

Industrial Oils



PETROGULF TRANSFORMER OILS

Product Data Sheet

PetroGulf Transformer Oils are highly-refined electrical insulating oil developed for use in oil-immersed transformers, capacitors, tap changers and circuit breakers where the equipment manufacturer specifies a Type II inhibited oil meeting ANSI/ASTM D3487-09 requirements. Transformer oil is formulated with hydro-treated naphthenic base oils and oxidation inhibitor to control sludge and deposit formation and provide extended service life compared with non-inhibited Type I transformer oils. It has a high dielectric strength and low power factor to provide excellent insulating properties. They have excellent low temperature properties and is noncorrosive to copper and copper alloys. This product does not contain any PCBs and can be used in oil immersed transformers, circuit breakers, fuses, switches.

FEATURES/BENEFITS

- Excellent insulating properties
- High dielectric strength
- Low power factor
- Resists oxidation and deposit formation
- Excellent low-temperature properties
- Compatible with materials used in transformers
- Does not contain PCBs.

PERFORMANCE

- ANSI/ASTM D348-09 Type II inhibited oil
- British standard BS 148, Class 1A
- Federal VV-I-530A, Class II Specification
- GE A13A3A2 (10CA)
- IEEE
- International Standard IEC 60296
- NEMA Type II (obsolete)
- Westinghouse Specification PDS 55822AG

TYPICAL PROPERTIES

PetroGulf Transformer Oil (Inhibited)	Results
ISO Grade	10
Specific Gravity @ 15°C	0.888
Color, ASTM D1500	L0.5
Flash Point (COC), °C	> 130
Pour Point, °C	< = -45
Kinematic Viscosity	
cSt @ 40 °C	9.6
cSt @ 100 °C	2.3
Acid Number, ASTM D974, mg KOH/g	< 0.01
Aniline Point, AST D611, °C	70
Corrosive Sulphur, ASTM D1275D	Noncorrosive
Dielectric Breakdown Voltage ⁽²⁾	
Disc Electrodes, 60Hz, ASTM D887, kv	45
VDE Electrodes, 0.04-in Gap, ASTM D1816, kv	32
Oxidation Stability, RPVOT, ASTM D2272, minutes	280
PCB Content, ASTM D4059, wt %	None
Power Factor @ 60 Hertz, ASTM D294,	
@ 25 °C	0.003
@ 100 °C	0.074
Water, ASTM D1533, wt %	0.0015

These characteristics are typical of current production. Whilst future production will conform to PetroGulf's specification, variations in these characteristics may occur.

HEALTH AND SAFETY INFORMATION

For recommendations on safe handling and use of this product, please refer to the Material Safety Data Sheet.

⁽¹⁾**Note:** In order to maintain its high dielectric strength for use as insulating oil, the oil must be kept clean & dry. Contamination with even small amount of water would significantly decrease the dielectric strength. The drums are sealed at the terminal with a blanket of dry air to keep moisture out. The drums should be store indoors and covered to protect from dust and debris. If stored outdoors, they should be positioned on their sides or upside down and covered to protect them from exposure to the elements. Every effort should be made to use the entire drum once the seal is broken to help prevent contamination. If contamination is expected, always inspect the drum and test the oil for dielectric strength before use.

⁽²⁾At the point of manufacture



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