

Production of Glass Fiber

Description:

Production of Glass Fiber. Investment Opportunities in Composites Industry

Glass fiber also called fiberglass. It is material made from extremely fine fibers of glass. Fiberglass is a lightweight, extremely strong, and robust material. Although strength properties are somewhat lower than carbon fiber and it is less stiff, the material is typically far less brittle, and the raw materials are much less expensive. Its bulk strength and weight properties are also very favorable when compared to metals, and it can be easily formed using molding processes.

Glass fiber is manufactured from various raw materials, namely, silica sand, alumina, limestone, clay, and boric acid. There are different types of glass fiber, like E-glass and S-glass, depending on the mechanical properties. E-glass has high mechanical properties and it is used in armor applications.

Types of Glass Fiber

As to the raw material glass used to make glass fibres, the following types of glass fiber:

- 1.A-glass: With regard to its composition, it is close to window glass. It is mainly used in the manufacture of process equipment.
- 2.C-glass: This kind of glass shows better resistance to chemical impact.
- 3.E-glass: This kind of glass combines the characteristics of C-glass with very good insulation to electricity.
- 4.AE-glass: Alkali resistant glass.

Generally, glass consists of quartz sand, soda, sodium sulphate, potash, feldspar and a number of refining and dyeing additives. The characteristics, with them the classification of the glass fibres to be made, are defined by the combination of raw materials and their proportions. Textile glass fibres mostly show a circular.

For more details download PDF file.

Keywords: Making of Glass Fiber, Glass Fiber, Glass Fiber Manufacturing, How Fiberglass is Made, Industrial Production of Glass Fibers, Glass Fibers Composite Manufacturing Process, Fiberglass Manufacturing, Manufacture of Glass Fiber, Glass Fiber Manufacturing Process Pdf, Glass Fiber Manufacturing Process PPT, Glass Fibres Manufacturing, Properties and Applications, How is Fiberglass Made?, Glass Fibre Production, Glass-Fiber Reinforced Composites Manufacturing, Manufacture of Glass Fibre, Continuous Fi

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