

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



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