

TEXOL POWERTEX NI-60



Powered By
gandhar
oil refinery (india) ltd.

Product Description

Texol Powertex NI-60 Transformer Oil is developed through Texol in-house R&D efforts. It is developed and formulated to deliver solid resistance to oil degradation. This increases the possibilities for a longer transformer life with less maintenance. It Surpass the current requirements of IEC 60296: 2012 standard specification.

Applications

Texol POWERTEX NI-60 is used in transformers and electrical industry (switchgear, inductors, condensers, transducers)

Features and Benefits

- superior performance and high oxidation stability.
- Ultra-low viscosity and superior heat transfer.
- It has strong resistance to oil degradation.
- It provides an excellent oxidation stability for a longer transformer life with less maintenance.

Specifications and Approvals

It meets the Naphthenic inhibited transformer oil specification IEC 60296

Characteristics

	Characteristics	Test Method	Specification
	1-Function:		
1	Color	ASTM D 1500	---
2	Kinematic Viscosity @40 °C mm ² /sec @ (-) 30°C mm ² /sec	ISO 3104 ISO 3104	Max. 12 Max. 1800
3	Pour Point °C	ISO 3016	Max. (-) 40
4	Water Content (PPM)	IEC 60814	Max. 30 mg/kg for bulk supply Max. 40 mg/kg for supply in Drum
5	Breakdown Voltage	IEC 60156	Min. 30 kV as delivered Min. 70 kV after lab treatment
6	Density @20°C KG/dm ³	ISO 3675 OR ISO 12185	Max. 0.895
7	Density @29.5C KG/dm ³	ISO 3675 OR ISO 12185	---
8	Dielectric Dissipation Factor @ 90°C & 40 to 60 Hz	IEC 60247 OR IEC 61620	Max. 0.005
9	Particle Content	ISO 60970	No General Requirement

	2-Refining/ Stability:		
10	Appearance	VISUAL	Clear, free from sediment & Suspended matter
11	Acidity	IEC 62021-1 OR IEC62021-2	Max. 0.01 mg KOH/gm
12	Inter Facial Tension MN/m	EN 14210 OR ASTM D971	Min. 40
13	Total Sulphur Content	IP 373 OR ISO 14596	No General Requirement
14	Corrosive Sulphur	DIN 51353	Non Corrosive
15	Potentially Corrosive Sulphur	IEC 62535	Non Corrosive
16	DBDS(Dibenzylidisulphide) mg/kg	IEC 62697	Not Detectable(<5mg/kg)
17	Inhibitors of IEC 60666	IEC 60666	inhibited Oil; (0.08% to 0.4%)
18	Metal Passivator Additives mg/kg	IEC 60666	Not Detectable
19	Other Additives	---	---
20	2 Furfural Content mg/kg/gm	IEC 61198	Not Detectable
21	Stray Gassing	See 6.22	No General Requirement
	3-Performance:		
22	Oxidation Stability @120°C, 500 HRS	IEC-61125:1992 (METHOD C) TEST DURATION; INHIBITED OIL: 500 Hrs	
	A) Total Acidity mg KOH /gm	1.9.4 of IEC 61125:1992	Max. 1.2
	B) Sludge %	1.9.1 of IEC 61125:1992	Max. 0.8
	C) DDF @ 90 °C	1.9.6 Of IEC 61125:1992 Amendment 1(2004) +IEC 60247	Max. 0.5
23	Gassing Tendency	IEC60628:1985, METHOD A	No General Requirement
24	ECT		No General Requirement
	4- Health, Safety and Environment:		
25	Flash Point	ISO 2719	Min. 135°C
26	PCA Content %	BS-2000 PART 346	Max. 3 .0%
27	PCB Content mg/kg/gm	IEC-61619	Not Detectable
28	Carbon Type Analysis CA % CP % CN %	FTIR	4.0 to 12.0 Max. 50.0 Min. 42.0

Health and Safety

Detailed health and safety information for this product is provided in a Material Safety Data Sheet which is available upon request from our Texol sales office.