



Innovation and Experience at Work

IsoGel 4202

IsoGel 4202 is a lithium stearate thickened semi-fluid grease fortified with 25% PTFE. It meets the formulation requirements for MIL-L-46150. It is designed for use in automatic weapons systems that require high rates of fire. It is also an excellent lubricant for small or leaky gearboxes and small components where the lubricant needs to migrate but still provide a tenacious film. It is also an excellent product for extreme low temperature applications. This grease has high extreme pressure protection reducing the effects of shock loading.

BASE OIL CHARACTERISTICS		TYPICAL VALUE *	
Type		Synthetic Ester	
Temperature Service Range (°C)		-54 – 127	
GREASE CHARACTERISTICS		TYPICAL VALUE *	
Thickener		Lithium	
Color		Off White	
Appearance		Semi-Fluid	
Evaporation (CTM-1)	8h at 149°C	3% max.	
Copper Corrosion (ASTM D4048)	24h at 100°C	1b max.	
Apparent Viscosity (ASTM D1092)	-54°C at 25 s ⁻¹	1200 Poise max.	
	-54°C at 100 s ⁻¹	800 Poise max.	
Four Ball Wear (ASTM D2266)	60 min 600 RPM 121°C 50kg _f	0.5mm max.	
Coefficient of Friction (ASTM D2266)		0.13 max.	
Oxidation Stability (ASTM D942)	6h at 149°C	10 psi max.	
Low Temperature Torque (ASTM D1478)	-54°C	Start	741 g-cm
		Run 10 min	449 g-cm
		Run 60 min	134 g-cm
Four Ball Extreme Pressure (ASTM D2596)	Load Wear Index		70 min.
	Last Non-Seizure Load (scar)		100 kg (0.46mm)
	Last Seizure Load (scar)		400 kg (2.37mm)
	Weld Load		500 kg

*The typical values reported on this data sheet should not be used for writing specifications or creating drawings. Please consult ECL for assistance in preparing a specification for this product. Refer to our product Material Safety Data Sheet for detailed safety information.

Engineered Custom Lubricants

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