



MIL-PRF-5606J RADCOLUBE® RHP5606



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HYDRAULIC FLUID, PETROLEUM BASE;
AIRCRAFT, MISSILE, AND ORDNANCE

A petroleum based, non-synthetic hydraulic fluid used in a variety of hydraulic systems requiring an operational fluid in the -54°C to 135°C temperature range.

Military Symbol: OHA

NATO Code: H-515

**Qualification Number: AFPET/PTPS 20-005
AFPET/PTPS 20-006
AFPET/PTPS 21-006**

**Qualification Date: 20 February 2020
3 March 2020
9 March 2021**

ISO 9001:2015 Certification No: C2021-00038

Shelf Life: 24 Months from DOM

**Manufactured: LaFox, IL 60147 | Cage: 1RVC4
Batavia, IL 60510 | Cage: 6ZS16**



NATIONAL STOCK NUMBERS (NSN)	
9150-00-252-6383	Quart
9150-00-223-4134	Gallon
9150-00-082-7524	10 Gallon Drum
9150-00-265-9408	55 Gallon Drum

5 Gallon Pails Available Upon Request



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PROPERTY	REQUIREMENT	TYPICAL RESULTS	TEST METHOD
Acid number, mg KOH/g (max)	0.20	0.10	ASTM D664
Barium content, mg/kg (max)	10	0.0	ASTM D5185
Color	Paragraph 3.4.1	Conforms	ASTM D1500
Compatibility	Paragraph 3.4.2	Conforms	Paragraph 4.4.2
Copper strip corrosion, ASTM Standard (max)	2e	2a	Paragraph 4.4.3
Corrosiveness and oxidation stability 168 hours at 135°C ± 1°C			ASTM D4636
Change in acid number, mg KOHg (max)	0.20	0.10	Procedure 2
Metal specimen weight change, mg/cm ² (max)			
Aluminum	± 0.2	0.000	
Cadmium plated steel	± 0.2	-0.039	
Copper	± 0.6 (No. 3)	-0.039 (1b-2a)	
1010 Steel	± 0.2	0.000	
Magnesium	± 0.2	0.008	
Percent change in viscosity at 40°C	-5% to +20%	7.15%	
Separation of insoluble materials or gumming of the fluid	None	None	
Evaporation loss (6 hours at 71°C), % (max)	20%	12%	ASTM D972
Flash point, °C (min)	82	94	ASTM D93
Foaming Characteristics at 24°C			ASTM D892
Foaming tendency, mL (max)	65	50	
Foam stability, mL (max)	Complete Collapse	Complete Collapse	
Isothermal secant bulk modulus at 40 °C and 27.6 MPa (4000 psig), MPa (psi) (min)	1379 (200,000)	1542 (223,648)	ASTM D6793
Low temperature stability 72 hours at -54 °C ± 1 °C	Paragraph 3.4.3	Conforms	FTM 3458
Particulate contamination			
Particle count, SAE AS4059, Contamination Level	5	Conforms	FTM 3012
Number of particles per 100 mL (max)			ISO 11500
5-15 (6-14 _(c))	8000	1210	
16-25 (15-21 _(c))	1425	177	
26-50 (22-38 _(c))	253	64	
51-100 (39-70 _(c))	45	12	
> 100 (> 70 _(c))	8	0	
Gravimetric analysis, mg/100 mL (max)	1.0	0.3	ASTM D4898
Pour point, °C (max)	-60	-81	ASTM D97
Relative density at 15.6/15.6°C	Paragraph 3.4.4	0.8710	ASTM D1298



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PROPERTY	REQUIREMENT	TYPICAL RESULTS	TEST METHOD
Rubber swell, standard synthetic rubber L 168 hours at 70 °C, %	19.0% to 30.0%	22.3%	ASTM D4289
Shear stability	Paragraph 3.4.5	Conforms	ASTM D2603
Steel-on-steel (average wear scar) mm in diameter (max)	1.0	0.62	ASTM 4172
Storage stability (24°C ± 3°C for 12 months)	Paragraph 3.4.6	Conforms	FTM 3465
Viscosity, mm ² /s at			ASTM D445
-54°C (max)	2500	2073	
-40°C (max)	600	453	
40°C (min)	13.2	14.4	
100°C (min)	4.90	5.42	
Water, mg/kg (max)	100	20	ASTM D6304
Workmanship	Paragraph 3.5	Conforms	ISO 9001:2015