

CHRISTO-LUBE® MCG 111

CHRISTO-LUBE® MCG 111 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 valve and regulator components where non-reactivity with harsh chemicals, fuels and solvents is an important factor. CHRISTO-LUBE® MCG 111 is qualified to MIL-PRF-27617G Types I, II & III and is also registered with NSF as an H-1 lubricant meaning it is acceptable for use in or around food processing equipment. It is designed for use in all food processing operations including mixing, stirring, baking, frying, cooking, freezing, cleansing, packaging, canning and bottling. Cage Code:0DRK3



This product is registered H1 by the NSF (135016)

BASE OIL CHARACTERISTICS		TYPICAL VALUE *	
Type		PFPE	
Temperature Service Range (°C)		-60 to 260	
Flash Point (°C) (ASTM D92)		None	
Vapor Pressure (torr) (Knudson)	20°C	5 x 10 ⁻⁶	
	100°C	5 x 10 ⁻⁵	
	200°C	3 x 10 ⁻⁴	
GREASE CHARACTERISTICS			
Thickener		PTFE	
Color		White	
Appearance		Smooth	
NLGI Grade		1.5	
Penetration (ASTM D217 / DIN 51804-T1)	Unworked	290-310	
	Worked	60X 290-310	
Oil Separation (ASTM D6184)	24h at 149°C	10% max.	
Evaporation (CTM-1)	24h at 149°C	3% max.	
Evaporation (CTM-1)	24h at 177°C	0.53%	
Water Washout (ASTM D1264 / DIN 51807-T2)	60 min at 79°C	1.22%	
Four Ball Wear (ASTM D2266 / DIN 51350-T5)	60 min 1200 RPM 75°C 40kg _r	1.36mm	
	Dynamic Coefficient of Friction (steel on steel)	0.076	
Specific Gravity (CTM-2)	25°C	1.905	
Low Temperature Torque (ASTM D1478)	-40°C	Start	324 g-cm
		Run 60 min	147 g-cm

Engineered Custom Lubricants

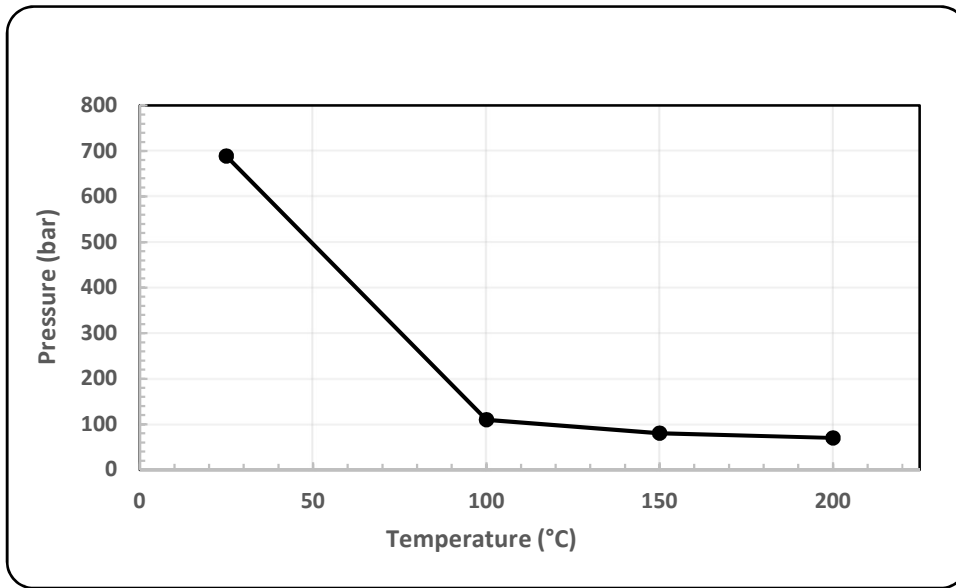
IATF 16949 • Registered QMS

3851 Exchange Ave. • Aurora, IL 60504 • T: 630.449.5000 • F: 630.585.0050 • E: eclusa_customer@quakerhoughton.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.

CHRISTO-LUBE® MCG 111

Oxygen Impact Pressure (BAM)		bar	psi
	25°C	689	10,000
	60°C	400	5800
	100°C	110	1595
	100°C to 150°C	80	1160
	150°C to 200°C	70	1015
Compatibility With Gaseous Oxygen	Up to working pressure of	346	5000
Heat of Combustion	1049±39 cal/g		
Auto Ignition Temperature	470°C		



Engineered Custom Lubricants

IATF 16949 • Registered QMS

3851 Exchange Ave. • Aurora, IL 60504 • T: 630.449.5000 • F: 630.585.0050 • E: eclusa_customer@quakerhoughton.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.



A QUAKER HOUGHTON COMPANY

Innovation and Experience at Work

Product Data Sheet

*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.

Engineered Custom Lubricants

IATF 16949 • Registered QMS

3851 Exchange Ave. • Aurora, IL 60504 • T: 630.449.5000 • F: 630.585.0050 • E: eclusa_customer@quakerhoughton.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.