

ROYCO[®] 308CA

GENERAL PURPOSE, WATER-DISPLACING
LUBRICATING OIL AND PRESERVATIVE

Description

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 363** is advised. Do not use this oil in the processing or handling of food or allow product to contact food.

Typical Properties

PROPERTY	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		0.013
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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