
E8
HIGH
MODULUS
Glass Fiber
-- A New Solution for High End Composites
-- Having A Modulus Exceeding That of S-Glass Fiber
CHINA JUSHI CO., LTD

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.

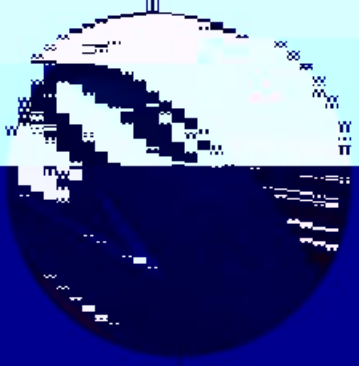
Jushi people adhere to our core values of "Behavior, Innovation, Responsibility, Learning, Enthusiasm" to build the company into an international corporation with the largest scale, leading technology, excellent team, lean management, powerful execution, outstanding operating results and high quality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

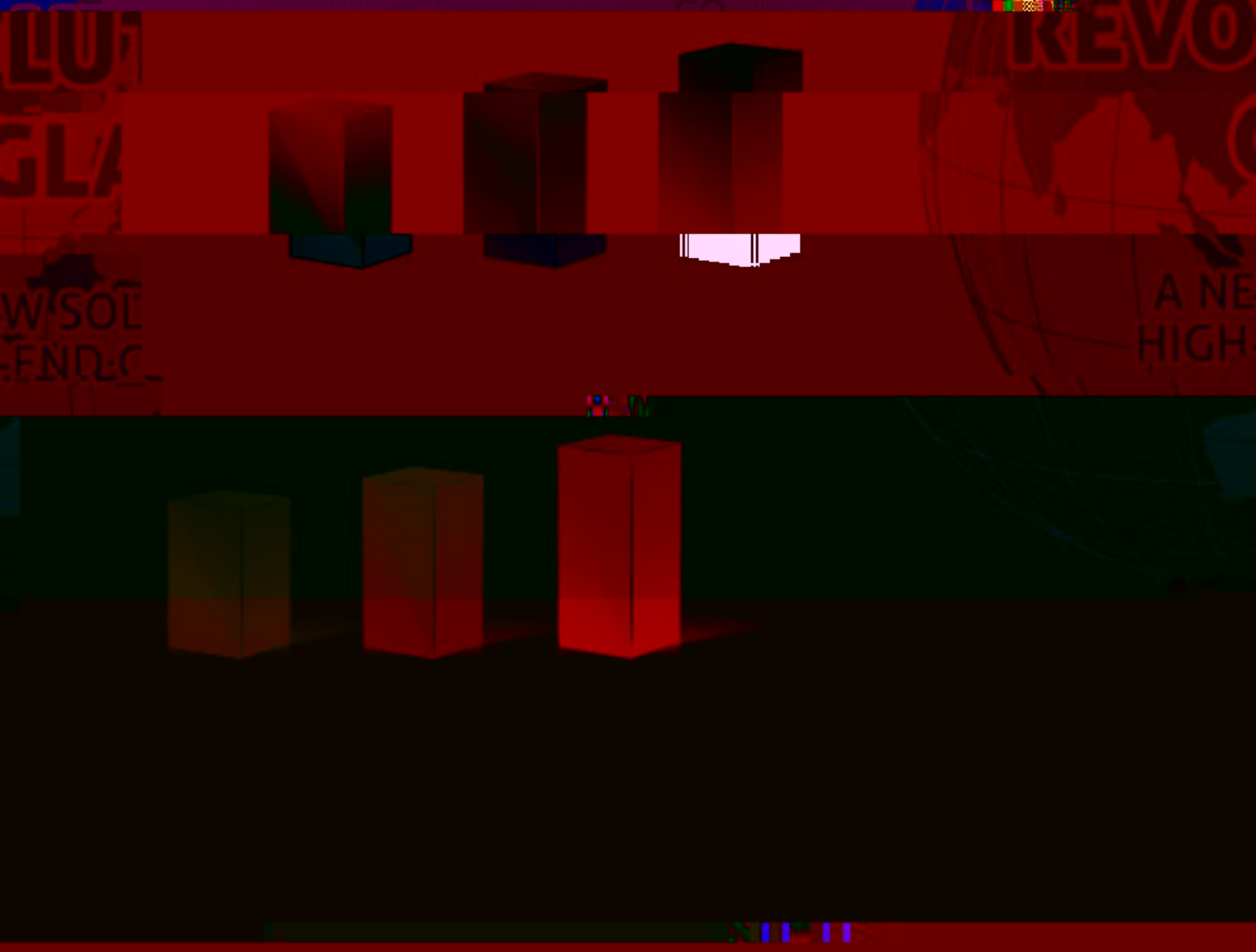


Compared with E6 and E7 glass, E8 offers the following unique benefits:

- Higher modulus, 17% higher than E6 glass, 7% higher than E7 glass;
- Higher softening point, 32℃ higher than E6 glass, 9℃ higher than E7 glass;
- The use of boron-free and fluorine-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



JUSHI

E8 glass fiber is made from a unique glass composition which improves the corrosion resistance in a variety of circumstances. Compared with E6 and E7glass 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

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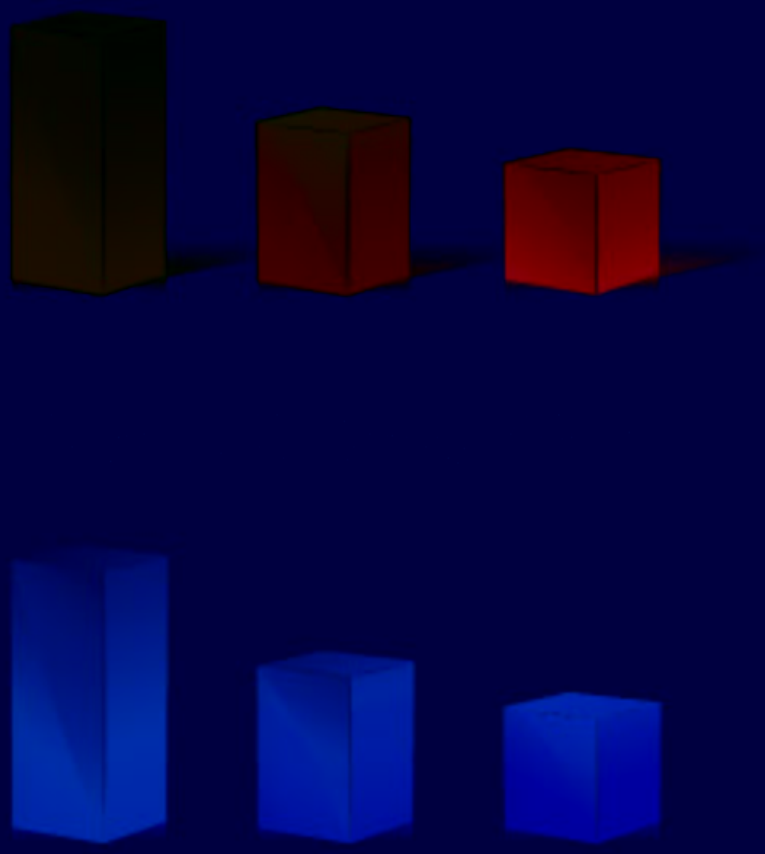

	at 23℃ for 24 hours	%	0.08	0.07	0.06
Weight loss in alkaline	Soaking in 0.025M Na_2CO_3 at 23℃ for 24 hours	%	0.24	0.14	0.12
	Soaking in 0.5M NaOH solution at 23℃ for 24 hours	%	0.43	0.22	0.20
Weight loss in boiling water	Boiling in water at 100℃ for 24 hours	%	0.39	0.23	0.20

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 [illegible] 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	90-98
1200 gm/m² UD fabric (tested in 0° direction) Infusion process Epoxy resin	Tensile strength (MPa)	ISO 527-5	/	1331.7	1532.3
	Tensile modulus (GPa)	ISO 527-5	/	48.5	51.6
	Fiber volume content (%)	ISO 1172	/	59.8	59.6
	Compressive strength (MPa)	ISO 14126	/	972.8	1043.9
	Compressive modulus (GPa)	ISO 14126	/	45.1	52.1
	Fiber volume content (%)	ISO 1172	/	54.4	54.3

CERTIFICATIONS

CHINA 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 [illegible]

China Jushi owns proprietary [illegible] technologies for large E-glass fiber furnaces, [illegible] furnaces and high-performance glass [illegible]. It 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 [illegible]nd 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 Classification Society (CCS), Germanischer Lloyd (GL) and Attestation De Conformité Sanitaire (ACS).

TECHNICAL COLLABORATI
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 professional to help customers solve problems in materials development and [illegible]

中国巨石股份有限公司
CHINA JUSHI CO., LTD

ongxiang Economic Development Zone, Zhejiang 314500, China
ational Sales: Tel: +86 573 88198618 Fax: +86 573 88162058
stic Sales: Tel: +86 573 88182016 Fax: +86 573 88198619
mer Service: Tel: +86 573 88198625 Fax: +86 573 88198242
www.jushi.com E-mail: info@jushi.com