

# Product Information

## PTFE Micro powder AW-322

### The product

Fluoro additive AW-322 is a white PTFE powder specialized for use as an additive to impart low surface energy and other fluoropolymer attributes. AW-322 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-322 can be used at temperature from -190°C to 250°C(-310°F to 480°F).

AW-322 is generally designed to used as an additive, although it can also be used alone as a dry lubricants. It is unsuitable to be used as a molding or extrusion resin to replace for any of the high molecular weight PTFE resin.

AW-322 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-322 is used as an additive in printing inks to improve certain properties, such as rub resistance, slip, surface smoothness and gloss. It can also reduce the “blocking”. Typically, AW-322 is used in combination with polyethylene waxes to get the property modification. Due to its small particle size and narrow particle size distribution, AW-322 can be use in a variety of coating system to improve nonstick, anti friction, corrosion inhibition properties. It can also reduce the friction coefficient and increase the rub resistance.

Plastics and elastomers containing AW-322 have shown improved lubricity and reduced friction and wear. Typical loadings of 5-20% by weight were used.

Property	Test method	Unit	Specification	Typical value
Average Bulk Density	ASTM D4895	g/l	225-600	450
Melting Point	ASTM D4894	°C	325 ± 5	325 ± 5
Average Particle Size	Laser Diffraction	um	2-6	D10<1, D50=3, D90<9
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. Six or Nine cartons are packaged on one pallet for easy shipping, handling and storage.

### Transportation& Storage:

Before using AW-322 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-322, 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-322 should be avoided.

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