

ROYCO® 308CA

GENERAL PURPOSE, WATER-DISPLACING LUBRICATING OIL AND PRESERVATIVE

ROYCO® 308CA is a highly refined mineral oil based lubricating oil blended with modern additives for rust and corrosion inhibition and improved water displacing characteristics. ROYCO® 308CA is designated as a P-9 rust inhibitor under Mil-STD-2073-1C

APPLICATIONS

ROYCO® 308CA was developed for the lubrication and protection against corrosion of small arms and automatic weapons however, it may be used as a general-purpose lubricant in all applications where water displacement, water resistance, corrosion protection and/or low temperature performance is required. ROYCO® 308CA is an excellent lubricant for locks, hinges, electric motors, chains, and fishing, hunting and camping equipment.

FEATURES AND BENEFITS

Features

- **Corrosion and Rust additive package**

Benefits

- **Excellent ferrous metal protection even in the presence of water and moisture.**
- **Displaces water**

APPROVALS AND SPECIFICATIONS

ROYCO® 308CA meets all requirements and is qualified to Military Specification: MIL-PRF-32033(2), which supersedes and replaces VV-L-800C. Military Symbol PL-S, NATO CODE O-190

PACKAGING

ROYCO® 308CA is available in 5-gallon pails, and 55-gallon drums. Other packages may be available on special request.

LIMITATIONS

ROYCO® 308CA is not recommended as a lubricant at temperatures below -45°C. For operation at extreme low temperatures ROYCO® 308CA is advised. Do not use this oil in the processing or handling of food or allow product to contact food.



TYPICAL PROPERTIES

PROPERTIES	TEST METHOD	ROYCO® 308CA
Pour Point, °C (°F)	ASTM D97	-60 (<-70)
Flash Point, COC, °C (°F)	ASTM D92	148
Kinematic Viscosity, cSt		
@ 40°C (104°F)		11.16
@ -40°C (-40°F)	ASTM D445	4,137
@ -54°C (-65°F)		34,199
Copper Strip Corrosion, 3 hr, 100°C (212°F)	ASTM D130	1B
Precipitation Number	ASTM D91	0.00
Galvanic Corrosion	FTM 5322	PASS
Rust Protection, 110°F, 168 hrs	Spec.	PASS
Film Characteristics, even coat	Spec.	PASS
Removability	Spec.	PASS
Water Displacement / water stability	FTM 3007	PASS
4-Ball Wear, 40kg, 167°F, wear-scar diameter, mm	ASTM D4172	0.67
Evaporation, 100°C/22 hrs, % wt. loss	ASTM D972	17.2
Specific Gravity, 15.6°C	ASTM D4052	0.889
Oxidation-Corrosion Stability, 121°C (250° F), 168 hours		
Copper, mg/cm ²		0.006
Aluminum, mg/cm ²		0.002
Steel, mg/cm ²		0.0013
Magnesium, mg/cm ²	FTM 5308	0.002
Cadmium, mg/cm ²		0.011
Viscosity Stability, Change at 40°C, %		6.6
Neutralization number change		0.12
Corrosion, pitting, etching		None



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