

## RADCOLUBE LO7870



700 Kingsland Drive  
PO Box 1928  
Batavia, IL 60510  
Phone: (630) 232-7966  
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[www.Radcoind.com](http://www.Radcoind.com)

### MILITARY FLUIDS

## MIL-PRF-7870E

## RADCOLUBE® LO7870

(Lubricating Oil, General Purpose, Low Temperature)

RADCOLUBE LO7870: Lubricating Oil: General purpose, low-temperature lubricating oil consisting of synthetic hydrocarbon base oils and additives; designed for uses requiring a general purpose, low-temperature lubricating oil.

Qualification Number: AFPET/PTPT 15-005

Qualification Date: 12-JUNE-2015

NATO CODE: 0-142

ISO 9001:2015 Certification Number: C2018-00035

### National Stock Numbers Available From Radco

9150-00-263-3490      Quart  
9150-00-273-2397      Gallon (Oblong)

CHARACTERISTICS	REQUIREMENT	TYPICAL RESULTS	TEST METHOD
Viscosity, mm <sup>2</sup> /s (centistokes)			ASTM D445
at 38°C, minimum	10	19	ASTM D445
at -40°C, maximum	4,000	2,590	ASTM D445
Pour Point, °C, maximum	-57	-64	ASTM D97, D5949
Flash Point, °C, minimum	130	217	ASTM D92
Precipitation Number, mL, maximum	0	0	ASTM D91
Acid number, mg KOH/g	Report	0.16	ASTM D664
Corrosiveness and Oxidation Stability			ASTM D4636
Change in acid number, mg KOH/g	0.2	0.05	ASTM D4636



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Metal specimen mass change, mg/cm <sup>2</sup> , maximum			ASTM D4636
Aluminum	0.2	0.01	ASTM D4636
Cadmium plated steel	0.2	-0.03	ASTM D4636
Copper	0.2	-0.01	ASTM D4636
M-50 Steel	0.2	0.01	ASTM D4636
Magnesium	0.2	0.00	ASTM D4636
Percent change in viscosity at 38°C	-5% to +20%	7.50%	ASTM D4636
Sludge, mL, maximum	0.0	0.0	ASTM D4636
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	5.0	ASTM D1500
Protection of panels	PASS	PASS	Paragraph 4.4.3
Workmanship	PASS	PASS	ISO 9001:2008

**Packaging Location: La Fox IL**