



RADCOLUBE FR457 TDS

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

MILITARY FLUIDS

MIL-H-19457 D (SH) RADCOLUBE® FR457

(Hydraulic Fluid, Fire Resistant, Non-Neurotoxic)

RADCO's MIL-H-19457D(SH) is a military-specified synthetic, fire-resistant hydraulic fluid consisting of butylated phosphate esters. Designed for safe use in accumulator loaded hydraulic systems operating above 600 lbs psi, MIL-H-19457D(SH) demonstrates outstanding operational performance and fire resistance properties in both military and industrial/commercial naval applications.

Qualification Number: None Required
Qualification Date: N/A
NATO CODE: N/A
ISO 9001:2015 Certification Number: C2018-00035

National Stock Numbers Available From Radco

9150-01-113-2045 Gallon
9150-01-113-2046 5 Gallon Pail
9150-01-113-2047 55 Gallon Drum

CHARACTERISTICS	REQUIREMENT	TYPICAL RESULTS	TEST METHOD
Kinematic Viscosity, centistokes			
@ 40 °C, minimum	38.5 – 45.5 cSt	43.8 cSt	ASTM D455
@ 100 °C, minimum	4.8 cSt	5.0 cSt	ASTM D455



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Neutrality	Neutral	Conforms	METHOD 5101
Evaporation Loss (%wt), maximum	0.3%	0.09%	ASTM D972
Pour Point, °C maximum	-18°C	-18°C	ASTM D97
Acid Number, maximum	0.1	0.01	ASTM D974
Neutrality, qualitative	Neutral	Conforms	Method 5101
Water Content, %	None	None	ASTM D95
Refractive Index, Nd @ 40°C	Report	1.5509	ASTM D1218
Foaming Tendency @ 24°C mL maximum	65	10	ASTM D892
Form Stability, mL after 10 minutes, maximum	Complete collapse	Complete collapse	ASTM D892
Specific Gravity	Report	1.154	ASTM D287
Precipitation	0.01	0.00	ASTM D91
Appearance	No visible corrosion	No visible corrosion	ASTM D892
Acid Number Increase maximum	0.20 mg KOH/g	0.09 mg KOH/g	ASTM D892
Acidity of Water Layer, maximum	5.0 mg KOH/g	4.0 mg KOH/g	ASTM D892



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Insolubles, % maximum	0.5%	0.004%	ASTM D892
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Manufacturing Location: Batavia, IL 60510