SHAMROCK
Particle Innovation • Surface Solutions

Lubricants and Grease

FLUORO GT 105 PTFE Micropowder

In our efforts to constantly improve, Shamrock has been working to develop PTFE micropowders for the grease and lubricant market. We have been determining thickening efficiency with the cone penetrometer using a 50/50 mixture in a PAO6 base oil and wear resistance according to ASTM D 2266 with the 4 Ball Tester in order to provide the industry with PTFE data that relates to grease properties.

Product Description

FLUORO GT 105 is a free-flowing, easily dispersed PTFE micropowder that provides anti-wear properties.

Applications

FLUORO GT 105 is suggested for grease applications in which a 5 micron particle size may improve properties that relate to specific base oils and formulations. The 4-ball test may not be as meaningful as other wear test methods at this particle size.

Typical Properties	Method	Typical Values	Units
- Appearance:	Visual	**White Odorless Powder**	
- Specific Gravity:	ASTM D 2320	**2.15**	g/cm³
- Particle Size Mean Value:	QSOP 5	**~5**	µm
- DSC Melting Point:	ASTM D 4591 (PTFE)	**620 / 328**	°F/°C
- Cone Penetration:	QSOP 182	**400 - 475**	1/10 mm
- 4 Ball Wear Scar:	ASTM D 2266	**0.55 – 0.70**	mm

Regulatory Status

All components of this product are listed on the TSCA (USA) DSL(Canada), ENCS(Japan) ECL(Korea) PICCS(Philippines), AICS (Australia) and New Zealand Chemical inventory, and chemical substance inventories. Its monomers are listed on the EINECS inventory.

Shipping and Handling

Call Shamrock Customer Service at (973) 242 2999.

Safety

Please read Safety Data Sheet (SDS) before using.

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