

# Tianfu Composite Product Catalog



Anhui Tianfu New Material co.,Ltd

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# 01.Company Profile



## Anhui Tianfu New Material co.,Ltd

Anhui Tianfu,was established in 1998.Since its establishment,the company has been committed to the research and development,production and sales of high-quality resin-based fiber composite reinforcing materials.Now we have covers an area of nearly 15,000 square meters,has nearly 120 employees,equipped more than 100 sets of standard grating molds,ABS and other international well-known institu-tions.We are the largest distributor of China JUSHI. We also represent and sell all major brands of fiberglass yarn and resin brands.7 year exportation experience.

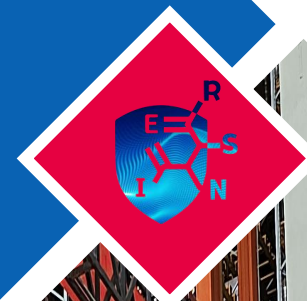
ISO9001

SGS

BV

# 02 Fiberglass

Roving  
Chopped Strands  
Mat  
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Mesh  
Carbon





# Fiberglass Roving

## Fiberglass Direct Roving

Fiberglass E-Glass Direct Roving is compatible with polyester, vinyl ester, epoxy and phenolic resins etc.. this product is extensively used in filament winding, pultrusion, weaving fabrics, like woven roving and geogrid.

## Fiberglass SMC Roving

Fiberglass SMC Roving is compatible with unsaturated polyester resin and vinyl ester resin. It is mainly used for automobile parts, electrical appliance, tank crust and sport instruments, etc..

## Fiberglass Spray Up Roving

Fiberglass Spray Up Roving is compatible with unsaturated polyester resins, vinyl ester resin and epoxy resin, it is used for spray up and centrifugal casting. It mainly used for producing GRP ships, sanitary ware, storage tanks and Hobas pipes, ect..

# Fiberglass Roving

## Fiberglass Gypsum Roving

This Roving is specifically designed to reinforce for gypsum. It is chopped into a specific length and the chop is mixed with gypsum, starch powder and accelerating agent. Then the mixture is molded, cured, cut and dried to form a light weight construction boards.

## Fiberglass ECR Roving

Fiberglass ECR Roving for pultrusion, which is coated the silane, compatible with polyester, vinylester and epoxy etc. It's also compatible with many kinds of resins. It is used in the FRP extrusion molding and many kinds of FRP materials, such as tabernacles, gratings, poles, FRP rebar, cable slot and Wind

## Alkali-resistant Glass Fiber Roving

Alkali-resistant glass fiber has a high degree of corrosion resistance in the environment of cement and other alkaline medium. It can be used to reinforce cement gypsum and other inorganic materials. Light in weight and high in strength, GRC is suitable for skyscrapers, civil engineering, gardens, etc.



# Fiberglass Chopped Strands

## Fiberglass AR Chopped Strands

Fiberglass AR Chopped Strands are in the line chopped, the chopped strands include ZrO<sub>2</sub> 16.5% . It is used as raw materials in waterproofing for construction.

Chopped Strands for BMC are compatible with unsaturated polyester, epoxy resin and phenolic resin. The end-use applications include transportation, building&construction, electronic&electrical, mechanical, and light industry

## Fiberglass Chopped Strands For BMC

## Fiberglass Chopped Strands For Concrete

Fiberglass chopped strands for Concrete, can improve the performance of concrete permeability, also the impact resistance and toughness durability of concrete, mainly used in cement, gypsum board, plastic, composite materials and other construction engineering, reinforcement, crack resistance, wear resistance, etc.

Fiberglass Chopped Strands for needle mat is chopped from special e-glass fiber yarn. E-glass yarn is a kind of tiny fiber and chopped into certain length. The chopped strands form infinity tiny voids in mat manufacturing process and impact the mat multihole structure and excellent heat insulation property.

## Fiberglass Chopped Strands For Needle Mat

## Fiberglass Chopped Strands For Brake Pads

Fiberglass Chopped Strands used in brake and clutch of automobile, motorcycle, locomotives and aeroplane as raw material with excellent properties of stability, low rate of friction loss and good heating conductivity.

Fiberglass Chopped Strands for thermoplastic are based on silane coupling agent and special sizing formulation, compatible with PA, PBT/PET, PP. E-Glass Chopped Strands for thermoplastic are know for excellent strand integrity, superior flowability and processing property, delivering excellent mechanical property and high surface quality to its finished products.

## Fiberglass Chopped Strands For PA/PP/PBT

# Fiberglass Mat

## Fiberglass Needle Mat

Fiberglass needle mat is a kind of rational structure, good performance material, with glass fiber as raw material, after needling and carding the short cutting glass fiber, mat different thickness with mechanical method between layers of glass fiber. Widely used in electrical equipment, heat preservation, heat insulation, automotive exhaust treatment, etc.

## Fiberglass Chopped Strand Mat

Fiberglass Chopped Strand Mat is made of E Chopped Strands, which are randomly distributed and bonded together with polyester binder in powder or emulsion form. The mats are compatible with unsaturated polyester, vinyl ester and other various resins. It's mainly used in hand lay-up, filament winding and compression molding processes. The typical FRP products are panels, tanks, boats, pipes etc.

## Fiberglass Plain Weave Cloth

Fiberglass cloth is a general name for the electronic grade glass fiber cloth which was made by E glass fiber or C glass fiber, it is widely used in the electronics industry. It is the high-end products in the fiber glass cloth. Fiber glass cloth offers an excellent combination of properties from high strength to fire resistance. Wide ranges of yarn styles and weave styles provide varieties design potential, allowing the buyers to choose the best combination of material performance, economics and product flexibility

Fiberglass Stitched Mat is made by chopping continuous strands into chopped strands and stitching them together by machine. Which is widely used in new field like wind energy source, etc.

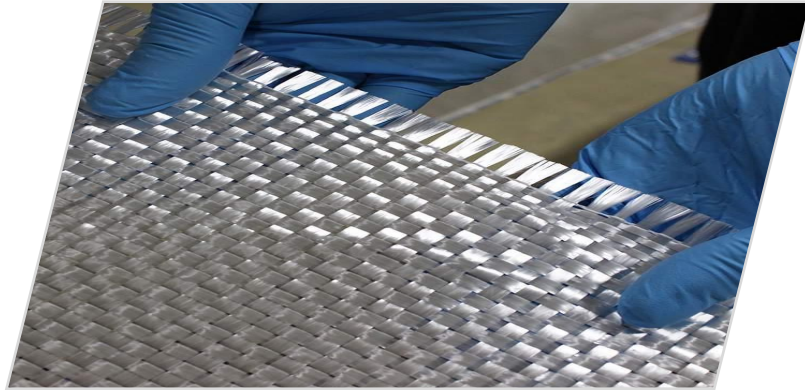
## Fiberglass Stitched Mat

Our glass fiber tissue made from E /ECR/C Glass can be classified as surface tissue for pipe, roof tissue, Pipe Tissue ,Flooring Tissue , Carpet Tissue ,Battery Separator tissue ,Coated tissue for gypsum sheathing and Coated Tissue For Polyurethane Foam. Product Unit weight is of 20-120g/m<sup>2</sup>, Width of 45mm and 50mm or others,Maximum width is 1 meter. Our products can be used in the process of continuous winding, Hand lay-up and pultrusion .Surfacing veil is mainly used in the surfaced layers of FRP products it is divided into winding S-SM series and hand lay-up S-HM series.

## Fiberglass Tissue Mat



# Fiberglass Woven Roving & Fabric



## Fiberglass Woven Roving

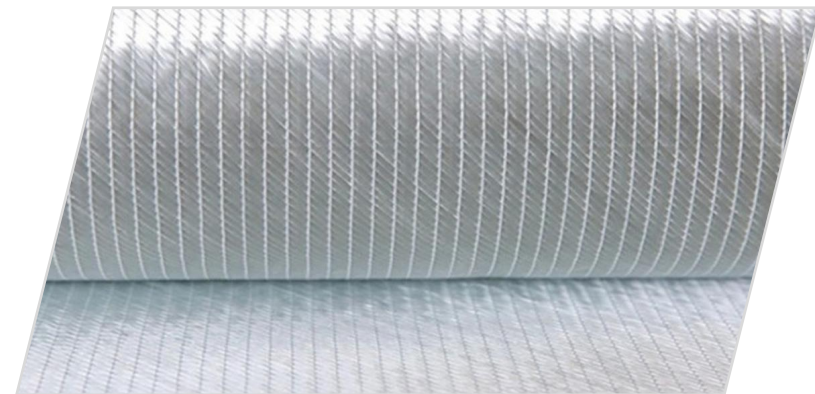
Fiberglass Woven Roving is made of fiberglass direct rovings in plain and twill weaving method. The input rovings are designed to give controlled wet-out and excellent laminate properties. It is compatible with Polyester, Vinyl ester and Epoxy resin and widely used in hand machine production, such as boats, vessels, plane and automotive parts, furniture, sports and other areas.

Fabric

## Fiberglass Multiaxial Fabric

Multiaxial include Uni-Directional, Biaxial, Triaxial and Quadraxial Fabrics. The entire Partial warp, weft and double bias plies are stitched into a single fabric. With out filament crimp in woven roving, the Multiaxial fabrics are in advantage of high strength, excellent stiffness, low weight and thickness, as well as the improved fabric surface quality. The fabrics can be combined with chopped strand mat or tissue or nonwoven materials.

Woven



# Fiberglass Tape & Mesh



## Fiberglass Mesh

Fiberglass mesh is fiberglass leno fabric as the substrate, the anti-emulsion polymer coating after immersion, which has good alkali resistance, flexibility and strong tensile strength, it can be widely used in exterior insulation finishing system (EIFS), roofing system, marble, etc.

Tape

## Fiberglass Adhesive Tape

The fiberglass self-adhesive tape is made by cutting high-quality fiberglass fabric coated with cyclic acid copolymer. Because fiberglass has a stable chemical property and is not liable to oxidate, the fiberglass self-adhesive tape for joint filling has superiority.

Some other features:

- Very strong self-adhesive
- Sticks well in cold weather
- Will not absorb moisture
- Will not be affected by mold
- Fire resistant
- Will not tear
- Will not shrink

Application for this kind of fiberglass adhesive tape:

- Seaming drywall joints
- Reinforce or repair wall cracks, plasterboard cracks, and cement board

Mesh

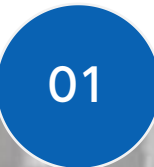




# Carbon

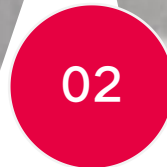
## Carbon Fiber Yarn

Carbon Fiber Yarn is a long, thin strand of material about 0.0002-0.0004(0.005-0.010 mm) in diameter and composed mostly of carbon atoms. The carbon atoms are bonded together in microscopic crystals that are more or less aligned parallel to the long axis of the fiber. Carbon fiber yarns are mainly used in composites such as CFRP, CFRTP or C/C composites, including aircraft/aerospace equipment, sporting goods and industrial equipment parts.



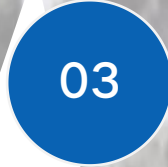
## Chopped Carbon Fiber

Carbon fiber chopped strands is made of carbon fiber filament through cutting machine. The length is generally 3mm, 6mm and 12mm. Due to the appearance of a certain length of whisker, compared with filament, it has the advantages of uniform dispersion, diverse feeding methods and simple process in industrial use. It is mainly used in military industry, aerospace and other high-tech fields. However, with the rapid development of economy, the excellent performance of carbon fiber is also increasingly widely used in civil fields.



## Carbon Fabric cloth

Carbon fabric is a unidirectional reinforced product, usually woven with 3K, 6K, 12K carbon fiber yarn. It is common used for tensile, shear and seismic reinforcement of structural components. The material is used together with the matching impregnating glue to form a carbon fiber composite material, which can constitute a complete carbon fabric sheet reinforcement system and is suitable for various fields such as industry, fire protection, construction, and aerospace.

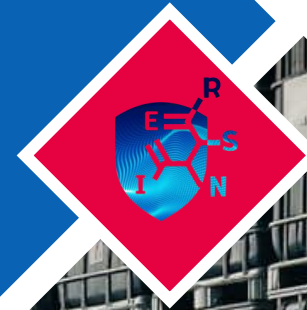


## Carbon Fiber Axial Fabric

Carbon fiber axial fabrics are made up of parallel fibers laid in Specified direction orientations, stitched with texturized polyester yarn. This material is not the best for the cosmetic visual layer for parts, however it will work great for adding bulk to a part. We can supply Unidirectional, Biaxial, Triaxial and Quadriaxial Carbon fiber fabric. It can widely be used for marine, wind, industrial, sports and automotive applications.

# 03 Resin

Unsaturated Polyester Resin  
Vinyl Ester Resin





# Unsaturated Polyester Resin



## Hand Layup Resin

Hand lay-up is the most common and least expensive open-molding method because it requires the least amount of equipment.

## Pultrusion Resin

Pultrusion is used to form composites into long, consistent shapes like rods or bars.

## Filament Winding Resin

Filament winding is an automated process that applies resin-saturated, continuous strands of fiber reinforcements over a rotating cylindrical mold.

# Unsaturated Polyester Resin



## Vacuum/RTM Resin

In closed-molding, raw materials (fibers and resin) cure inside a two-sided mold or within a vacuum bag (shut off from air).

## BMC Resin

Bulk Molding Compounds (BMC) and Sheet Molding Compounds (SMC) are both fiber reinforced materials, typically utilize glass strand fibers of varying lengths.

## SMC Resin

SMC uses slightly longer length fibers than BMC, and typically has a higher percentage of reinforcement fibers than BMC.



# Vinyl Ester Resin

## Standard Vinyl Ester Resins

Standard bisphenol A vinyl ester resins, such as 901, CHEMPULSE 901, etc., are the widely used resins. They have good corrosion resistance to common acids, alkalis, salts and organic solvents. This kind of resin can also be prepared into pre promoted type, such as: 901-P, anti sag flow type, such as 901-T, pre-promoted anti sag flow type, such as 901-TP, to meet different process requirements.

## High Temperature Resistant Phenolic Vinyl Ester Resins

Phenolic vinyl ester resins such as CHEMPULSE 907, 907-S, 900, 977-S, a phenolic epoxy modified vinyl ester resin, has a high crosslinking density after curing, which makes it have a good resistance to oxidizing acids and strong corrosive organic solvents. At the same time, it is endowed with extremely high HDT, which can be used in some high temperature occasions, such as the preparation of high temperature flue and smoke pipe.

## Flame Retardant Vinyl Ester Resins

Brominated reactive flame retardant vinyl ester resins, such as 905-2, 905-2HOI, 905-N, 915, CHEMPULSE 915-HOI, etc., have good corrosion resistance. At the same time, due to the introduction of halogen into the resin system, it has excellent flame retardant properties, and is mainly used in corrosion-resistant equipment with flame retardant requirements.