TECHNICAL DATA

Sentinel Canada

SENSYN 87257

SYNTHETIC FIRE-RESISTANT HYDRAULIC FLUID

Military Specification: MIL-PRF-87257B
QPL No. AFPET-PTPT 14-005

DESCRIPTION:

SenSyn 87257 is a military-qualified synthetic, fire-resistant hydraulic fluid consisting of synthetic hydrocarbon base oils and additives. It is intended safe use in low temperature aircraft and missile hydraulic systems.

SenSyn 87257 unique formulation uses the most advanced additive technology providing excellent low temperature properties, outstanding oxidative stability and fire protection in both military and industrial/commercial applications.

TEST	METHOD	SPECIFICATION REQUIREMENTS MIL-PRF-87257	RESULTS
1. Kinematic Viscosity, cSt	ASTM D-445		
@ 40^{0}C		6.7 Min.	6.99
@ 100^{0}C		2.0 Min.	2.16
@ -40^{o}C		550 Max.	498.4
Viscosity Stability @ -54^{o-}C	ASTM-D2532	2500 Max.	Pass
2. Pour Point, ^{o}C	ASTM D-97	-60 Max.	-64
3. API Gravity @ 15.6^{o}C/15.6^{oC}	ASTM D-287	Report	37.75
4. Flash Point COC, ^{o}C	ASTM D-92	160	1700.04
5. Evaporation, 6 1/2 @ 135^{o}C, %	ASTM D-972	20 Max.	15.2
6. Total Acid Number, mg KOH/gm	ASTM D-664	0.20 Max.	
7. Water Content,Karl Fischer (ppm)	ASTM D-6304	50 Max	
8. Particulate Contamination Size	FTM 3011		
Range, Largest Dimension, Micrometers		Number count	
5 to 15 micrometers		< 10,000	375
16 to 25 micrometers		< 1,000	590
26 to 50 micrometers		< 150	30
51 to 100 micrometers		< 20	0
Over 100 micrometers		< 5	0
9. Foaming Characteristics @ 24^{o}C, Seq. I	ASTM D-892	65/0	35/0
10. Steel-On-Steel Wear, Scar Diameter (mm), 40 kg	ASTM D-4172	0.65 Max.	0.60
11. Low Temperature Stability (72 h @ -54^{o}C)rs	FTM-3459	No evidence of gelling, clouding, crystallization, solidification or separation of ingredients.	Pass
12. Gravimetric Filtration, mg/100 ml	ASTM D-4898	1.0 Max.	0.40

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