

Product Information

PTFE Micro powder AW-313

The product

Fluoro additive AW-313 is a white PTFE powder specialized for use as an additive to impart low surface energy and other fluoropolymer attributes.

AW-313 is well suited for added in inks and coatings where a narrow particle size distribution is desired. It could improve lubricity and wear resistance when with plastics and rubbers. Added to lubricants, it can enhance performance under severe conditions. AW-313 can be used at temperature from -190°C to 250°C(-310°F to 480°F).

AW-313 is generally designed to used as an additive, although it can also be used alone as a dry lubricant. It is unsuitable to be used as a molding or extrusion resin to replace for any of the

high molecular weight PTFE resin.

AW-313 is inert to all chemicals and solvent. It is a good electrical insulator, does not absorb water, and is highly resistant to weathering.

Applications

AW-313 is used as an additive in plastics to improve nonstick performance and enhance frictional characteristics. The tendency for surface blemishes to appear in injection molded thermoplastic parts is minimize with AW-313. (at up to about 20% by weight). Plastics can be benefit in this manner including polycarbonates, polyacetals, polyamides, polyesters, polysulfides and polyfulfones.

Property	Test method	Unit	Specification	Typical value
Average Bulk Density	ASTM D4895	g/l	225-600	425
Melting Point	ASTM D4894	°C	325 ± 5	325 ± 5
Average Particle Size	Laser Diffraction	um	8-20	D10<3, D50=12, D90<25
Specific Surface Area	ASTM D4567	m2/g	0.8-4.5	1.5~3
Whiteness	Company standard	-	White	White

Packing:

AW-313 is packaged in 25-kg/carton. 9,18,27 cartons are packaged on one pallet for easy shipping, handling and storage.

Transportation& Storage:

Before using AW-313 please read the Material Safety Data Sheet carefully.

Open and use containers only in well-ventilated areas using local exhaust ventilation. Vapor and fumes liberated during hot processing, or from smoking tobacco or cigarettes contaminated with

AW-313,may cause flu-like symptoms(chill, fever, sore throat).Vapor and fumes liberated during hot

processing should be exhausted completely from work area. Contamination of tobacco with AW-313 should be avoided.

Mixtures with some finely divided metals, such as magnesium or aluminum, can be flammable or explosive under some conditions.