

## E7 Glass Fiber

Optimal Cost-Performance Solution for High Performance Composite Materials



# E7

# New High Performance Glass Fiber

# Company Profile

Jushi Group specializes in the production of glass fiber. The company has attained the leadership position in the global glass fiber industry in terms of Output, Technology, R&D, Quality and Market share. Jushi Group is a Chinese national, key high technology enterprise, operating a distinguished Post-Doctoral Scientific and Technological Innovation Center.



• Optimize management to improve efficiency and

- Employ talented people to enable future growth\*.

The company owns proprietary, world-class core technologies for large E-glass fiber furnaces, C-glass fiber furnaces and waste fiber recycling furnaces. The company has its own core technology of world-class and achieved certifications to ISO9001, ISO14001,

and "Jushi" products and the trademark "JUSHI" has been recognized as "China Famous Trademark". The principal products of Jushi Group have been approved by China Classification Society (CCS), DET NORSKE VERITAS (DNV),

and has been approved by the government of the industry through a series of national and international standards.

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## GOALS

Provide Optimal Cost-Performance Solution  
for High Performance Composite Materials

# E7 GLASS FIBER

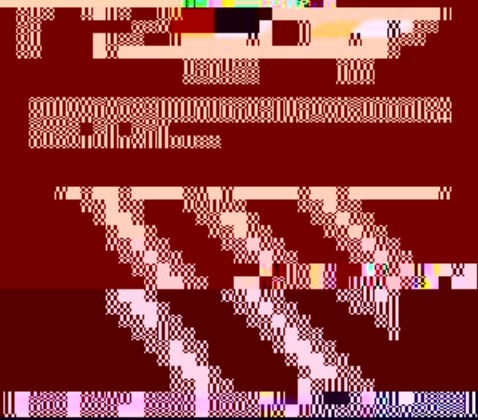
Boost the High Performance  
of Composite Materials



WEISSFILM

WEISSFILM

Material	Width	Weight	Length
White E7 Glass Fiber	1.5m	100g	100m
White E7 Glass Fiber	1.5m	200g	100m
White E7 Glass Fiber	1.5m	300g	100m
White E7 Glass Fiber	1.5m	400g	100m
White E7 Glass Fiber	1.5m	500g	100m
White E7 Glass Fiber	1.5m	600g	100m
White E7 Glass Fiber	1.5m	700g	100m
White E7 Glass Fiber	1.5m	800g	100m
White E7 Glass Fiber	1.5m	900g	100m
White E7 Glass Fiber	1.5m	1000g	100m



# E7 REINFORCEMENTS

Open New Space for High End Applications of Composites

The use of glass fiber reinforcements allows customers to design high performance composites beyond the limits of the polymer material itself. Jushi E7 glass fiber enables even higher composite performance. Compared with E-glass, composites based on E7 reinforcements have better mechanical properties including higher strength, modulus and fatigue resistance. E7 reinforcement will expand the use of high performance composites in large wind blades, high pressure vessels, pultrusion profiles and many other applications.

The exiting production technology with large refractory furnaces can be used to manufacture E7 at lower cost. The volume production of E7 glass fiber with large refractory furnaces makes it possible to meet the large demand for high performance glass fiber from high end industries such as the wind energy industry. The excellent mechanical properties and volume production with refractory furnaces make E7 an original cost performance solution for the composites industry.

## E7 Reinforcement will bring a sustainable energy generation mode, improve and reduce power generation cost

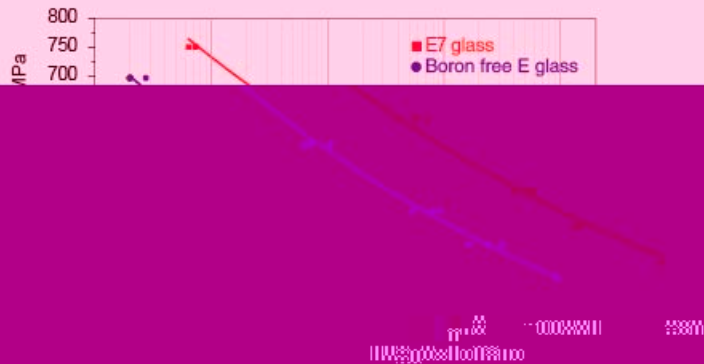
As a clean and inexhaustible energy source, the wind power can be generated at relatively low cost with mature technology. Due to environment issues related to thermal power and nuclear power more and more countries are setting up wind energy programs.



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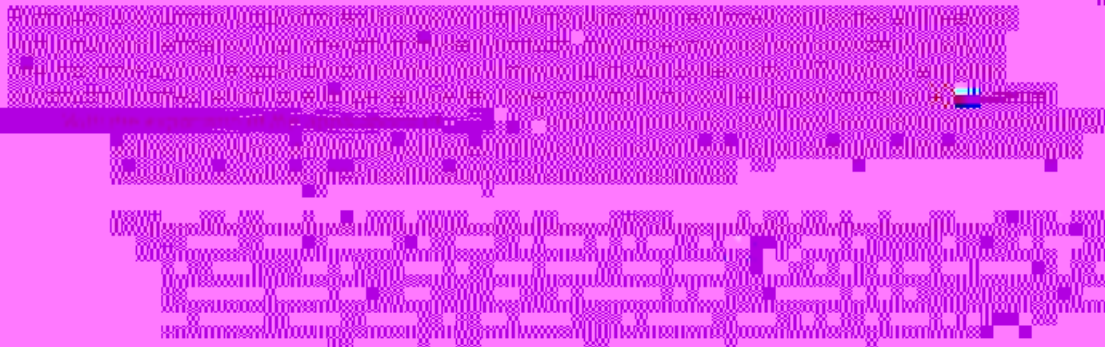
### Fatigue test result based on UD1200 laminate:



### Test conditions for fatigue resistance:

- Tested per ISO 13003:2003
- Laminates made with JUSHI E7 glass

「E7」-高性能のガラス繊維。高強度・高弾性率・高伸び率・高耐疲労性。高耐熱性・高耐湿性。



高強度・高弾性率・高伸び率・高耐疲労性・高耐熱性・高耐湿性

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品名	規格	単位	備考
E7	UD1200	kg	
E7	UD1200	kg	
E7	UD1200	kg	



# ENVIRONMENTAL PROTECTION

## Become A Model for Clean Production

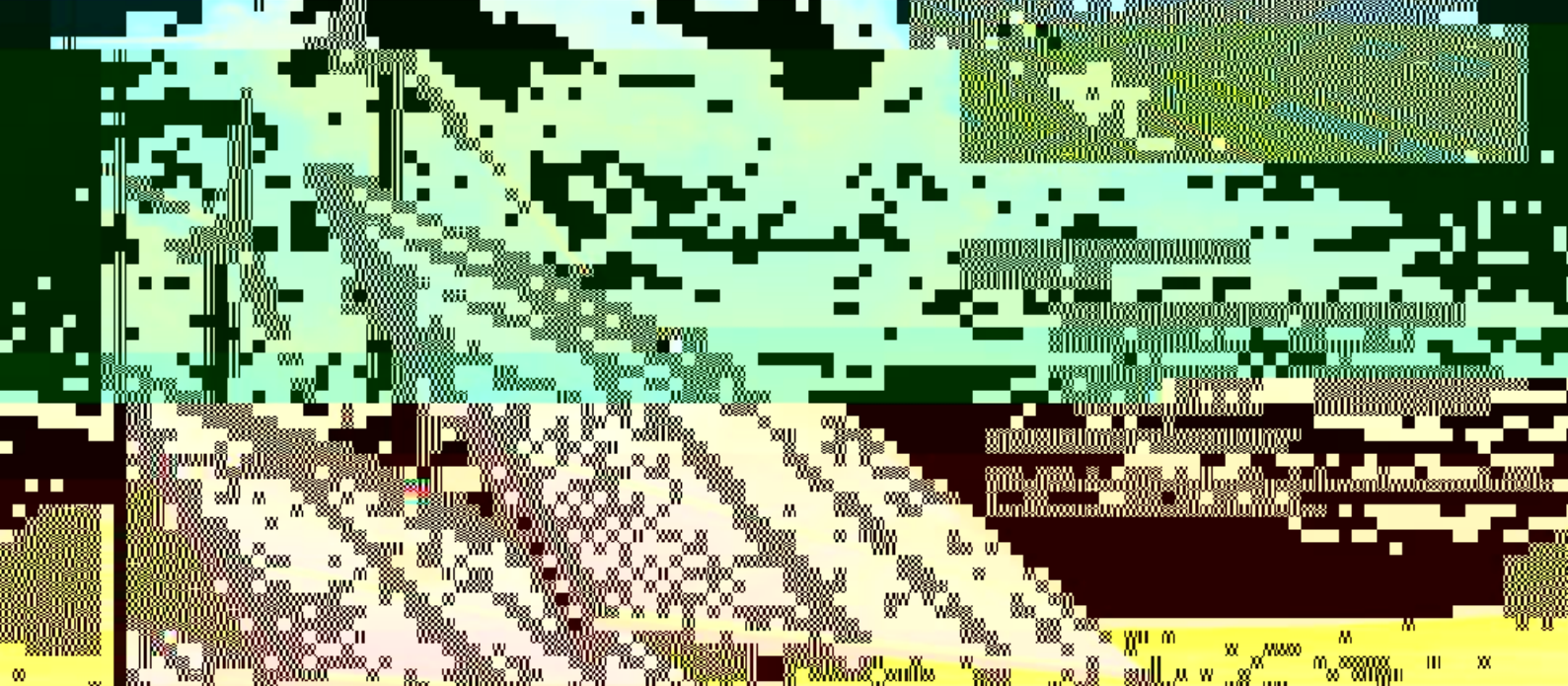
Jushi Group is committed to improving our environmental footprint. We have invested heavily in the most modern technologies available to reduce pollutant emissions into our environment. Improved oxygen firing technology reduced total waste gas emissions from the furnace by 80% and the nitrogen oxide emissions by over 90%. State of the art glass recycling technology ensures zero discharge of process waste glass fiber. Modern waste purification technology enables zero discharge of industrial waste water from our production process.

E7 Glass Fiber is produced by more scientific production technology and process which not only improve the product performances, but also significantly reduces air pollutants. The development of E7 Glass Fiber is consistent with our constant commitment to social responsibility and sustainability. Not only have we achieved the goal of improving our glass fiber products, but we also have improved our environmental footprint at the same time.

# CUSTOMER AND TECHNICAL SUPPORT ORGANIZATION

*Jushi Group possesses world class core technologies and advanced testing and analysis capabilities for glass, organic chemistry, glass fiber and composites. We have established a global network and technical service professionals to help customers solve problems in materials development and process optimization. We collaborate closely with customers to address market challenges and promote the growth of the composites industry.*

*We will share with you all the information on E7 glass fiber reinforcements as well as our considerable knowledge of compounding and molding technology and processes.*





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