

# 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.



**RADCO  
INDUSTRIES**

700 Kingsland Drive  
Batavia IL 60510

Phone: 630.232.7966

Fax: 630.232.7968

[www.radcoind.com](http://www.radcoind.com)

# RADCOLUBE® FR282

MIL-PRF-83282D(1)

## CHARACTERISTICS

	REQUIREMENT	TYPICAL RESULTS	TEST METHOD
Kinematic Viscosity, Centistokes			
@ 40 °C, Minimum	14.0 cSt	14.1 cSt	ASTM D455-10
@ 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 , maximum	205 °C	207 °C	ASTM D92
Fire Point, °C , maximum	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 D6304-07
Solid Particle Contamination per 100ml, 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
51 to 100	20 max	10	FED-STD 791D 3012
100+	5 max	0	FED-STD 791D 3012

### QUALIFICATION NUMBER:

NAWCADPAX ltr 4123 Ser  
434200A/10.0040

### QUALIFICATION DATE:

28 JUNE 2010

### RECERTIFICATION DATE:

2 NOVEMBER 2016

### NATO CODE: H-537

### ISO 9001:2015 Certification

Number: C2018-00035

## 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 UPON REQUEST

## MANUFACTURING

### LOCATION:

La Fox, IL 60147