



F8 HIGH MODULUS Glass Fiber

• A New Solution for High End Composites
• Having A Modulus Exceeding That of E-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



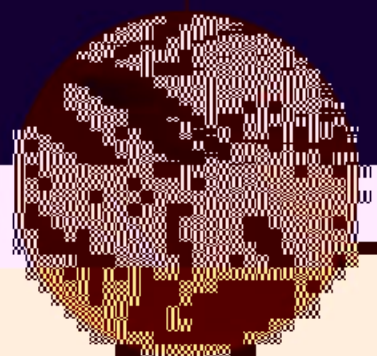
GOALS

CREATION OF A NEW SOLUTION FOR HIGH-END COMPOSITES

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



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



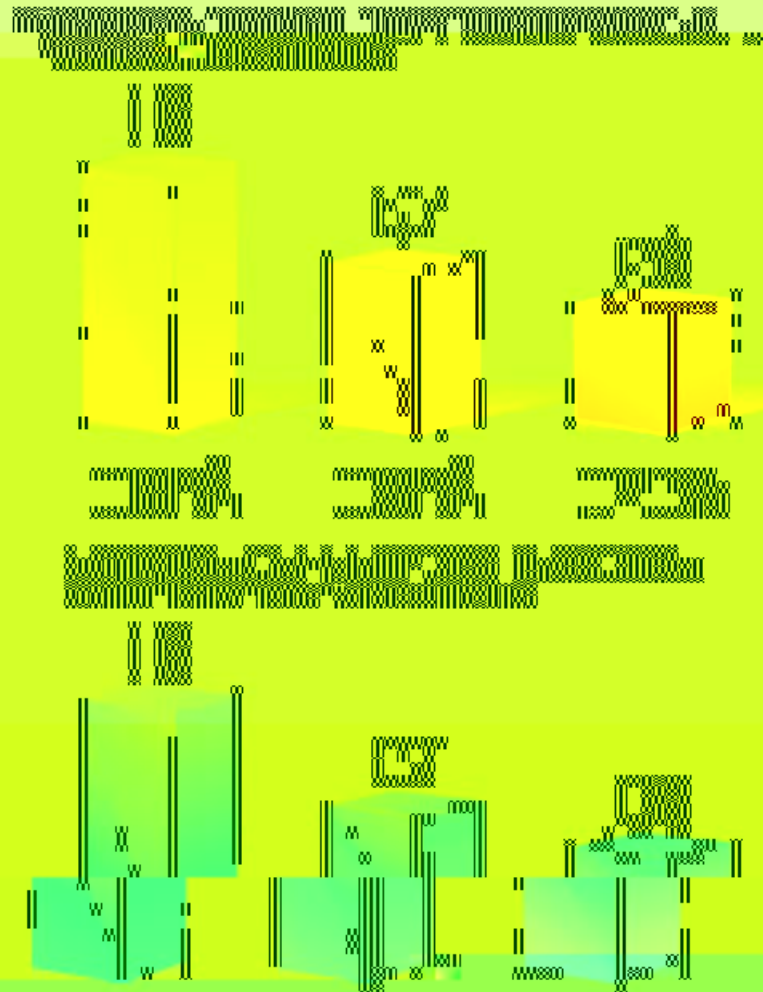
Compared with E6 and E7 glass, E8 offers the following unique benefits:

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



| Item | Unit | E6 | E7 | E8 | Unit |
|-------------------------------|-------|----------|----------|----------|-------|
| Modulus | MPa | 70000 | 80500 | 80670 | MPa |
| Strength | MPa | 100 | 110 | 110 | MPa |
| Thermal Expansion Coefficient | 1/°C | 9 | 9 | 9 | 1/°C |
| Thermal Shrinkage Coefficient | 1/°C | 0.000005 | 0.000005 | 0.000005 | 1/°C |
| Thermal Conductivity | W/mK | 1.0 | 1.0 | 1.0 | W/mK |
| Thermal Diffusivity | m²/s | 0.000001 | 0.000001 | 0.000001 | m²/s |
| Thermal Capacity | J/kgK | 840 | 840 | 840 | J/kgK |
| Thermal Conductivity | W/mK | 1.0 | 1.0 | 1.0 | W/mK |

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 for corrosion resistance.



| Environment | E6 | E7 | E8 |
|------------------|--------------------|--------------------|--------------------|
| Neutral solution | Corrosion observed | Corrosion observed | Corrosion observed |
| Acidic solution | Severe corrosion | Corrosion observed | Minimal corrosion |

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 performance composite aerospace aircraft.

| Test Sample | Property | Standard | E6 | E7 | E8 |
|---|----------------------------|------------|-----------|-----------|-----------|
| E-glass fiber E-glass mat | Tensile strength (MPa) | ASTM D3379 | 2300-2700 | 2600-3000 | 3100-3500 |
| | Tensile modulus (GPa) | ASTM D3379 | 85-95 | 85-95 | 95-105 |
| | Tensile strength (GPa) | ISO 6374 | / | 1321.7 | 1499.9 |
| 1200 gsm 1.0 fiber (used in IP direction) E-glass mat | Tensile modulus (GPa) | ISO 6374 | / | 48.5 | 51.8 |
| | Fiber volume content (%) | ISO 1552 | / | 52.5 | 53.8 |
| | Compressive strength (MPa) | ISO 16126 | / | 172.8 | 193.9 |
| E-glass mat | Compressive modulus (GPa) | ISO 16126 | / | 45.1 | 47.1 |
| | Fiber volume content (%) | ISO 1552 | / | 54.4 | 54.7 |





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 Enhance human management to improve efficiency and productivity,
- 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.



本公司秉承“科技兴企、品牌强企、人才立企、管理促企”的经营理念，不断加大研发投入，提升自主创新能力，掌握核心技术，提升产品质量，增强品牌影响力，扩大市场占有率，提高运营效率，提升管理水平，实现可持续发展。

本公司拥有自主知识产权的核心技术，包括大型E-玻璃纤维熔窑、C-玻璃纤维熔窑和高性能玻璃纤维等。我们始终坚持科技创新，不断提升产品质量和性能，以满足不同客户的需求。同时，我们注重品牌建设和人才培养，不断提升企业的核心竞争力，实现高质量发展。

荣誉证书



本公司荣获多项国家级、省级和行业奖项，充分体现了业界对我们产品质量和技术创新的认可。我们将继续秉承“科技兴企、品牌强企、人才立企、管理促企”的经营理念，不断提升企业实力，为行业发展做出更大贡献。

