

ROYCO® 363

GENERAL PURPOSE LOW TEMPERATURE LUBRICATING OIL

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**

APPROVALS AND SPECIFICATIONS

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

PACKAGING

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

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® 363 is recommended.



TYPICAL PROPERTIES

PROPERTIES	TEST METHOD	ROYCO® 363
Kinematic Viscosity, cSt (mm/s²)		
@ 38°C	ASTM D445	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.		
Metals Weight Change, mg/cm²		
Copper		+0.04
Aluminum		+0.03
Iron	ASTM D4636	+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



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North America

+1.833.LANXESS
customer.care@lanxess.com

Europe, Middle East & Africa

+44.161.875.3800
emea.export@lanxess.com

South & Central America

+55.19.3522.5083
atendimento.cliente@lanxess.com

Asia Pacific

+86.21.6109.6666
Orders.apac@lanxess.com

