

MIL-PRF-46170E, TYPE I

RADCOLUBE® FR170 (FORMERLY MIL-PRF-46170 D TYPE I)

RADCOLUBE® FR170 is a military-qualified synthetic, fire-resistant hydraulic fluid consisting of synthetic hydrocarbon base oils and additives. Designed for safe use in 'extreme condition' hydraulic systems, RADCOLUBE® FR170 demonstrates excellent corrosion inhibitive properties, oxidative stability and anti-wear protection in both military and industrial/commercial applications.



**RADCO
INDUSTRIES**

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www.radcoind.com

RADCOLUBE® FR170

MIL-PRF-46170 E

CHARACTERISTICS

Kinematic Viscosity,
Centistokes

@ 40 °C, Maximum

@ 100 °C, Minimum

@ -40 °C, Maximum

Evaporation Loss (%wt) maximum

Trace Sediment, ml, maximum

Pour Point, °C , maximum

Flash Point, °C , minimum

Fire Point, °C , minimum

Total Acid Number, maximum

Water %, maximum

Solid Particle Contamination per
100ml, microns

5 to 25

26 to 50

51 to 100

> 100

Rust Prevention, 100 hours

REQUIREMENT

TYPICAL RESULTS

TEST METHOD

19.5 cSt

17.1 cSt

ASTM
D455

3.4 cSt

3.74 cSt

ASTM
D455

2,600
cSt

1,860
cSt

ASTM
D455

5.0

3.19

FED STD
791-350.2

0.005

0.001

ASTM
D2273

-54 °C

<-60 °C

ASTM
D5949

218 °C

232 °C

ASTM
D92

246 °C

250 °C

ASTM
D92

0.20 mg
KOH/g

0.11 mg
KOH/g

ASTM
D664

0.05

0.0054

ASTM D
6304

10,000

5286

FED STD
791D 3012

250

92

FED STD
791D 3012

50

108

FED STD
791D 3012

10

0

FED STD
791D 3012

PASS

PASS

ASTM D
1748

QUALIFICATION NUMBER:

HF-78

QUALIFICATION DATE:

17 MAY 2019

NATO CODE: H-544

ISO 9001:2015 Certification

Number: C2018-00035

NATIONAL STOCK NUMBERS

AVAILABLE FROM RADCO

9150-01-332-7819 PINT
9150-00-111-6256 QUART
9150-00-111-6254 GALLON
9150-00-111-6255 5 GALLON PAIL
9150-01-158-0462 55 GALLON DRUM

MANUFACTURING LOCATION:

La Fox, IL 60147

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