



Innovation and Experience at Work

IsoGel 46000

IsoGel 46000 is a lithium stearate thickened semi-fluid grease. It meets the formulation requirements for MIL-L-46000C. It is designed for use in automatic weapons systems across a broad temperature range. 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.

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
Penetration (ASTM D217)	30 Gram Cone	350-385
Neutralization Number (ASTM D664)		3.2 mgKOH/g max.
Humidity Cabinet (ASTM D1748)	400h	Pass
Falex Load Carrying	Per Mil-L-46000C Conditions	1500 lb _f for 1min.
Evaporation (CTM-1)	8h at 149°C	6% max.
Load Carrying Capacity (FTM 6503)	Incipient Seizure Load	63 kg _f min.
	Weld Point	141 kg _f min.
Copper Corrosion (ASTM D4048)	24h at 100°C	1b max.
Four Ball Wear (ASTM D2266)	60 min 600 RPM 120°C 50kg _f	0.5mm max.
Oxidation Stability (ASTM D942)	6h at 149°C	10 psi max.

*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 ISO/TS16949:2009 • Registered QMS
3851 Exchange Ave. • Aurora, IL 60504 • T: 630.449.5000 • F: 630.585.0050 • E: customerservice@ecllube.com • www.ecllube.com

DISCLAIMER: Since we cannot anticipate or control the many different conditions under which this information and our product may be used, we cannot guarantee the applicability of this information or the suitability of our product in any individual situation. For the same reason, the product discussed is sold without warranty expressed or implied. Please contact Engineered Custom Lubricants for assistance and recommendations prior to writing or releasing any engineering specifications. ECLI Products, LLC, owns and does business as Engineered Custom Lubricants and Lubrication Technology.