

SenSyn 87252

COOLANT FLUID, HYDROLYTICALLY STABLE DIELECTRIC

MILITARY SPECIFICATION: MIL-PRF-87252D (1)

QPL NUMBER: AFPET/PTPT 13-006

DESCRIPTION:

SenSyn 87252 is a synthetic based fluid formulated with highly advanced and very stable synthetic hydrocarbon based on polyalphaolefin (PAO). It is fortified with the state-of-the-art additive technology to provide long-lasting storage stability and exceptional performance over a wide range of temperature. **SenSyn 87252** does not react with water ensuring efficient, ultra clean operation and components prolonged life.

BENEFITS:

- Exceptional performance over a wide range of temperature
- Longer fluid life
- Lower toxicity as compared to other types of avionic coolants.
- No reaction with water
- Less environmental impact in the event of a spill

APPLICATION:

SenSyn 87252 is intended for use as a dielectric cooling fluid for aircraft avionics systems, transmitter equipment, supply unit, electronic cooling devices and equipment as well as ordnance systems.

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SPECIFICATIONS	TEST METHOD	TYPICAL RESULTS
Viscosity, cSt @ 100 °C	ASTM D-445	1.74
@ 40°C		5.20
@ -40°C		254
@ -54°C		1089
Viscosity Index	ASTM D-2270	147
Flash Point, °C	ASTM D-92	160
Fire Point, °C	ASTM D-92	177
Pour Point, °F	ASTM D-97	-100
Evaporation, 400 °F/ 6.5 hrs, %	ASTM D-972	17
Water Content, ppm	ASTM D-1744	<30
Gravity, API	API	45.5
Specific Gravity, 15.6°C	ASTM D-1298	0.80
Specific Heat, Cp., cal/g-°C	ASTM D-2766	
@ -17.8°C		-49
@ 37.8°C		0.55
@ 149°C		0.65
@ 260°C		0.73
Density, gm/cc	Dilatometer	
@ 0°C		0.8060
@ 100°C		0.7394
@ 190°C		0.6769
Thermal Conductivity, cal/hr/cm ² (°C/cm)		
@ -17.8°C		1.26
@ 37.8°C		1.22
@ 149°C		1.13
@ 260°C		1.04

COMPATIBILITY WITH ELASTOMERS:

Compatible (<5% swell) with Nitrile (N 674-70), Fluorosilicone, Fluorocarbon (PTFE, Viton), Polyacrylate.