



MIL-PRF-7870E RADCOLUBE® 7870



RADCOLUBE® 7870

LUBRICATING OIL; GENERAL PURPOSE,
LOW TEMPERATURE

Lubricating oil consisting of synthetic hydrocarbon base oils and additives; designed for applications requiring a general purpose, low temperature lubricating oil.

NATO Code: O-142

Qualification Number: AFPET/PTPS 20-012

Qualification Date: 10 August 2020

ISO 9001:2015 Certification No: C2024-00254

Shelf Life: 36 Months from DOM

Manufactured: LaFox, IL 60147 | Cage: 1RVC4



NATIONAL STOCK NUMBERS (NSN)

9150-00-263-3490	Quart
9150-00-273-2397	Oblong Gallon
9150-00-281-9438	55 Gallon Drum

5 Gallon Pails Available Upon Request



**CERTIFICATE OF ANALYSIS FOR RADCOLUBE® LO7870
MIL-PRF-7870E LUBRICATING OIL: GENERAL PURPOSE, LOW-TEMPERATURE**

CHARACTERISTICS	REQUIREMENT	RESULTS	TEST METHOD
Viscosity, mm ² /s (centistokes)			ASTM D445
at 38°C, minimum	10	19	
at -40°C, maximum	4,000	3230	
Pour Point, °C, maximum	-57	-64	ASTM D97, D5949
Precipitation Number, mL, maximum	0	0	ASTM D91
Acid number, mg KOH/g	Report	0.13	ASTM D664
Corrosiveness and Oxidation Stability			ASTM D4636
Change in acid number, mg KOH/g	0.2	0.05	
Metal specimen mass change, mg/cm ² , maximum			
Aluminum	0.2	0.01	
Cadmium plated steel	0.2	-0.03	
Copper	0.2	-0.01	
M-50 Steel	0.2	0.01	
Magnesium	0.2	0.00	
Percent change in viscosity at 38°C	-5% to +20%	7.50%	
Sludge, mL, maximum	0.0	0.0	
Low temperature stability	PASS	PASS	FED-STD-791 Method 3458
Evaporation loss, mass %, maximum	25%	9.8%	ASTM D972
Corrosiveness (Bimetallic Couple)	PASS	PASS	ASTM D6547
ASTM Color, maximum	5.0	0.0	ASTM D1500
Protection of panels	PASS	PASS	Paragraph 4.4.3
Workmanship	PASS	PASS	ISO 9001:2008

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