

ANDEROL PRODUCT DATA SHEET

ROYCO® 899

ADVANCED SYNTHETIC TURBINE LUBRICANT
CORROSION INHIBITED

GENERAL INFORMATION

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 above all, rust and corrosion inhibition.

TYPICAL PROPERTIES:

PROPERTIES	ROYCO 899
Viscosity, cSt @ 100°C	5.00
cSt @ 40°C	25.8
cSt @ -40°C	11,400
Viscosity Stability, 72 hrs @ -40°C, % Chg	+1
Flash Point, °C	263
Pour Point, °C	-56
Total Acid No., mg KOH/g	0.3
Evaporation Loss, %, 6-1/2 hrs @ 400°F	4
Sediment Through 1.2 Micron Filter, mg/l	1
Total Ash, mg/l	0.1
Shear Stability, %	0.2
Density, lbs/gal @ 15.5°C	8.28
Bearing Corrosion Test	Pass
Foaming Test -	
Volume after 5 minutes blowing/Volume after 1 minute settling, ml	
Sequence I	10/0
Sequence II	5/0
Sequence III	10/0
AMS 3217/4 Rubber Swell, 72 hrs @ 400°F, %	+15
AMS 3217/I Rubber Swell, 72 hrs @ 58°F, %	+14
Thermal Stability, 96 hrs @ 274°C (525°F)	
Viscosity Change @ 100°F, %	+0.8
Total Acid No Change, mg KOH/g	+3.1
Wt of Metal Change, mg/cm ²	-0.1

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For more information please refer to the relevant Material Safety Data Sheet accompanying each product.

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TYPICAL PROPERTIES:

PROPERTIES	ROYCO 899
Corrosion & Oxidation Stability, 72 hrs @ 400°F	
Viscosity Change @ 40°C, %	+15
Acid Number, Change mg KOH/g	+0.2
Sediment, mg/100 ml oil	1
Metal Weight Change, mg/cm ²	
Steel	<0.02
Silver	<0.02
Aluminum	<0.02
Magnesium	<0.02
Copper	<0.02

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.

ADVANTAGES

- Rust and corrosion inhibited
- Low phosphorous for increased catalyst life
- Improved hydrolytic stability
- Low coking
- Improved thermal-oxidative stability
- Wide operating temperature range

APPROVALS

ROYCO 899 is fully qualified to the current revision level of US Government MIL-SPEC: MIL-PRF-23699F Grade C/I.

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ANDEROL Inc.
PO Box 518, 215 Merry Lane
East Hanover, New Jersey USA
Tel: 888-ANDEROL
Or Tel: (973) 887-7410
Fax: (973) 884-3825
E-mail: info@anderol.com