XEON PTFE MICROPOWDER F4

Description

Xeon F4 is a polytetrafluoroethylene (PTFE) ultra fine powder, with a primary particle size of 0.2 microns.

The primary particles are agglomerated to form loose aggregates of 3 to 5 microns, which can be broken down in high energy mills. Xeon F4 has a low molecular weight and is not suitable as molding or extrusion PTFE resin.

Xeon F4 is packaged in 15 kg fiberboard drums, with an internal polyethylene liner.

Applications

Xeon F4 is primarily intended to be used as an additive to improve the resistance to scratch and abrasion of inks and coatings, due to its small average particle size. It is usually used in mixture with polyethylene waxes.

The recommended treat rate is 0.2 to 0.8%. Xeon F4 is well suited for can coating, especially with varnish coverage of 3 to 4 g/m2.

Xeon F4 is also recommended in lubricants to reduce friction and wear, improve load-carrying characteristics. Due to its high specific surface area, it has a good oil absorption and is an efficient as a thickener in high temperature greases.

Typical characteristics

Appearance/color	White, free flowing, powder	Xeon Standard
Average bulk density	300 g/l	ASTM D4895
Average apparent particle size (d50)	4 μ	Laser Diffraction
Particle size distribution (d10; d90)	0.7 – 7.3 μ	Laser Diffraction
Melting point	325 °C	ASTM D4894
Specific surface area	5 – 10 m^2/g	ASTM D4567

Packaging

15 kilograms per barrel. Each pallet contains 27 barrels for convenient transportation and storage.

Safety warning

Inhaling evaporates can cause harm! Please carefully read the Material Safety Data Sheet (MSDS) before using F4. This sheet can be obtained from the supplier. F4 packaging must be opened and used in a well-ventilated place. Inhaling evaporates generated during high-temperature processing or smoking contaminated tobacco can lead to flu-like symptoms (chills, high fever, sore throat). High-temperature processing must be carried out in a fully ventilated working environment. Do not smoke tobacco contaminated by F4.