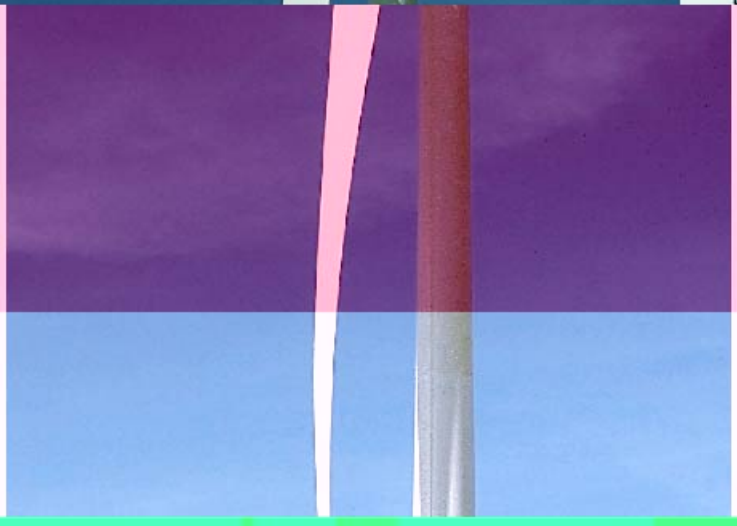
JUSHI®

E7 Glass Fiber

Optimal Cost-Performance Solution for High Performance Composite Materials



E7

New High Performance Glass Fiber

中国巨石股份有限公司
CHINA JUSHI CO., LTD

Company Profile

Jushi Group specializes in the production of glass fiber. The company has att[illegible] leadership positio[illegible] 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-Doc[illegible]

E7 New High Performance

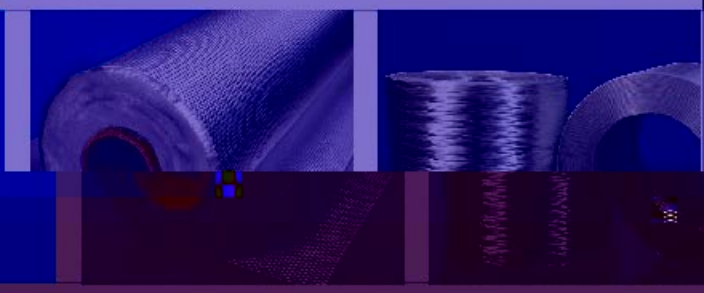
GOALS

Provide Optimal Cost-Performance Solution
for High Performance Ceramic Materials

needs of the high end markets. E7 provides a brand-new technological platform for Ju
Group products. The product lines developed on the basis of this new platform have
applications and offer brand new solutions to the various needs of demanding custom

E7 GLASS FIBER

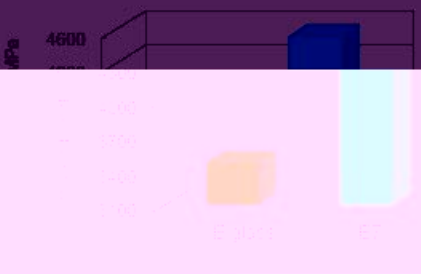
Boost the High Performance of Composite Materials



Compared with traditional E glass, E7 delivers the following unique advantages:

- *Higher strength, 30% higher than traditional E glass;*
- *Higher modulus, 23% higher than traditonal E glass;*
- *Higher softening poin*

Comparison of Tensile Strength between E7 and E glass Fiber:



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 huge demand for high performance glass fiber from high end industries such as the wind energy industry. The excellent mechanical properties and volume production with lower cost of the E7 reinforcements will be a revolution for the composites industry.

E7 - reinforced wind blades are longer and more powerful and reduce power generation cost

E7

New High Performance
Glass Fiber

JUSHI

Fatigue test result based on UD1200 laminate:

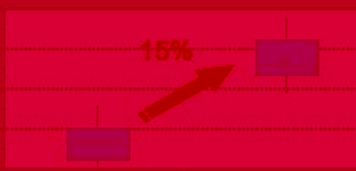
Test t

E7 - Reinforced pultrusion materials have higher strength, stiffness and performance

Pultrusion is a common production technology for producing glass fiber reinforced composites and features high production efficiency, high strength of finished products, low processing cost and consistent quality. It now has more and more applications including, for instance, pultruded custom rods, FRP bridges and other construction profiles, which have longer service life, lower manufacturing cost and good corrosion [illegible]. With the expansion of the applications of [illegible] FRP products, customers are getting more demanding and require lighter and thinner pultruded FRP products which have higher strength, stiffness and fatigue resistance as well as good weatherability and corrosion resistance.

E7 glass fiber not only[illegible] the advantages of E7 glass and offers better strength, stiffness and fatigue resistance, thus making it easier to manufacture [illegible] and light final products, which are lighter and thinner with equal strength, and have longer fatigue life and hence longer service life under the same stress. In addition, E7 glass fiber has corrosion resistance equivalent with that of ECR glass fiber in various environments, making [illegible] to use it for pultruded FRP products.

Take for instance the new generation 3121 for pultrusion. Compared with the former low Ei glass based 3121, the E7 based version has 15% higher tensile strength and 10% higher tensile modulus.



Test Performance Comparison between below Ei glass 3121 and E7-3121 (Glass content: E7 [illegible]%, [illegible])

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.

中国巨石股份有限公司
CHINA JUSHI CO., LTD

Add: Tongxiang Economic Development Zone, Zhejiang 314500, China

International Sales: Tel: +86-573-88136318 Fax: +86-573-88181058

Domestic Sales: Tel: +86-573-88181016 Fax: +86-573-88136319

Customer Service: Tel: +86-573-88136325 Fax: +86-573-88136248

Http://www.jushi.com E-mail: info@jushi.com