

MIL-H-19457 D (SH)

RADCOLUBE® FR457

(Hydraulic Fluid, Fire Resistant, Non Neurotoxic)

RADCOLUBE® FR457 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.



**RADCO
INDUSTRIES**

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CHARACTERISTICS

	REQUIREMENT	TYPICAL RESULTS	TEST METHOD
Kinematic Viscosity, Centistokes			
@ 40 °C, Minimum	38.5-45.5 cSt	43.8 cSt	ASTM D455
@ 100 °C, Maximum	4.8 cSt	5.0 cSt	ASTM D455
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	REPORT	0.876	ASTM D 1298
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
Insolubles, % maximum	0.5%	0.004%	ASTM D892

**QUALIFICATION
NUMBER:**
None Required

QUALIFICATION DATE:
N/A

NATO CODE: N/A

**ISO9001:2015 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

**MANUFACTURING
LOCATION:**
Batavia, IL 60510