



RADCOLUBE FR170 TDS

700 Kingsland Drive
PO Box 1928
Batavia, IL 60510
Phone: (630) 232-7966
Fax: (630) 232-7968
www.Radcoind.com

MILITARY FLUIDS

MIL-PRF-46170 E, TYPE I (Formerly MIL-PRF-46170 D TYPE I) **RADCOLUBE® FR170**

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.

Qualification Number: HF-71
Qualification Date: 20-February-2015
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

CHARACTERISTICS	REQUIREMENT	TYPICAL RESULTS	TEST METHOD
Kinematic Viscosity, centistokes			
@ 40 °C, maximum	19.5 cSt	17.1 cSt	ASTM D455
@ 100 °C, minimum	3.4 cSt	3.74 cSt	ASTM D455



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@ -40 °C, maximum	2,600 cSt	1,860 cSt	ASTM D455
Evaporation Loss (%wt), maximum	5.0	3.19	FED STD 791-350.2
Trace Sediment, ml, maximum	0.005	0.001	ASTM D2273
Pour Point, °C, maximum	-54°C	< -60°C	ASTM D5949
Flash Point, °C, minimum	218°C	232°C	ASTM D92
Fire Point, °C, minimum	246°C	250°C	ASTM D92
Total Acid Number, maximum	0.20 mg KOH/g	0.11 mg KOH/g	ASTM D664
Water %, maximum	0.05	0.0054	ASTM D6304
Solid Particle Contamination per 100 ml, microns			
5 to 25	10,000	5286	FED STD 791D 3012
26 to 50	250	92	FED STD 791D 3012
51 to 100	50	10	FED STD 791D 3012



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> 100	10	0	FED STD 791D 3012
Rust Prevention, 100 hours	PASS	PASS	ASTM D1748

Manufacturing Location: LaFox IL 60147