



# MIL-PRF-6085E RADCOLUBE® 6085



## **RADCOLUBE® 6085**

LUBRICATING OIL INSTRUMENT, AIRCRAFT,  
LOW VOLATILITY

Lubricating oil designed for use in aircraft instruments, electronic equipment or where low-evaporation oil is required for both high and low-temperature applications and where oxidation and corrosion resistance is desirable.

**Military Symbol: OAI**

**NATO Code: 0-147**

**Qualification Number: AFPET/PTPT 20-002**

**Qualification Date: 6 February 2020**

**ISO 9001:2015 Certification No: C2024-00254**

**Shelf Life: 24 Months from DOM**

**Manufactured: LaFox, IL 60147 | Cage: 1RVC4**



### NATIONAL STOCK NUMBERS (NSN)

9150-00-223-4129	Quart
9150-01-311-5640	Oblong Gallon
9150-01-018-8959	5 Gallon Pail

**55 Gallon Drums Available Upon Request**



RADCO INDUSTRIES, INC.

CERTIFICATE OF TEST RESULTS FOR RADCOLUBE® 6085

MIL-PRF-6085F LUBRICATING OIL, INSTRUMENT, AIRCRAFT, LOW VOLATILITY

Characteristics	Requirement	Typical Results	Test Method
Viscosity, cSt (mm <sup>2</sup> /s) at 54°C at -54°C	8 min 12,000 max	9.6 11230	ASTM D445
Pour Point	-57°C max	≤ -69	ASTM D97
Flash Point	185°C min	230	ASTM D92
Precipitation Number	0 max	0.00	ASTM D91
Acid Number	Report	0.15	ASTM D974
Corrosion and Oxidation Stability, 168 hours at 121° ± 1°C Metal specimen weight change, mg/cm <sup>2</sup> Cadmium-plated steel Copper Steel Aluminum Magnesium alloy No pitting, etching, or visible corrosion Viscosity change at 54.4°C, percent Acid number change, mg KOH/g No evidence of separation of insoluble materials or gumming of the oil	0.2 max 0.2 max 0.2 max 0.2 max 0.2 max Pass ± 5% max 0.5 max Pass	0.00 0.00 (2e) 0.00 0.01 0.01 Pass 0.05% 0.01 None	ASTM D4636 Procedure 2
Low temperature stability, 72 hours at -54°C	MIL-PRF-6085F ¶ 3.4.3	Pass	MIL-PRF-6085F ¶ 4.4.2
Evaporation Loss 22 hours at 120° ± 1°C, percent weight	1.80%, max	0.81%	ASTM D972
Corrosivity	MIL-PRF-6085F ¶ 3.4.5	Pass	MIL-PRF-6085F ¶ 4.4.6
Color and Appearance ASTM Color Oil shall be clear, transparent and uniform in appearance.	No. 5 max Pass	L1.0 Pass	ASTM D1500 MIL-PRF-6085F ¶ 3.5
Protection of panels for 100 hours	MIL-PRF-6085F ¶ 3.6	Pass	MIL-PRF-6085F ¶ 4.4.4
Workmanship	MIL-PRF-6085F ¶ 3.7	Pass	MIL-PRF-6085F ¶ 3.7

\* Data represents typical laboratory samples and are not guaranteed for all samples