



RADCO INDUSTRIES, INC.

**TECHNICAL DATA SHEET FOR RADCOLUBE® 457 FIRE RESISTANT HYDRAULIC FLUID
MIL-H-19457D**

CHARACTERISTICS	REQUIREMENT	TYPICAL RESULTS	TEST METHOD
Kinematic Viscosity, Centistokes at 100°C at 40°C	4.8 cSt, min. 38.5 - 45.5 cSt	5.0 42.3	ASTM D445
Fire point	Report	320°C	ASTM D92
Flash point	Report	280°C	ASTM D92
Pour Point	-18 °C, max.	-18	ASTM D97
Acid Number	0.1 mg•KOH/g	0.02	ASTM D644
Evaporation Loss at 100°C	0.30% max.	0.09%	ASTM D972
Neutrality	Neutral	Conforms	FTM 5101
Water Content	% none	None	ASTM D95
Color of finished fluid	9 ppm Sudan Blue II Dye or equivalent	Conforms	¶16.2
Corrosion Aluminum Brass Steel Zinc Appearance	Report Report Report Report No visible corrosion	-0.017 -0.006 0.0 -0.006 No visible corrosion	¶4.5.3
Hydrolytic Stability Copper speciman, weight loss Appearance Acid Number increase of fluid Acidity of water layer Insolubles	0.3 mg/cm2, max. No corrosion 0.2 mg•KOH/g 5 mg•KOH/g 0.5%, max.	-0.125 Shiny, 1B 0.09 4.03 0.004%	¶4.5.2
Foaming Tendency at 24°C Foam stability	65 mL, max. Collapse	10 Collapse	ASTM D892
Refractive Index at 40°C	Report	1.5509	ASTM D1218
Emulsion Test at 54°C	30 min., max.	5	ASTM D1401
Specific gravity at 15.6°C	Report	1.154	ASTM D287
Wear test scar diameter	0.6 mm, max.	0.57	ASTM D2266
Precipitation	0.01, max.	0.00	ASTM D91
Compatability with Packings EPDM Type 1: EPDM Type 2: EPDM Type 3:	±5% of Referee ±5% of Referee ±5% of Referee	0.19% -0.73% -1.37%	¶13.6; ¶4.5.4; FTM 791
Ortho-cresyl	Report	< 0.01%	