



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-83282D(1) RADCOLUBE® FR282

**(HYDRAULIC FLUID, FIRE RESISTANT, SYNTHETIC HYDROCARBON BASE, METRIC)**

**RADCOLUBE® FR282** is a military-qualified synthetic, fire-resistant hydraulic fluid consisting of synthetic hydrocarbon base oils and additives. Designed for safe use in low temperature systems ranging from -40C to 205C, RADCOLUBE® FR282 demonstrates excellent low temperature properties, oxidative stability and fire protection in both military and industrial/commercial applications.

Qualification Number # NAWCADPAX ltr 4123 Ser 434200A/10.0040

Qualification Date: 28 June 2010

Recertification Date: DD FORM 1718: 25 February 2015

NATO CODE: H-537

ISO 9001:2008 Certification Number: C2015-00068

### National Stock Numbers Available From Radco

9150-00-149-7431      Quart  
 9150-00-149-7432      Gallon  
 9150-01-009-7709      10 Gallon Drum  
 9150-00-180-6290      55 Gallon Drum

\* 5 Gallon Pails Available at Request

CHARACTERISTICS	REQUIREMENT	TYPICAL RESULTS	TEST METHOD
Kinematic Viscosity, Centistokes			
@ 40 °C, minimum	14.0 cSt	14.1 cSt	ASTM D455-10



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@ 100 °C, minimum	3.45 cSt	3.51 cSt	ASTM D455-10
@ -40 °C, maximum	2200 cSt	1917 cSt	ASTM D455-10
Foaming Characteristics, @ 25°C	Complete Collapse	Complete Collapse	ASTM D892-10
Evaporation Loss (%wt), maximum	20.0	17.7	FED STD 791-350.2
Pour Point, °C, maximum	-55°C	-72 °C	ASTM D5949-10
Flash Point, °C, minimum	205°C	207°C	ASTM D92
Fire Point, °C, minimum	245°C	255°C	ASTM D92
Total Acid Number, maximum	0.10 mg KOH/g	0.09 mg KOH/g	ASTM D664
Water Content, ppm maximum	100 ppm	7 ppm	ASTM D 6304-07
Solid Particle Contamination per 100 ml, microns			
5 to 15	10,000 max	3,396	FED-STD-791D 3012
16 to 25	1,000 max	299	FED-STD-791D 3012
26 to 50	150 max	76	FED-STD-791D 3012



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51 to 100	20 max	10	FED-STD-791D 3012
+100	5 max	0	FED-STD-791D 3012

**Manufacturing Location: LaFox, IL 60147**