

JIANGSU GREAT INDUSTRIALS GROUP CORP.LTD.

PROFESSIONAL FIBRE PRODUCER



CHOPPED ACRYLIC FIBRE

Acrylic short fibre are made by cutting PAN based carbon fibre raw fibre into a certain length, mainly used in the friction and sealing materials .

The role of acrylic fibre in friction material products

- a、 Enhance the stability of product performance;
- b、 Reduce deformation, improve anti slip and wear resistance;
- c、 Improve the crack resistance of products;
- d、 Improve the dispersion in the product;
- e、 Improve the tensile strength and toughness of the product, and enhance its impact resistance.

Main Models: XD-3

Material		Wet process	
Price		Friction	
Strength		Sealing	
Temperature resistance performance		Engineering plastic	
Dry mixing process		Construction	

 Better
  Moderate
  Organic
  Inorganic
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CHOPPED ARAMID FIBRE

Chopped aramid fibre is made by cutting para aramid filament with special equipment. Aramid fibre have excellent properties such as high strength, high modulus, high temperature resistance, and good dimensional stability.

Main Models: PPTA-3

Material		Temperature resistance performance		Friction		Construction	
Price		Dry mixing process		Sealing			
Strength		Wet process		Engineering plastic			



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CHOPPED CARBON FIBRE

Chopped carbon fibre is made by cutting PAN based carbon fibre filaments, and its basic properties mainly depend on the properties of its raw material - carbon fiber filaments. Due to its appearance as fibers of a certain length, short fibre have the advantages of uniform dispersion and simple mixing process compared to long fibre.

The role of Chopped carbon fibre in friction and sealing material products

- a、 Enhance the thermal stability of the product;
- b、 Reduce deformation, improve anti slip and wear resistance;
- c、 Improve the crack resistance of products;
- d、 Improve the dispersion of other raw materials in the product;
- e、 Improve the tensile strength and toughness of the product, and enhance its impact resistance.

Main Models: Cf-3

Material		Temperature resistance performance		Friction		Construction	
Price		Dry mixing process		Sealing			
Strength		Wet process		Engineering plastic			



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Organic



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CHOPPED GLASS FIBRE

Chopped alkali free glass fibre is made by cutting continuous glass fibre strands into a certain length, mainly used as a reinforcing material for thermosetting resins.

Short cut alkali free glass fibre can be quickly and uniformly dispersed in dry and wet phenolic resins, with excellent mechanical and temperature resistance properties, and are widely used in the friction material industry.

Main Models: ED-3

Material		Temperature resistance performance		Friction		Construction	
Price		Dry mixing process		Sealing			
Strength		Wet process		Engineering plastic			



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CHOPPED BASALT FIBRE

Basalt fibre is made from natural basalt as raw material, which is crushed and melted at 1450 °C -1500 °C. It is rapidly drawn through platinum rhodium alloy wire drawing and surface infiltration, and is known as the "new material of the 21st century".

Basalt fibre has special comprehensive properties such as acid resistance, high temperature resistance, high strength, and radiation resistance, and can be widely used in fields such as transportation, construction, energy conservation and environmental protection, fibre protection, and chemical engineering. It is a multifunctional inorganic fibre material.



Main Models: BD-6

Material		Temperature resistance performance		Friction		Construction	
Price		Dry mixing process		Sealing			
Strength		Wet process		Engineering plastic Precess			

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CHOPPED PRE OXIDIZED FIBRE

Chopped pre oxidized silk fibre are made by cutting long PAN based pre oxidized silk fibre. Due to its appearance as fibre of a certain length, short fibre have the advantages of uniform dispersion, diverse mixing methods, and simple processing compared to long fibre. Therefore, they can be applied in fields where long fibre are not suitable, mainly for reinforcing composite materials.

The role in friction and sealing material products

- a、 Enhance the thermal stability of the product;
- b、 Reduce deformation, improve anti slip and wear resistance;
- c、 Improve the dispersion in the product;
- d、 Improve the tensile strength and toughness of the product, and enhance its impact resistance.

Main Models: CP-3

Material		Wet process	
Price		Friction	
Strength		Sealing	
Temperature resistance performance		Engineering plastic	
Dry mixing process		Construction	



Better



Moderate



Organic



Inorganic



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CARBON FIBRE POWDER

This product is processed from PAN based carbon fibre. The product is applied to thermosetting and thermoplastic (polymer and elastomer) materials, such as friction, rubber, paper, concrete, coatings and other industries. Before applying in new industries, it is necessary to conduct inspection and confirmation.

Instructions

Carbon fibre is not harmful to the body, but carbon fibre powder can irritate the skin, eyes, respiratory tract, etc. When using, wear protective equipment as needed.

Carbon fibre powder is a conductive material, and attention should be paid to electrical safety when using it.

Main Models: CfP-100

Material		Temperature resistance performance		Friction		Construction	
Price		Dry mixing process		Sealing			
Strength		Wet process		Engineering plastic			



Better



Moderate



Organic



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PRE OXIDIZED FIBRE POWDER

Short cut pre oxidized fibre are made by cutting long PAN based pre oxidized fibre. Due to its appearance as fibre of a certain length, short fibre have the advantages of uniform dispersion, diverse mixing methods, and simple processing compared to long fibre. Therefore, they can be applied in fields where long fibre are not suitable, mainly for reinforcing composite materials.

Chopped pre oxidized fiber in friction and sealing material products

- a、 Enhance the thermal stability of the product;
- b、 Reduce deformation, improve anti slip and wear resistance;
- c、 Improve the dispersion of other raw materials in the product;
- d、 Improve the tensile strength and toughness of the product, and enhance its impact resistance.

Main Models: CP-200

Material		Wet process	
Price		Friction	
strength		Sealing	
Temperature resistance performance		Engineering plastic	
Dry mixing process		Construction	

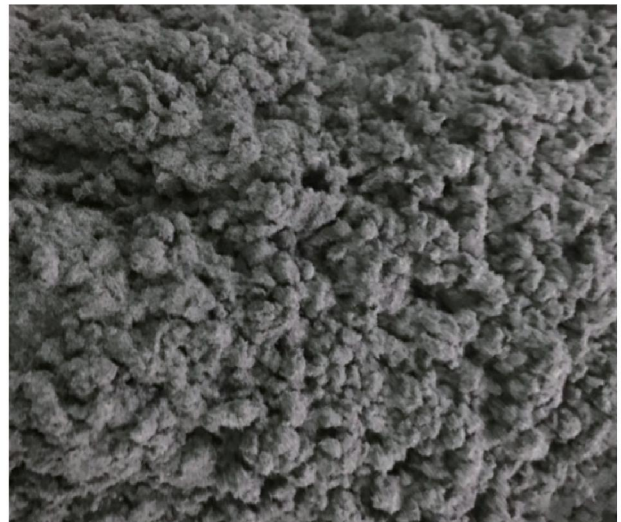
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Product code description

Cp-1000: Ultra short cut pre oxidized fibre
Cp-200: Pre oxidized fiber powder



Cp-1000: Ultra Chopped pre oxidized fibre



Cp-200: Pre-oxidized fibre powder

ARAMID POWDER

Aramid powder is a light yellow powder processed from para aramid, with an irregular fibrous microstructure.

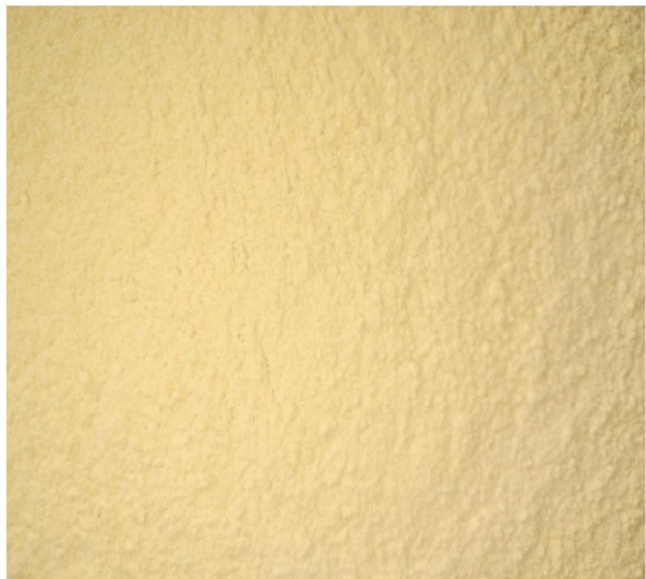
Paraaramid microfibers have excellent friction and wear properties, good chemical corrosion resistance, and, like aramid fibre, good high temperature resistance. They can be used for a long time below 400 °C. The product is widely used to enhance composite materials.

Macroscopically, aramid microfiber is a type of powder. After the product is enlarged, the single particle shape is irregular fibrous, which has a significant reinforcing effect on the product.

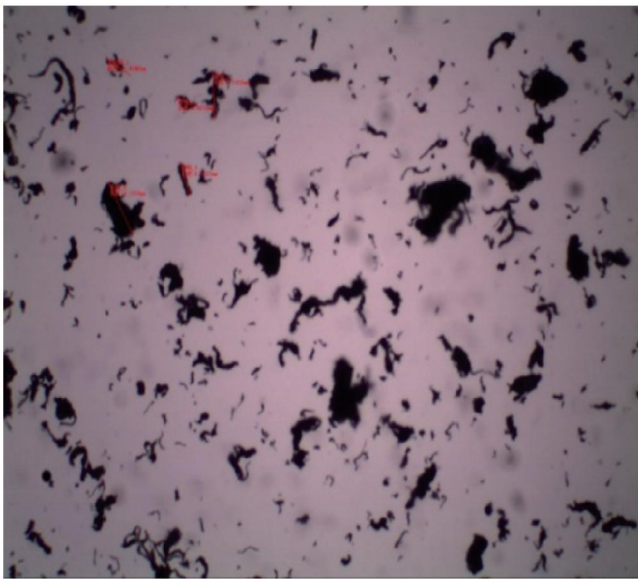
Main Models: PPTA-60

Material		Temperature resistance performance		Friction		Construction	
Price		Dry mixing process		Sealing			
Strength		Wet process		Engineering plastic			

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Aramid powder products



40X micrograph

POLYACRYLONITRILE POWDER

Polyacrylonitrile powder is a white powder processed from polyacrylonitrile.

Polyacrylonitrile powder has the same chemical properties as acrylic fibre and can be used in composite materials to improve the overall performance of products. Polyacrylonitrile powder has excellent friction and wear properties, good chemical corrosion resistance, and physical and chemical properties similar to acrylic fiber. The product is widely used to enhance composite materials.

Macroscopically, polyacrylonitrile powder is a type of powder. After the product is enlarged, the single particle shape is irregular fibrous, which has a significant reinforcing effect on the product.

Main Models: PAN-50

Material		Temperature resistance performance		Friction		Construction	
Price		Dry mixing process		Sealing			
Strength		Wet process		Engineering plastic			



Better



Moderate



Organic



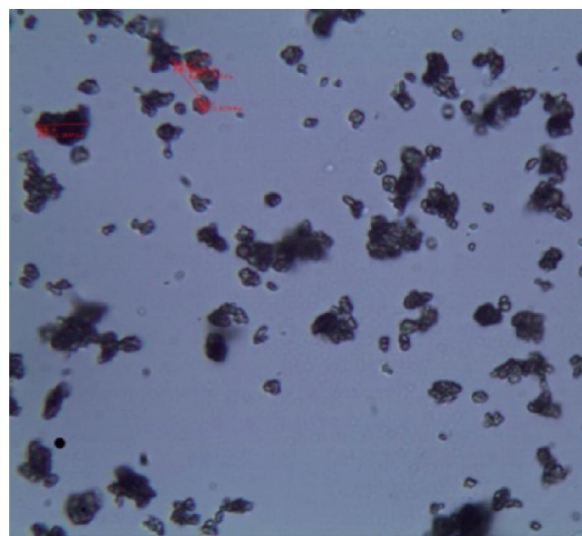
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Polyacrylonitrile powder products



40X micrograph

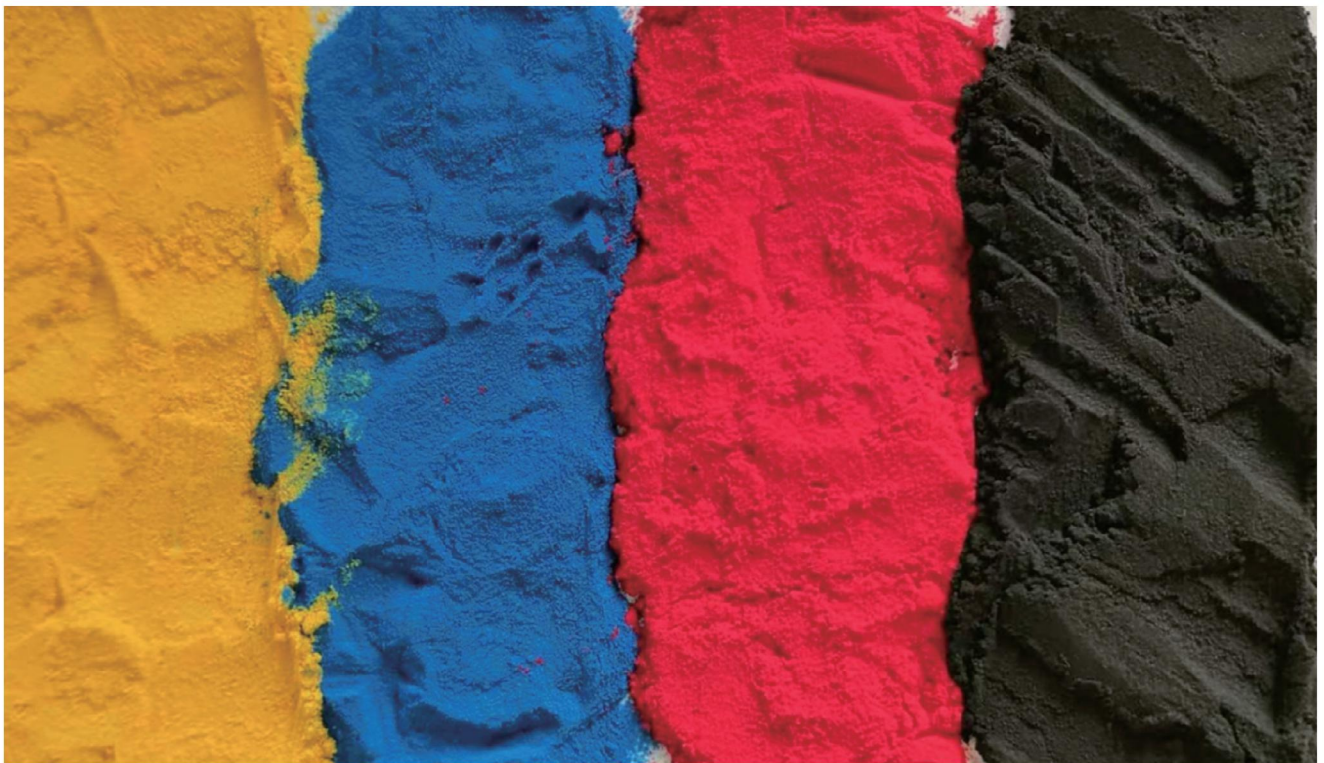
POWDER COATING

Powder coating, the finished product has a powdery appearance. Powder coating products are used for coating the steel back surface of brake pads, achieving rust prevention protection and beautiful color.

The raw and auxiliary materials used in the product are all solid materials and do not contain any solvents. The production process has zero emissions of harmful gases (VOCs). There is no wastewater, exhaust gas, or waste residue generated during the production process, and the product is not flammable or explosive. The production process generates a small amount of dust, which can be collected and reused.

In the current situation of extremely strict environmental protection, plastic powder, as an environmentally friendly coating material, can replace paint and electroplating processes, and paint to powder conversion has become the trend. Compared with paint and electroplating, it has the advantages of low cost, good effect, and more environmentally friendly.

Product usage method: The powder is adsorbed onto the surface of metal parts by an electrostatic spray gun, baked at about 200 °C for 15 minutes (the baking time should be appropriately extended for ultra thick parts), and naturally cooled to form a coating on the surface of the workpiece.





ARAMID PULP

Aramid pulp is a product obtained by microfibering aramid fibre filaments. In the process of microfibrilization, due to special mechanical effects, the surface of the filament is locally damaged, forming a large number of dendritic microfibers connected to the original filament. Therefore, aramid pulp not only has the high strength of aramid filament, but also has a high specific surface area.

Aramid pulp is mainly used in the production of high-performance friction materials and sealing pads.

Main Models: FP-102

Material		Temperature resistance performance		Friction		Construction	
Price		Dry mixing process		Sealing			
Strength		Wet process		Engineering plastic			



Better



Moderate



Organic



Inorganic



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ACRYLIC PULP

Acrylic pulp is the product of microfiber processing of acrylic fibre filaments. In the process of microfibrilization, due to special mechanical action, the surface of the filament is locally damaged, forming a large number of dendritic microfibers connected to the original filament, making the acrylic pulp have a high specific surface area. In the mixing process, it is fully combined with other raw materials, which is conducive to the cold forming of the product and the comprehensive performance of the finished product.

Acrylic pulp is mainly used in the production of high-performance friction materials and sealing pads

Main Models: FP-202

Material		Temperature resistance performance		Friction		Construction	
Price		Dry mixing process		Sealing			
Strength		Wet process		Engineering plastic			



Better



Moderate



Organic



Inorganic

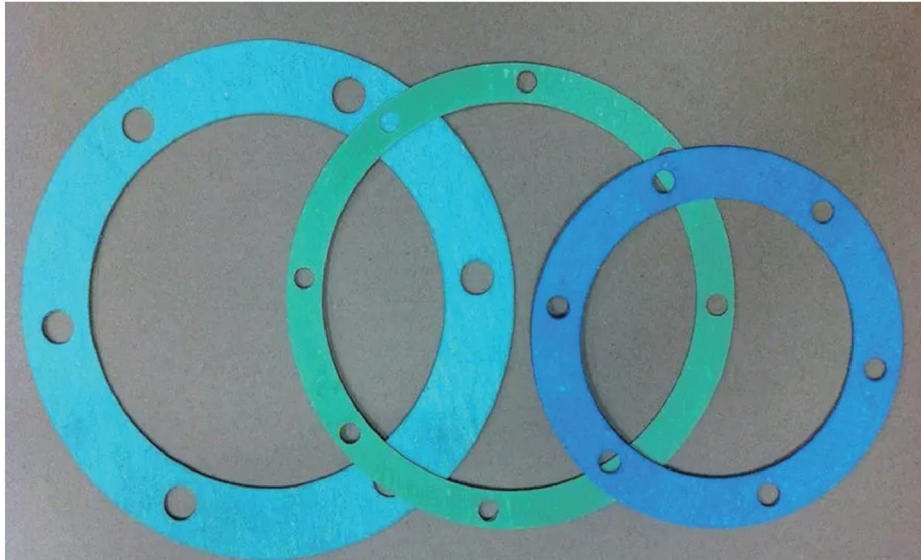


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PRODUCT APPLICATION



Pulp



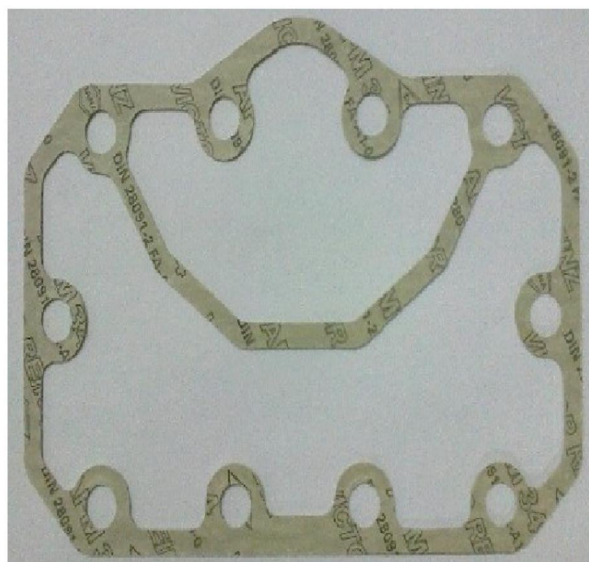
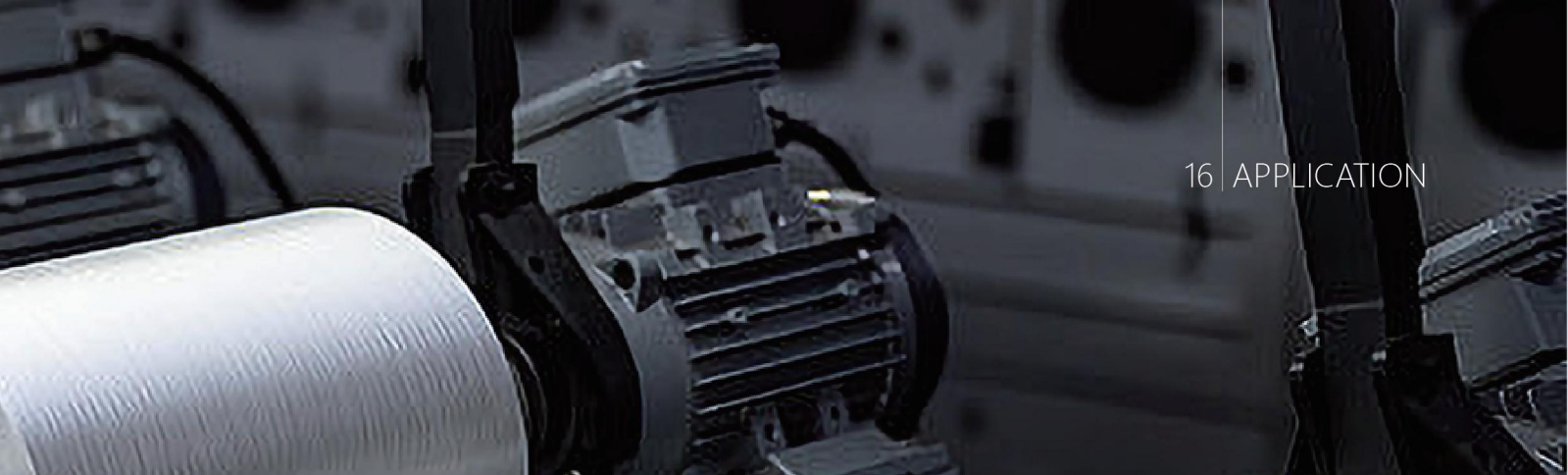
Yarn



Chopped Glass Fibre



Chopped Carbon Fibre



Acrylic Pulp



Aramid Chopped Fibre



Chopped Acrylic Fibre



Pre Oxidized Powder