



gandharoil

REFINERY (I) LTD

(An ISO 9001:2000 Certified)

DIVYOLTRANSFORMER OIL IEC 296 CLASS-IA

No	Description of Test	Test Method	Specification	Typical values as per IEC296 Class IA
1.0	Physical			
	Appearance	IEC: 296	Clear, Transparent & free from sediment.	Clear, Transparent & free from sediment.
	Density@ 20° C. Kg/m ³	ISO: 3675	0.810 – 0.860	0.83
	Interfacial Tension AT 25 ° C. N/M	ISO: 6295	0.040 MIN	0.045
	Kinematic Viscosity.mm2 / s.	ISO: 3104	8 TO 12 @40°C 750 TO 850 @ -15°C	11.0@ 40°C 800 @ - 15°C
	Flash Point(PMCC) ° C	ISO: 2719	140 MIN	160.
	Water Content Mg /Kg. (PPM)	IEC 733 BS: 6470	30 MAX	25
	Pour Point	ISO-3016	< - 30°C	<-30 MAX.
2.0	Electrical			
	Electrical Strength(BDV) as delivered	IEC: 156	50 MIN	60
	Resistivity, MIN. Ω-cm	IEC: 247	100 @90°C MIN 2000@20°C MIN	150@ 90°C 2500 @ 20°C
	Dissipation Factor (Tan Delta) at 50 Hz, MAX.	IEC: 247 BS: 5737	0.00050 MAX 0.0010 MAX	0.0003 @ 27°C 0.0008 @ 90°C
3.0	Chemical			
	Neutralization Value (Total Acidity) mg KOH/g	IEC: 296 / BS2000 P-1	0.02 MAX	0.0045
	Corrosive Sulphur	ISO: 5662	Non Corrosive	Non Corrosive
	Aromatic Content %	IEC: 590	MAX 8%	4
4.0	Oxidation Stability for 164 Hours @100°C	IEC: 1125 METHOD -A		
	Neutralization Value (Mg KOH/g)		0.40 MAX	0.20
	Total Sludge (By Mass %)		0.10 MAX	0.015
5.0	Oxidation Stability for 164 Hours. 120°C	IEC: 1125 METHOD -A		
	Neutralization Value (Mg KOH/g)		0.75 MAX	0.50
	Total Sludge (By Mass %)		0.40 %	0.2
6.0	Gassing Tendency @ 50 Hz. AFTER 120 minutes, Max MM2 / Minute	IEC: 628 –A BS: 5797	+ 2.5	+2.5
7.0	Oxidation Inhibitor		ABSENT	ABSENT

Corp Off: 1001, 10th Floor, Unique Towers,
Goregaon (W), SV Road, Mumbai 400062, INDIA

TEL: 0091-22-40635600

FAX: 0091-22-40635601

E-MAIL: info@gandharoil.com

www.gandharoil.com