



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: C2021-00038

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



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CHARACTERISTICS	REQUIREMENT	TYPICAL RESULTS	TEST METHOD
Viscosity at 54°C at -54°C	8 cSt, min 12,000 cSt, max	9.6 10,688	ASTM D445 ASTM D2983
Pour Point	-57°C, max	-63	ASTM D97
Flash Point	185°C, min	222	ASTM D92
Precipitation number	0, max	0.0000	ASTM D91
Acid number	Report	0.20	ASTM D644
Specific Gravity at 15.6°C	Report	0.8474	ASTM D1298
Corrosion and oxidation stability 168 hours at 121 ± 1°C			ASTM D4636
Metal Speciman weight change			
Aluminum	0.2mg/cm ² , max	0.023	
Cadmium-plated steel	0.2mg/cm ² , max	-0.008	
Copper	0.2mg/cm ² , max	0.031	
Steel aluminum alloy	0.2mg/cm ² , max	0.008	
Magnesium alloy	0.2mg/cm ² , max	0.023	
Percent change in viscosity at 54°C	5%, max	-0.43%	
Increase in neutralization number	0.5 mg KOH/g	0.00	
Separation of insolube materials/gumming of fluid	None	None	
Low temperature stability	Conform	Conforms	Paragraph 4.4.5
Evaporation	1.80%, max	0.81%	ASTM D972
Corrosivity	Conform	Conforms	Paragraph 4.4.6
Color	Conform	Conforms	ASTM D1500
Protection of panels	Conform	Conforms	Paragraph 4.4.4
Workmanship	Conform	Conforms	Paragraph 3.7