

# ROYCO<sup>®</sup> 885

LUBRICATING OIL AIRCRAFT INSTRUMENT  
LOW VOLATILITY, SYNTHETIC BASE

## Description

**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	Benefits
Diester Based lubricant	Exceptional wide temperature application Protections metallic components
Oxidation, corrosion and rust inhibited Very low evaporation rate	Long-life lubrication and extended re-lubrication intervals

## 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.

PROPERTY	METHOD	ROYCO® 885
Kinematic Viscosity, cSt	ASTM D445	
@ 54.4°C (130°F)		8.98
@ 40°C (104°F)		13.02
@ -54°C (-65°F)		10,950
Pour Point, °C (°F)	ASTM D97	-64 (-83)
Flash Point, °C (°F)	ASTM D92	225 (437)
Precipitation Number, ml	ASTM D91	0.00
Acid Number, mq KOH/g	ASTM D974	0.1
Evaporation Loss, 120°C, 22 hr,% wt.	ASTM D972	0.9
Color	ASTM D1500	1.4
Oxidation and Corrosion Stability, 121°C, 168 hrs	FTM 791-5308	
Viscosity Change @ 54.4°C, %		0.56
Acid Number Change, mg KOH/g		0.16
Insolubles, mg/100 ml		Pass
Metal Weight Change, mg/cm <sup>2</sup>		
Iron		0.02
Aluminum		0.03
Magnesium		0.03
Copper		0.03
Cadmium	0.01	
Gravity, °API	ASTM D4052	21.7
Density, lbs/gallon, 60°F		7.692
Low Temperature Stability, 72 hrs, -54°C	FTM 3458	pass

## 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.

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