

PTFE is a synthetic fluoropolymer that is used in various applications due to its unique properties, such as chemical resistance, high-temperature tolerance, and non-stick properties. PTFE is available in different forms, including granular, fine powder, and dispersion.

Product Overview

Product: PTFE Fine Powder Resin (For Fiber) PF-FE10 has excellent heat resistance, electrical insulation, and chemical permeability resistance.

Typical Applications: It is mainly used to make substitute PFA for the processing of thermoelectric heat exchanger tubes and has good welding performance.

Availability: It is packed in a sealed PVC bag, and loaded in water content proof paper barrel. The net weight is (20±0.1) kg per barrel.

TYPICAL PROPERTIES OF PTFE Fine Powder Resin (For Fiber) PF-FE10 (Data not for specification purposes)

Properties	Test Method	Unit	PF-FE10
Appearance			White loose powder, no impurities
Tensile Strength, MPa ≥	GB/T 1040.0. HG/T 2902	MPa ≥	25
Elongation at Break, % ≥	GB/T 1040.0. HG/T 2902	% ≥	300
Bulk Density, g/L		g/L	400±150
Average Particle Size, μm	HG/T 2901	μm	550±100
Extrusion Pressure (RR: 100:1), MPa		MPa	15-40
Melting Peak Temperature, °C	HG/T 2902	°C	321~325
Water Content, ≤		≤	0.03
Standard Specific Gravity	GB/T 1033.1		2.140~2.168
Thermal Instability Index			50
Appearance			White loose powder, no impurities

CERTIFICATION

- SGS Certification
- ROHS Certification
- REACH Certification
- SVHC Certification
- EU Approved

PRODUCT DESCRIPTION

PTFE Fine Powder Resin (For Fiber) PF-FE10, is a type of polytetrafluoroethylene (PTFE) powder designed for use in the production of PTFE fibers. The powder has unique properties, including low melt viscosity, high tensile strength, and excellent dimensional stability, making it ideal for use in high-performance fabrics and industrial applications. The product is highly resistant to chemical attack and has a low coefficient of friction, ensuring consistent quality and performance.

PROCESSING

PTFE Fine Powder Resin (For Fiber) PF-FE10 is produced through a suspension polymerization process. In this process, PTFE resin is suspended in a liquid and then subjected to a high-energy shearing process. This causes the resin particles to break down into much smaller particles, resulting in a fine powder. The powder is then dried and packaged for use in various applications.

STORAGE AND HANDLING

Not classified as hazardous for transport. During transportation and storage, avoid heavy shaking, high temperatures, and below 0°C. After three months, shaking the drum every week to avoid a deposition.

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