFIEP) and the China Federation of Industrial Property Protection (CFIPP). The trademarks "Jushi" and "JUSHI" have been registered in more than 100 countries. The "Jushi" brand have been given 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 Classification Society (CCS), Germanischer Lloyd (GL) and Attestation De Conformité Sanitaire (ACS).

TECHNICAL COLLABORATION AND SUPPORT

China Jushi possesses world-class core technologies and advanced testing and analysis capabilities for glass, organic chemistry, fiberglass and composites. Jushi has established a global network of marketing and technical service professionals to help customers solve problems in materials development and engineering.

China Jushi is committed to providing customers with comprehensive technical support and service, and ensuring the quality of the products and services.

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Website:
<http://www.chinajushi.com>

Global office network

China Jushi Group has established a global office network, covering more than 100 countries and regions. China Jushi Group has established a global office network, covering more than 100 countries and regions. China Jushi Group has established a global office network, covering more than 100 countries and regions.





中国巨石股份有限公司 **CHINA JUSHI CO., LTD**

Longxiang Economic Development Zone, Zhengfang 314500, China
 General Sales: Tel: +86 573 88136112 Fax: +86 573 88161032
 Domestic Sales: Tel: +86 573 88181013 Fax: +86 573 88136310
 After-Sales Service: Tel: +86 573 88136125 Fax: +86 573 88136124

中国巨石股份有限公司 2014年年度报告

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