

## CHRISTO-LUBE® MCG 109

CHRISTO-LUBE® MCG 109 is a fully fluorinated grease thickened with PTFE which operates under extreme temperature conditions, has outstanding stability with oxygen and excellent compatibility with metals, plastics and elastomers. This medium consistency fluorinated lubricant is especially useful in lubricating bearings, gears and actuators typically found in the semiconductor industry. CHRISTO-LUBE® MCG 109 is clean room compatible and performs exceptionally well under extreme vacuum environments.

BASE OIL CHARACTERISTICS		TYPICAL VALUE *
<b>Type</b>		PFPE
<b>Temperature Service Range (°C)</b>		-65 to 260
<b>Flash Point (°C) (ASTM D92)</b>		None
<b>Vapor Pressure (torr) (Knudson)</b>	20°C	1.5 x 10 <sup>-13</sup>
	100°C	2.8 x 10 <sup>-9</sup>
	200°C	3.4 x 10 <sup>-6</sup>
GREASE CHARACTERISTICS		
<b>Thickener</b>		PTFE
<b>Color</b>		White
<b>Appearance</b>		Smooth
<b>NLGI Grade</b>		2
<b>Penetration (ASTM D217 / DIN 51804-T1)</b>	Unworked	265-295
	Worked	60X 265-295
<b>Oil Separation (ASTM D6184)</b>	24h at 149°C	10% max.
<b>Evaporation (CTM-1)</b>	24h at 149°C	1% max.
<b>Evaporation (CTM-1)</b>	24h at 177°C	1% max.
<b>Water Washout (ASTM D1264 / DIN 51807-T2)</b>	60 min at 79°C	0.26%
<b>Four Ball Wear (ASTM D2266 / DIN 51350-T5)</b>	60 min 1200 RPM 75°C 40kg <sub>f</sub>	0.572mm
	Dynamic Coefficient of Friction (steel on steel)	0.079
<b>Specific Gravity (CTM-2)</b>	25°C	1.918

\*The values stated in this Product Data Sheet are Typical Values and **must not** be used as QC Specifications for this product. Please contact the Global Technical Services department for QC specifications for this product.