



gandharoil

REFINERY (I) LTD

(An ISO 9001:2000 Certified)

DIVYOLTRANSFORMER OIL IS 335/1993

No	Characteristics	Test Method	Gandhar's Results
1.	Appearance	Sample of Oil shall be examined in 100 mm thick layer at 27 °C	Clear, Transparent oil, free from suspended matter or sediment.
2.	Colour	ASTM	Less than 1
3.	Density @ 29. 5°C g/cm ³	IS: 1448	0.810 – 0.840
4.	Kinematic Viscosity @27°C	IS: 1448	11- 20 CST
5.	Interfacial tension @ 27°C N/M	IS: 6104	0.040 min N/M
6.	Flash Point (PMCC) °C	IS: 1448	150 MIN
7.	Pour Point °C	IS: 1448	<- 9°C
8.	Neutralization Value / Total Acidity mg KOH/gm	IS: 1448	0.02 MAX
9.	Corrosive Sulphur (in terms of Classification of Copper Strip)	IS: 6792	Non-Corrosive
10.	Electric Strength: - a. New Untreated Oil b. After treatment	IS-6792	50 - 55 KV -----
11.	Dielectric Dissipation Factor (tan delta) at 90° C	IS: 6262	0.0005 – 0.0009
12.	Specific Resistance (Resistivity) a. at 90° C min b. at 27° C min	IS:335	200 x 10 ¹² ohm cm 2000 x 10 ¹² ohm cm
13	Oxidation Stability@100°C a. Neutralisation Value after Oxidation b. Total Sludge after Oxidation	-----	0.30 MAX 0.05 % MAX
14	Presence of Oxidation INHIBITOR	-----	Absent
15	Water Content	IS: 335	35 ppm (Max)
16	Test of Sample for 96 hours as per ASTM Open Beaker method with Copper Catalyst A. Dielectric Dissipation Factor at 90°C B. Specific Resistance (Rsistivity) Ohm-cm A) at 90°C B) at 27°C C) Neutralization Value (mgKOH/gm) D) Total Sludge% by weight.	IS: 335	0.01 MAX 5 x 10 ¹² 25 x 10 ¹² 0.03 MAX 0.02 max
17	S.K.Value %	ANNEX-D IS: 335	3 MAX

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