

POWER TRANSFORMER OIL

Petromin Power Transformer Oil is un-inhibited highly-refined transformer oil specifically manufactured for use in electric transformers and switchgears as an insulating and heat transfer medium. It has very low sulphur content.

BENEFITS

- Good oxidation stability.
- High dielectric strength.
- Very low pour point.
- Free from acids and corrosive sulphur.
- Compatible with transformer construction material.

Performance Level (Meeting)

IEC 60296 (Edition 4 of 2012)
Former BS 148 (184)

APPLICATIONS

Petromin Power Transformer Oil conforms to IEC 60296 Edition 4 of 2012 as well as former B.S 148/1984 and IEC Specification 296 (82). This is used as an insulating and cooling medium where oil of high thermal and oxidation stability is required. It is also suitable where good gas absorbing properties are necessary like transformer oil immersed switchgear, circuit breakers etc. Transformer Oil meets class I and class II of BS 148 and IEC 296 specification.



PRODUCT DATA SHEET

PRODUCT CHARACTERISTICS*

TEST DESCRIPTION	SPECIFICATIONS	VALUE		TEST METHOD
		Min	Max	
Property				
Function				
Density @ 20 °C		0.895	0.824	ISO 12185
Viscosity @ 40°C mm ² /s		12.0	8.9	ISO 3104
Viscosity @ -30°C mm ² /s		1500	378	ISO 3104
Pour Point °C		-40	-42	ISO 3016
Water Content, mg/kg		30	15	IEC60814
BDV, kV, Before treatment	30		45	IEC 60156
BDV, kV, After treatment	70		75	IEC 60156
DDF at 90 °C		0.005	0.0005	IEC 60247
Refining/Stability				
Appearance	Clear, free from suspended matter		PASS	Visual
Total Sulfur, ppm		500	60	ISO 14596
Interfacial Tension, mN/m	40		45	ISO 6295
Corrosive Sulfur	Non Corrosive		Non Corrosive	DIN 51353
Corrosive Sulfur	Non Corrosive		Non Corrosive	ASTM 1275, B
2-Furfural content	Not detected (<5mg/kg)		Not detected	IEC 61198
DBDS	Not detected (<5mg/kg)		Not detected	IEC62697-1
Inhibitors of IEC 60666	Not detected (<0.01 %)		Not detected	IEC 60666
Metal Passivator Additives	Not detected (<0.05mg/kg)		Not detected	IEC 60666

*The information and figures given here are typical of current production and conform to specification, minor variations may occur.

