



**Innovation and Experience at Work**

## UltraSil 809

UltraSil 809 is an effective silicone dampening grease formulated with polytetrafluoroethylene solids for added lubricity. This grease is designed for plastic on plastic or plastic on metal applications and can be recommended for lightly loaded metal on metal applications. It responds well to application to high speed automated equipment and remains an effective lubricant when challenged by particulate contamination.

BASE OIL CHARACTERISTICS		TYPICAL VALUE *	
<b>Type</b>		Silicone	
<b>Temperature Service Range (°C)</b>		-40 to 150	
<b>Neutralization Number</b> (ASTM D664)		0.03 mgKOH/g	
GREASE CHARACTERISTICS		TYPICAL VALUE *	
<b>Thickener</b>		PTFE	
<b>Color</b>		White	
<b>Appearance</b>		Smooth	
<b>NLGI Grade</b>		0	
<b>Penetration</b> (ASTM D217 / DIN 51804-T1)	Unworked	350-370	
	Worked	10,000X 412	
<b>Dropping Point (°C)</b> (ASTM D2265 / DIN ISO 2176)		200 min.	
<b>Oil Separation</b> (ASTM D6184)	24h at 100°C	0.5% max.	
<b>Evaporation</b> (CTM-1)	24h at 100°C	1% max.	
<b>Copper Corrosion</b> (ASTM D130 / DIN 51811)	24h at 100°C	1a	
<b>Water Washout</b> (ASTM D1264 / DIN 51807-T2)	60 min at 25°C	13.1%	
<b>Apparent Viscosity</b> (Brookfield Viscometer T-C spindle)	1 rpm -40°C	1,200,000 cP	
	20 rpm 25°C	95,200 cP	
<b>Four Ball Wear</b> (ASTM D2266 / DIN 51350-T5)	60 min 1200 RPM 75°C 40kg <sub>f</sub>	2.56mm	
	Dynamic Coefficient of Friction (steel on steel)	0.36	
<b>Oxidation Stability</b> (ASTM D942 / DIN 51808)	100h at 100°C	35 kPa	
<b>Low Temperature Torque</b> (ASTM D1478)	-40°C	Start	332 g·cm
		Run 10 min	228 g·cm
		Run 60 min	189 g·cm
<b>Roll Stability</b> (ASTM D1831)	2h at ambient	2.33%	

**Engineered Custom Lubricants**

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3851 Exchange Ave. • Aurora, IL 60504 • T: 630.449.5000 • F: 630.585.0050 • E: [customerservice@eclube.com](mailto:customerservice@eclube.com) • [www.eclube.com](http://www.eclube.com)

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