

TECHNICAL DATA SHEET

TRANSFORMER OIL



DESCRIPTION

GULF WESTERN TRANSFORMER OIL is an inhibited dielectric fluid produced from severely hydrotreated naphthenic crude oil. It is designed to meet the specification requirements of ASTM D3487. This product offers excellent oxidation stability and a very low pour point, making it ideal for use in transformers and other electrical equipment.

SUMMARY OF BENEFITS

- High Dielectric Strength: Ensures effective electrical insulation
- Low Pour Point: Delivers reliable performance in cold climate environments
- Excellent Oxidation Stability: Extends fluid life and minimizes sludge formation
- Good Heat Transfer: Ensures efficient cooling of cores and windings

SPECIFICATION

- ASTM D3487

APPLICATION

Used as an insulating and cooling fluid in oil-filled electrical equipment such as transformers, circuit breakers, switchgear, and other high-voltage systems.

TRANSFORMER OIL	UNIT	TEST METHOD	RESULT
VISUAL EXAMINATION	-	ASTM D1524	Pass
ASTM COLOUR	-	ASTM D6045	L0.5
DENSITY @ 15 °C	g/cm ³	ASTM D4052	0.8824
KYNEMATIC VISCOSITY @ 40 °C @ 100 °C	mm ² /s mm ² /s	ASTM D445 ASTM D445	9.8 2.4
POUR POINT	°C	ASTM D5950	-53
FLASH POINT (COC)	°C	ASTM D92	157
WATER CONTENT	ppm	ASTM D1533	15
INTERPHACIAL TENSION, 25 °C	dynes/cm	ASTM D971	48
DIELECTRIC BREAKDOWN @ 60 Hz, disc @ 60 Hz, 1 mm @ 60 Hz, 2 mm	kV kV kV	ASTM D877 ASTM D1816 ASTM D1816	52 22 41
POWER FACTOR @ -25 °C @ -100 °C	% %	ASTM D924 ASTM D924	0.001 0.03
GASSING TENDENCY	µL/min	ASTM D2300	14
OXIDATION STABILITY PRESSURE VESSEL	minutes	ASTM D2112	341
OXIDATION INHIBITOR	% wt.	ASTM D2668	0.27
CORROSIVE SULPHUR	-	ASTM D1275	Noncorrosive
PCB CONTENT	ppm	ASTM D4059	Not Detected

Typical characteristics are only a guide to industry and are not necessarily manufacturing or marketing specifications and do not constitute any legal liability.

STORAGE INSTRUCTIONS AND HEALTH, SAFETY AND ENVIRONMENT INFORMATION

All packages should be stored under cover to avoid the possible ingress of water and the obliteration of drum markings. Products should not be stored above 60 °C. Health, safety and environmental information is provided for this product in the relevant Materials Safety Data Sheet, which can be obtained by contacting Gulf Western Oil.

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