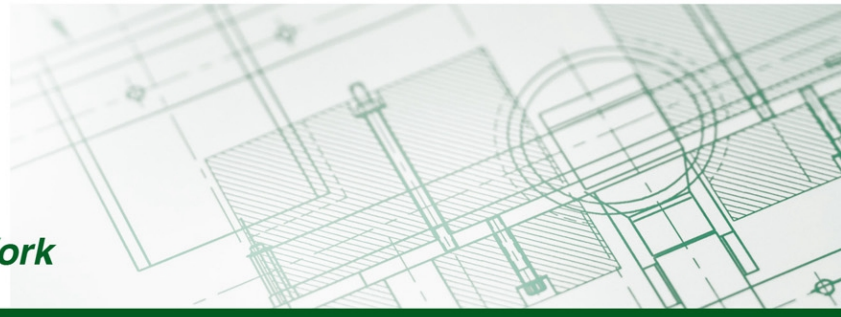


CHRISTO-LUBE® 5170A

CHRISTO-LUBE® 5170A is CHRISTO-LUBE® 411A cut with non-combustible fluorinated solvent. When this material is applied, the solvent evaporates and leaves behind a film of CHRISTO-LUBE® 411A. An ultraviolet dye is dispersed in this material to make the residual film of CHRISTO-LUBE® 411A more visible. Details of CHRISTO-LUBE® 411A are included below:

The base grease CHRISTO-LUBE® 411A is synthetic grease made from polyfluoropolyether (PFPE) fluid thickened with polytetrafluoroethylene (PTFE) polymer. This grease has excellent low temperature properties and is inert to oxygen and other aggressive chemicals. The PFPE fluid has extremely low surface tension and this gives CHRISTO-LUBE® 411A the ability to work in applications where other lubricants fail due to lubricant starvation. The fully fluorinated chemistry is completely compatible with a vast majority of plastics and elastomers.

BASE OIL CHARACTERISTICS		TYPICAL VALUE *	
Type		PFPE	
Temperature Service Range (°C)		-60 to 200	
Flash Point (°C) (ASTM D92)		None	
GREASE CHARACTERISTICS		TYPICAL VALUE *	
Thickener		PTFE	
Color		White	
Appearance		Smooth	
NLGI Grade		2	
Penetration (ASTM D217 / DIN 51804-T1)	Unworked	250 min.	
		60X	265-295
	Worked	10,000X	261
		100,000X	249
Dropping Point (°C) (ASTM D2265 / DIN ISO 2176)		260 min.	
Oil Separation (ASTM D6184)	24h at 100°C	10% max.	
Oil Separation (ASTM D1742)	24h at 25°C and 1.72 kPa	1.9%	
Evaporation (CTM-1)	24h at 100°C	3% max.	
Water Washout (ASTM D1264 / DIN 51807-T2)	60 min at 79°C	0.14%	
Copper Corrosion (ASTM D130 / DIN 51811)	24h at 100°C	1b max.	



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GREASE CHARACTERISTICS		TYPICAL VALUE *	
Apparent Viscosity (Brookfield Viscometer T-C spindle, 1 rpm)	-40°C	2,260,000 cP	
Four Ball Wear (ASTM D2266 / DIN 51350-T5)	60 min 1200 RPM 75°C 40kg _f	0.78mm	
Specific Gravity (CTM-2)	25°C	1.96	
Oxidation Stability (ASTM D942 / DIN 51808)	168h at 100°C	0 kPa	
Low Temperature Torque (ASTM D1478)	-40°C	Start	449 g·cm
		Run 10 min	332 g·cm
		Run 60 min	319 g·cm

Engineered Custom Lubricants

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