



700 Kingsland Drive
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MILITARY FLUIDS

MIL-PRF-87257 B (Formerly MIL-PRF-87257 A) RADCOLUBE® FR257

RADCOLUBE® FR257 is a military-qualified synthetic, fire-resistant hydraulic fluid consisting of synthetic hydrocarbon base oils and additives. Designed for safe use in low temperature aircraft and missile hydraulic systems, RADCOLUBE® FR257 demonstrates excellent low temperature properties, oxidative stability and fire protection in both military and industrial/commercial applications.

Qualification Number: AFPET/PTPT 14-006
Qualification Date: 2-MAY-2014
NATO CODE: H-538
ISO 9001:2008 Certification Number: C2015-00068

National Stock Numbers Available From Radco

9150-01-388-7769	Quart
9150-01-386-6687	Gallon
9150-01-391-2087	5 Gallon Pail
9150-01-387-4577	55 Gallon Drum

CHARACTERISTICS	REQUIREMENT	TYPICAL RESULTS	TEST METHOD
Kinematic Viscosity, centistokes			
@ 40 °C, minimum	6.7 cSt	6.8 cSt	ASTM D445
@ 100 °C, minimum	2.0 cSt	2.1 cSt	ASTM D445
@ -40 °C, maximum	550 cSt	456 cSt	ASTM D445



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@ -54 °C, maximum	2,500 cSt	2291 cSt	ASTM D445
Evaporation loss (%wt), maximum	20.0	17.0	FED STD 791-350.2
Pour Point, °C, maximum	-60°C	< -81°C	ASTM D5949
Flash Point, °C, minimum	160°C	170°C	ASTM D92
Fire Point, °C, minimum	170°C	192°C	ASTM D92
Total Acid Number, maximum	0.20 mg KOH/g	0.10 mg KOH/g	ASTM D664
Water Content, ppm maximum	100 ppm	11 ppm	ASTM D 6304
Solid Particle Contamination per 100 ml, microns			
5 to 15	10,000 max	4,034	FED STD 791D 3012
16 to 25	1,000 max	436	FED STD 791D 3012
26 to 50	150 max	108	FED STD 791D 3012
51 – 100	20 max	10	FED STD 791D 3012
> 100	5 max	0	FED STD 791D 3012