

ROYCO[®] 363

GENERAL PURPOSE LOW TEMPERATURE LUBRICATING OIL

Description

ROYCO 363 is a highly refined mineral oil based lubricant formulated with modern additives to provide oxidation and corrosion protection, low temperature fluidity, rust inhibition, and good resistance to evaporation.

Applications

ROYCO 363 is recommended for the general-purpose lubrication of instrument and airframe components including bearings, actuators, hinges and latches on both military and civilian aircraft. It is suitable for use over the temperature range from -54°C to 120°C.

Features and Benefits

FEATURES

Rust, corrosion and oxidation additives
Resistant to galvanic corrosion (bi-metallic)
Highly refined mineral oil-based
Good evaporation resistance

BENEFITS

A general-purpose lubricant usable in temperatures from -54°C to 120°C

Specifications

ROYCO 363 meets all requirements of and is qualified to MILSPEC: MIL-PRF-7870D identified as NATO Code O-142 .

Typical Properties

PROPERTY	TEST METHOD	ROYCO® 363
Kinematic Viscosity, cSt (mm/s ²)	ASTM D445	
@ 38°C		10.15
@ -40°C		3304
Flash Point, °C (°F)	ASTM D92	146 (295)
Pour Point, °C (°F)	ASTM D97	-63 (-81)
Precipitation Number (mL)	ASTM D91	0.0
Acid Number, mg KOH/g	ASTM D974	0.2
Low Temperature Stability, -54°C, 72 hours	FTM 3458	Pass
Gravity, API	ASTM D4052	28.0
Density, pounds per gallon		7.387
Evaporation, 100°C, 22 hrs, %	ASTM D972	11.5
Oxidation Corrosion, 121°C, 168 hrs.	ASTM D4636	
Metals Weight Change, mg/cm ²		
Copper		+0.04
Aluminum		+0.03
Iron		+0.03
Magnesium		+0.03
Cadmium		+0.03
Viscosity change, %		7.2
Acid Number change, mq KOH/g		0.10
Insolubles, mg/100 ml		Pass

Limitations

ROYCO 363 has limited use at high temperatures - unless provisions are made for frequent re-lubrication. Where low volatility, and higher temperatures are required, **ROYCO 885** is recommended.

Packaging

ROYCO 363 is available in 5-gallon pails and 55-gallon drums. Other package sizes may be available on special request.

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Anderol Specialty Lubricants
a division of Chemtura Corporation
215 Merry Lane
East Hanover, New Jersey 07936
Technical Service +1.973.887.7410
Customer Service +1.203.573.4595
Fax +1.203.573.2324
info-anderol@chemtura.com
www.anderol.com