

### POWER TRANSFORMER OIL-I

Petromin Power Transformer Oil-I is an inhibited transformer oil that derived from highly-refined & severely hydro treated mineral base oil. This is specially manufactured for both power & distribution transformer and for use in electric switchgears as an insulating and heat transfer medium.

#### Performance Level (Meeting)

IEC 60296 (Edition 4 of 2012)  
Former BS 148 (184) Class II/I  
GB 2536-90

#### BENEFITS

- Excellent oxidation stability, that effectively preventing formation of acidic material and sludge
- Compatible with transformer construction material.
- Outstanding electrical insulation property, effectively preventing occurrence of discharge in electric field
- Good heat conductivity, ensuring effective cooling of transformer core and coiling

#### APPLICATIONS

Petromin Power Transformer Oil-I is manufactured exclusively to be used as insulating oil and cooling media for bigger as well as for small transformer 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.



## PRODUCT DATA SHEET

### PRODUCT CHARACTERISTICS\*

TEST DESCRIPTION	SPECIFICATIONS	VALUE		TEST METHOD
		Min	Max	
Property				
Function				
Density @ 20 °C		0.88	0.845	ISO 12185
Viscosity @ 40°C mm <sup>2</sup> /s		12.0	10.3	ISO 3104
Viscosity @ -30°C mm <sup>2</sup> /s		1800	615	ISO 3104
Pour Point °C		-33	-36	ISO 3016
Water Content, mg/kg		25	14	IEC60814
BDV, kV, Before treatment	30		40	IEC 60156
BDV, kV, After treatment	70		70	IEC 60156
DDF at 90 °C		0.005	<0.001	IEC 60247
Refining/Stability				
Appearance	Clear, free from suspended matter		PASS	Visual
Total Sulfur, ppm		500	<100	ISO 14596
Interfacial Tension, mN/m	40		44	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

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

