

ANDEROL PRODUCT DATA SHEET

ROYCO® 808

SYNTHETIC BASED LUBRICATING OIL
GAS TURBINE ENGINE

GENERAL INFORMATION

ROYCO 808 is a synthetic based lubricating oil for gas turbine engines requiring an oil with lower volatility and higher oxidative stability than is obtainable with conventional mineral based turbine oils. ROYCO 808 is formulated using the highest quality polyol ester base stocks compounded with additives to impart higher oxidation and corrosion resistance as well as enhanced antiwear protection. These benefits provide for exceptionally clean engine operation as well as extended drain intervals.

TYPICAL PROPERTIES:

PROPERTIES	ROYCO 808
1) Flash Point, °F	440
2) Total Acid Number, mg KOH/gm	
3) Trace Sediment, mg/200 ml	1.0
4) Evaporation, %, 400°F/6.5 hrs.	20
5) Kinematic Viscosity, cSt	
@ 100°C	3.4
@ 40°C	12.0
@ -54°C	11,150
6) Viscosity Stability, -54°C, %	0.1
7) Lead Corrosion, 325°F/1 hr g/m ²	0.01
8) Silver-Bronze Corrosion, 232°C	
Silver, gm/m ²	0.01
Bronze, gm/m ²	0.05
9) Ryder Gear Test	
Deposit Rating	0.8
Neutralization Number Change	2.0
Viscosity Change, 40oC, %	12.0
Load Carrying Capacity, kN/m	550
Oil Consumption, ml	50
10) Accelerated. Storage Stability, gm/m ²	
48 hrs, 110C	0.10
168 hrs, 110°C	0.50

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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 (continued):

PROPERTIES	ROYCO 808
11) Elastomer Compatibility	
NBR "H" Rubber, 158°F/168 hrs, %	27
"FA" Rubber, 347°F/72 hrs., % Swell	16
Tensile Strength Change, %	30
Elongation Change, %	3.5
Durometer Hardness Change, %	9.0
12) Static Foam Test—Foam Volume, ml / Foam Collapse Time, sec	30 / 15
13) C.R.C. Oxidation Corrosion Test, 200°C/96 hrs.	
Metal Coupon Weight Change, mg/cm ²	
Aluminum	0.01
Silver	0.10
Bronze	0.10
Iron	0.10
M-50 (steel)	0.00
Magnesium	0.01
Titanium	0.01
Viscosity Change, 40oC, %	5.0
Neutralization Number Change	0.9
Insolubles, mg/100 ml	0.1
14) Density, 15oC, gm/ml	0.952

APPLICATIONS

ROYCO 808 is intended for use in the lubrication of aircraft gas turbine and industrial turboprop engines - especially those operating in extreme cold or hot environs. ROYCO 808 is also recommended for use in engines, which require start-up after extended periods of "cold soak" such as aircraft, APU's and railroad industrial snow removal equipment. ROYCO 808 may also be used as a control fluid in stationary turbine applications.

COMPATABILITY

ROYCO 808 is not interchangeable with any other lubricating oils except those qualified under Mil- L-7808 or Mil-L-23699.

APPROVALS

ROYCO 808 meets all requirements and is qualified under MIL-SPEC: MIL-PRF-7808L Grade 3.

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