

Fluon[®] PTFE Micropowder TL – 1719 Typical Properties

PRODUCT DESCRIPTION

Fluon[®] TL-171E is a white PTFE (polytetrafluoroethylene) micropowder which is easy to disperse in a wide range of liquids. The reduced total surface areas of Fluon[®] TL-171E minimizes viscosity increase during mixing. The particles are soft, however, and retain good film forming capability.

This combination of properties makes Fluon[®] TL-171E very useful in coating formulations. Fluon[®] TL-171E is suitable for use in food contact applications.

TYPICAL PROPERTIES

Property	Test Method	Units	Typical Value
Bulk Density	ASTM D-4894	grams/liter	500
Particle Size – Low Shear	Laser Diffraction	Average (µm)	9 5 16
Particle Size	Hegman ASTM D-1210	microns	4
Surface Area	AGC Chemicals Americas	meter ² /gram	2.6
Moisture Content	ASTM D-4019	%	< 0.1
Particle Type	AGC Chemicals Americas	Soft, round sub-micron particles in clusters	
FDA Compliance	CFR Number	CFR 175.300, CFR 177.1550	
Melting Point	ASTM D-3417	°F (°C)	628 (331)
Volatile Content	AGC Chemicals Americas	%	0.06
Particle Smear Sensitivity	AGC Chemicals Americas	Cluster break-up to smaller size upon mixing	
Oil Absorption	ASTM D-1438	lb oil / 100 lb	45
Oil Penetrometer	ASTM D-1403	1 / 10 mm	99

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The process to make TL-171E does not use ammonium salts of perfluorooctanoic acid (PFOA).

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.

For more information and samples contact

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