



SEVOLT TRANSFORMER OIL

SR. NO.	CHARACTERISTICS	TEST METHOD	IS:335/1993		TEST VALUES
			MIN	MAX	
1	APPEARANCE	A representative sample of the oil shall be examined in a 100 mm thick layer at 27 ^o c	The oil shall be clear transparent & free from suspended matter/sediments		Clear transparent & free from suspended matter/sediments
2	Density at 29.5 °C g/cm ³	IS:1448(P-16)-1990		0.89	0.8190
3	Kinematic Viscosity at 27 °C, cSt.	IS:1448(P-25)-1976		27	19.00
4	Interfacial Tension at 27 °C, N/M	IS:6104-1971	0.04		0.042
5	Flash Point, °C (PMCC)	IS:1448(P-21)1992	140		186
6	Pour Point, °C	IS:1448(P-10)1970		-6	-27
7	Neutralisation Value, mg KOH/g.	IS:1448(P:2)1967			
	a) Total acidity, mg.KOH/gm			0.03	NIL
	b) Inorganic acidity/Alkalinity mgKOH/gm		NIL		NIL
8	Corrosive Sulphur	Annex B	Non-Corrosive		Non-corrosive
9	Electric Strength (BDV)	IS:6792-1992			
	a) New unfiltered oil, kv(rms)		30		72
	b) After filtration, kv(rms)		60		----
10	Dielectric dissipation Factor (tan delta) at 90 ° C	IS:6262-1971		0.002	0.0002
11	Specific Resistance, ohm-cm	IS:6103-1971			
	a) at 90 °C		35x10 ¹²		820 x 10 ¹²
	b) at 27 ^o C		1500x10 ¹		9026 x 10 ¹²
12	Oxidation stability:	Annexure C			
	a) Neutralisation value, after oxidation , mgKOH/g	of IS:335		0.4	0.0088
	b) Total sludge after oxidation ,% by Wt			0.1	0.0056
13	Ageing Characteristics after Accelerated ageing (open beaker method with copper catalyst)	IS:12177-1987			
	a) Specific Resistance, ohm-cm	IS:6103-1971			
	i) at 27 °c		2.5x10 ¹²		164 x 10 ¹²
	ii) at 90 °c		0.20x10 ¹²		86 x 10 ¹²
	b) Dielectric Dissipation factor (tan delta) at 90°c	IS: 6262-1971		0.2	0.0006
	c) Total acidity, mg KOH/gm	IS:1448(P:2)-1967		0.05	0.0054
	d) Total sludge value ,%by wt	Annex A of IS:12177		0.05	0.0044
14	Presence of oxidation inhibitor	IS:13631-1993	The oil shall not contain antioxidant		Absent
15	Water content , PPM	IS:13567-1992		50	13.80

Health & Safety: See corresponding product MSDS

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