



*product information*

**Fluon<sup>®</sup> PTFE Micropowder TL-10 Typical Properties**

**PRODUCT DESCRIPTION**

Fluon<sup>®</sup> TL-10 is a white, fine-milled PTFE (polytetrafluoroethylene) micropowder. Due to its small particle size, rounded particle shape and intermediate hardness, Fluon<sup>®</sup> TL-10 is ideal for use as an additive in printing inks. It may also be used in rubber and plastic compounding. As a component of coatings, Fluon<sup>®</sup> TL-10 imparts low friction and non-stick surface characteristics.

**TYPICAL PROPERTIES**

Property	Test Method	Units	Typical Value
Bulk Density	ASTM D-4894	grams/liter	420
Particle Size Distribution – Low Shear	Laser Diffraction	Average (µm) <10% (µm) <90% (µm)	4 2 8
Particle Size	Hegman ASTM D-1210	Microns	3
Surface Area	AGC Chemicals Americas	meter <sup>2</sup> /gram	3.0
Moisture Content	ASTM D-4019	%	< 0.1
Particle Type	AGC Chemicals Americas	Slight irregular shape, intermediate hardness	
FDA Compliance	CFR Number	CFR 175.300	
Melting Point	ASTM D-3417	°F (°C)	613 (325)
Volatile Content	AGC Chemicals Americas	%	0.65
Particle Smear Sensitivity	AGC Chemicals Americas	Minimal breakdown upon mixing	
Oil Absorption	ASTM D-1438	lb oil / 100 lb	51
Oil Penetrometer	ASTM D-1403	1 / 10 mm	100

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### HANDLING PRECAUTIONS

Heating Fluon® products in excess of 750°F (399°C) can produce toxic fumes. It is, therefore, necessary to provide local exhaust ventilation in areas where Fluon® products are exposed to high temperatures. Avoid breathing fumes or contaminating smoking tobacco with fumes, powder, or dust.

Thermal decomposition of this product will generate hydrogen fluoride, which is corrosive. Corrosion resistance materials are required for prolonged contact with molten resin.

### SAFE HANDLING INFORMATION

A summary of the hazards, as defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200 for this product are:

**Physical hazards:** None

**Health hazards:** None

FOR ADDITIONAL INFORMATION AND HANDLING INSTRUCTIONS READ AGC CHEMICALS AMERICAS, INC. MATERIAL SAFETY DATA SHEET.

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