

# ROYCO® 899

## ADVANCED SYNTHETIC TURBINE LUBRICANT CORROSION INHIBITED

**ROYCO® 899** is an advanced synthetic turbine engine oil designed for use in aircraft and stationary industrial gas turbine engines operating under severe conditions. This product is a 5 centistoke lubricant using state of the art additive technology and hindered Polyol ester base oils resulting in a technologically superior gas turbine lubricant that combines excellent thermal - oxidative and hydrolytic stability, antiwear protection, and rust and corrosion inhibition.

### APPLICATIONS

**ROYCO® 899** is especially recommended in critical gas turbine engine applications requiring rust and corrosion protection due to exposure to salt laden air, ambient tropical environments, or other industrial applications where exposure to chemical corrosives may be unavoidable.

**ROYCO® 899** is also recommended in certain transmission and gearbox applications where a Mil-PRF-23699 lubricant is recommended.

### FEATURES AND BENEFITS

#### Features

- **Rust and Corrosion Inhibited**
- **Improved Hydrolytic Stability**
- **Low Coking Improved Thermal-Oxidative Stability**
- **Low Phosphorus**
- **Wide Temperature Range Operation**

#### Benefits

- **May be used in high humidity environments such as over-sea operations**
- **Reduced maintenance costs**
- **Increase catalyst life**
- **Increased operational flexibility**

### APPROVALS & SPECIFICATIONS

**ROYCO® 899** is fully qualified to the current revision level of US Government MIL-SPEC:  
MIL-PRF-23699F Class C/I NATO code O-156 and O-152.



## PACKAGING

**ROYCO® 899** is available in 1 US Quart cans,  
5 US Gallon pails and 55 US Gallon drums.

PROPERTIES	TEST METHOD	ROYCO® 899
<b>Viscosity, cSt @ 100°C</b>	ASTM D445	4.94
<b>cSt @ 40°C</b>		25.6
<b>cSt @ -40°C</b>		11,455
<b>Viscosity Stability, 72 hrs @ -40°C, % Chg</b>	ASTM D2532	Pass
<b>Flash Point (COC),°C</b>	ASTM D92	254
<b>Pour Point, °C</b>	ASTM D97	-72
<b>Total Acid No., mg KOH/g</b>	SAE-ARP5088	0.63
<b>Evaporation Loss, %, 6-1/2 hrs @ 400°F</b>	ASTM D972	3.4
<b>Sediment Through 1.2 Micron Filter, mg/l</b>	FTM 3010	0.93
<b>Total Ash, mg/l</b>		0.24
<b>API Gravity</b>	ASTM D287	10.59
<b>Bearing Corrosion Test</b>	Para 3.4.2.1	Pass
<b>Foaming Test - Volume after 5 minutes blowing/Volume after 1 minute settling, ml</b>	ASTM D892	
<b>Sequence I</b>		20/0
<b>Sequence II</b>		10/0
<b>Sequence III</b>		15/0
<b>Thermal Stability, 96 hrs @ 274°C (525°F)</b>	FTM 3411	
<b>Viscosity Change @ 40°C, %</b>		0.97
<b>Total Acid No Change, mg KOH/g</b>		3.21
<b>Wt of Metal Change, mg/cm<sup>2</sup></b>		-0.67
<b>Corrosion &amp; Oxidation Stability, 72 hrs @ 204°C</b>	FTM 5308	
<b>Viscosity Change @ 40°C, %</b>		13.5
<b>Acid Number, Change mg KOH/g</b>		0.30
<b>Sediment, mg/100 ml oil</b>		0.96
<b>Metal Weight Change, mg/cm<sup>2</sup></b>		
<b>Steel</b>		0.016
<b>Silver</b>		0.00
<b>Aluminum</b>		0.04
<b>Magnesium</b>	0.021	
<b>Copper</b>		-0.066
<b>Trace Metal Contaminants</b>	Para 4.4.6	pass



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