



Energol THN 77

Turbine oil - MIL spec approved

Description

Energol THN 77 is a high quality steam turbine oil uniquely formulated for use on naval surface vessels and submarines. The product meets specific performance requirements as per the US military and passes all health and safety assessments as required by the US Navy.

Application

Energol THN 77 is recommended for use in main steam turbine bearings and reduction gears, as well as auxiliary turbines, certain hydraulic equipment, air compressors and general mechanical lubrication on naval surface vessels and submarines.

Approval

Energol THN 77 is fully approved by the US Navy and has been tested against US Military Specifications MIL-PRF-17331H and MIL-PRF-17331J. Energol THN 77 may also be identified as Nato Symbol O-250, and Military Symbol 2190-TEP.

Main Performance Features

- Does not contain phenolic anti-oxidants
- Chlorine and zinc free
- Excellent demulsibility
- Rust inhibited
- High level of gear lubrication performance (FZG stage 10)
- High thermal and oxidation stability to prolong service life
- Good anti-foam and air release properties

Typical Characteristics

Name	Method	Units	Energol THN 77
Density @ 15°C, Relative	ASTM D4052	g/ml	0.883
Flash Point, COC	ASTM D92	°C	245
Air Release Value @ 50°C	ASTM D3427	mins	13
Acid Number	ASTM D974	mgKOH/g	0.26
Acidity, Mineral	ASTM D1093	-	neutral
Kinematic Viscosity @ 4.4°C	ASTM D445	cSt	820
Kinematic Viscosity @ 40°C	ASTM D445	cSt	76.5
Kinematic Viscosity @ 100°C	ASTM D445	cSt	9.3
Pour Point	ASTM D97	°C	-9
Copper Corrosion, 3hrs @ 100°C	ASTM D130	-	1a
FZG	DIN 51 354	Load stage	10
TOST Life to 2 mgKOH/g	ASTM D2272	Hrs	>2000

The above figures are typical of those obtained with normal production tolerance and do not constitute a specification.

Packaging and Storage

Supplied in bulk, and drums of approximately 208 litres. Ensure drums are tightly re-sealed after use.

All packages should be stored under cover. Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and the obliteration of drum markings.

Products should not be stored above 60°C, exposed to hot sun or freezing conditions.

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