

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

Excellent Thermal and Oxidative Stability

Low pour point

Excellent corrosion and wear protection

Chemically stable

Benefits

Maintains engine efficiency;

Extends engine life;

Reduces carbon deposits and sludge formation.

Eases start-up in low ambient temperatures.

Extends component life;

Reduces engine maintenance costs.

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.

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