

SENT-17111

TRANSMISSION POWER FLUID

MILITARY SPECIFICATION: MIL-DTL-17111E (1)

DESCRIPTION:

SENT-17111 is a blend of highly refined petroleum base oils and unique additives to provide excellent low temperature fluidity, resistance to oxidation and corrosion, anti-wear properties, and a high viscosity index.

SENT-17111 has a temperature range from -40°C to 122°C (-40°F to 250°F).

BENEFITS:

SENT-17111:

- Excellent Low Temperature Fluidity
- Wide Operating Temperature Range
- Excellent Oxidation and Corrosion Inhibition
- Outstanding Antiwear Performance
- Excellent Viscosity Stability

APPLICATION:

SENT-17111 is designed for the hydraulic transmission of power in Naval ordinance hydraulic equipment, providing corrosion protection in the presence of salt water and spray.

SENT-17111 has a maximum recommended shelf life of six years from date of manufacture. This shelf life assumes that the product is stored in its original unopened packaging in ambient temperature conditions.

APPROVAL:

SENT-17111 meets the requirements of military specification MIL-DTL-17111C. This fluid is identified by NATO Code Number H-575.

SENT-17111

TEST	METHOD	SPECIFICATION REQUIREMENTS MIL-DTL-17111	RESULTS
1. Neutralization Number, mg KOH/gm	D-974	0.3 Max.	0.1
2. Kinematic Viscosity, cSt	D-445		
@ 40°C (104°F)		25 Min.	27.4
@ 100°C (212°F)		8 Min.	8.8
@ -20°C (-4°F)		500 Min.	278
@ -35°C (-31°F)		1000 Max.	828
3. Pour Point, °C	D-97	-60 Max.	>-60
4. Corrosion-Oxidation Stability 72 hours @ 93.3°C (201°F) Change in Viscosity @ 100°C, % Change in Viscosity -20°C, % Neutralization Number mg KOH/gm Oil Layer Neutralization Number, mg KOH/gm Water Layer Loss of Liquid, gm	Spec. 4.2.3.4.2	0 to +15 0 to +15 0.5 Max. 0.5 Max. 10 Max.	+4.4 +24.5 0.08 0 2.6
5. Water Content, %	D-95	0.05 Max.	0
6. Water Sludging Viscosity @ 40°C, % Change	Spec. 4.2.3.5	-2 to +10	8.1
7. Evaporation, 6 hrs @ 66°C, %	D-972	20 Max.	7.1
8. Flash Point, COC, °C (°F)	D-92	104 (220) Min.	110 (230)
9. Low Temperature Turbidity 72 hrs @ -37°C (-35°F)	Spec. 4.2.3.2	Pass	Pass
10. Specific Gravity @ 60/60°F	ASTM-287	0.859-0.875	0.871
11. Workmanship	Spec. 3.2.5	Pass	Pass

Rev. Jan. 2016