

ROYCO® 885

LUBRICATING OIL AIRCRAFT INSTRUMENT

LOW VOLATILITY, SYNTHETIC BASE

ROYCO® 885 is a light, synthetic based general-purpose instrument lubricating oil-containing additives for oxidation and corrosion inhibition, antifoaming, and rust protection. This fluid has a very low volatility and exhibits exceptional low temperature performance as well.

APPLICATIONS

ROYCO® 885 is intended for use in aircraft instruments, electronic equipment and where low evaporation characterises are required for both low and high temperature applications, including where corrosion and oxidation resistance may be required. Uses include aircraft air cycle equipment as well as other instruments and accessories.

FEATURES AND BENEFITS

Features

- **Diester Based lubricant**
- **Oxidation, corrosion and rust inhibited**
- **Very low evaporation rate**

Benefits

- **Exceptional wide temperature application**
- **Protections metallic components**
- **Long-life lubrication and extended re-lubrication intervals**

APPROVALS & SPECIFICATIONS

ROYCO® 885 is qualified to and meets the requirements of MIL-PRF-6085D as well as Boeing Material Specification: BMS 3-7. Military Symbol OAI, NATO Code No. 0-147, UK Joint Service Designation OX-14.

ROYCO® 885 is designated as a P-17 contact rust preventive under MIL-STD-2073-1E.

LIMITATIONS

The synthetic based oils used in this product may soften certain paints and elastomers. Do not use with neoprene or natural rubber elastomers. Components should be evaluated for compatibility if there is any question.

PACKAGING

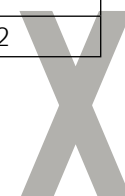
ROYCO® 885 is available in 5-gallon pails and 55-gallon drums. Other package sizes may be available on special request.



PACKAGING

ROYCO® 885 is available in 55 gallon drums, 5 gallon pails, and twenty-four by 1-quart cans per carton.

PROPERTIES	TEST METHOD	ROYCO® 885
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	ASTM D445	
@ 100°C		3.1
@ 40°C		12.05
@ -51°C		7,675
Viscosity Stability, -51°C, 6 hrs., % change	ASTM D2532	0.2
Lead Corrosion, 325°F, 1 hour, g/m2	FTM 5321	-0.02
Silver-Bronze Corrosion, 232°C	FTM 5305	
Silver, g/m ²		0.00
Bronze, g/m ²		0.13
Accelerated Storage Stability, g/m2	Spec	
48 hrs, 110°C		-0.05
168 hrs, 110°C		-1.4
Elastomer Compatibility	FTM 3604 FTM 3432	
NBR "H" Rubber, 70°C/168 hrs, %		32
"FA" Rubber, 175°C/72 hrs., % Swell		8
Tensile Strength Change, %		-18
Elongation Change, %		-21
Hardness Change, %		-8
Static Foam Test	FTM 3213	
Foam Volume, ml		27
Foam Collapse Time, seconds		10
Oxidation Corrosion Test, 200°C, 96 hrs.	ASTM D4636	
Metal Coupon Weight Change, mg/cm2		
Aluminum		-0.05
Silver		-0.03
Bronze		0.05
Steel		0.01
M-50 (steel)		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



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