

ROYCO[®] 808

ADVANCED SYNTHETIC TURBINE ENGINE OIL

Description

ROYCO 808 is a synthetic base 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.

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.

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

Features and Benefits

Features	Benefits
Excellent Thermal and Oxidative Stability	Maintains engine efficiency; Extends engine life; Reduces carbon deposits and sludge formation.
Low pour point Excellent corrosion and wear protection	Eases start-up in low ambient temperatures. Extends component life; Reduces engine maintenance costs.
Chemically stable	Lowers oil consumption and losses due to evaporation

Approvals and Specifications

ROYCO 808 meets all requirements and is qualified under MIL-SPEC: MIL-PRF-7808L Grade 3, NATO Code O-148, UK Joint Service Designation OX-9.

PROPERTY	TEST METHOD	ROYCO® 808
Flash Point, °C (°F)	ASTM D92	220 (428)
Acid Number, mg KOH/gm	ASTM D664	0.13
Trace Sediment, mg/200 ml	Spec.	1.0
Evaporation Loss, 205°C, 6.5 hrs., %	ASTM D972B	22
Kinematic Viscosity, cSt		
@ 100°C		3.1
@ 40°C	ASTM D445	12.05
@ -51°C		7,675
Viscosity Stability, -51°C, 6 hrs., % change	ASTM D2532	0.2
Lead Corrosion, 325°F, 1 hour, g/m ²	FTM 5321	-0.02
Silver-Bronze Corrosion, 232°C		
Silver, g/m ²	FTM 5305	0.00
Bronze, g/m ²		0.13
Accelerated Storage Stability, g/m ²		
48 hrs, 110°C		-0.05
168 hrs, 110°C	Spec.	-1.4
Elastomer Compatibility		
NBR "H" Rubber, 70°C/168 hrs, %		32
"FA" Rubber, 175°C/72 hrs., % Swell	FTM 3604	8
Tensile Strength Change, %		-18
Elongation Change, %	FTM 3432	-21
Hardness Change, %		-8
Static Foam Test		
Foam Volume, ml		27
Foam Collapse Time, seconds	FTM 3213	10
Oxidation Corrosion Test, 200°C, 96 hrs.		
Metal Coupon Weight Change, mg/cm ²		
Aluminum		-0.05
Silver		-0.03
Bronze		0.05
Steel		0.01
M-50 (steel)	ASTM D4636	0.02
Magnesium		0.01
Titanium		0.01
Viscosity Change, 40°C, %		11.2
Acid Number Change, mg KOH/g		1.1
Insolubles, mg/100 ml		0.1
Density, 15°C, g/ml	Report	0.952

Packaging

ROYCO 808 is available in 55 gallon drums, 5 gallon pails, and twenty-four by 1-quart cans per carton.

The information contained herein relates to a specific Chemtura product and its use, and is based on information available as of the date hereof. Additional information relating to the product can be obtained from the pertinent Material Safety Data Sheets. Nothing in this Technical Data Sheet constitutes a term or condition of sale nor shall it take precedence over, supersede or modify or be construed to take precedence over, supersede or modify, any of Chemtura's standard or other terms and conditions of sale under which the product is sold by Chemtura. NOTHING IN THIS TECHNICAL DATA SHEET CONSTITUTES, NOR SHALL IT BE CONSTRUED TO CONSTITUTE, A REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, REGARDING THE PRODUCT'S CHARACTERISTICS, USE, QUALITY, SAFETY, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Nothing contained herein shall constitute permission or recommendation to practice any intellectual property without the permission of the owner. This product is sold only under terms and conditions agreed in writing by Chemtura and the respective buyer and the terms and conditions of such agreements shall in all cases prevail. ANDEROL, ROYCO, AOSyn and PQ and their corresponding logos are trademarks of Chemtura Corporation or one of its subsidiaries. Copyright (c) 2010 Chemtura Corporation. All rights reserved.



Anderol Specialty Lubricants
a division of Chemtura Corporation
215 Merry Lane
East Hanover, New Jersey 07936
Technical Service +1.973.887.7410
Customer Service +1.203.573.4595
Fax +1.203.573.2324
info-anderol@chemtura.com
www.anderol.com