TRANSFORMER OIL

TO IS 335 - 1993 **Speciality Oils & Lubricants**

Transformer Oil335 is an Uninhibited Transformer Oil meeting Bureau of Indian Standards: IS 335 -1993 (Reaffirmed - 2005) Specification

SR NO	TEST PARAMETERS	UNIT	TEST METHOD	SPECIFICATION	
1.	Appearance		Representative sample of the oil shall be examined in a100 mm thick layer at 27Oc	Oil shall be clear, transparent and free from suspended matter or sediment	
2.	Density at 29.5°C	g/ml	0.895 Max.	-	0.89
3.	Kinematic Viscosity at 27°C	cSt	IS 1448 P 25 – 1996	-	27
4	Flash Point, PMCC	o C	IS 1448 P 21- 1970	140	
5	Pour Point	o C	IS 1448 P10 – 1970	-	-6
6	Inter Facial Tension	N / m	IS 6104 – 1971	0.04	
7	Neutralization Value	mg KOH/ gm	IS 1448 P 2 – 1967		
	a) Total Acidity				0.03
	b) Inorganic Acidity/Alkalinity				Nil
8.	Water Content	Ppm	IS 13567 – 1992	50	
9.	Specific Resistance				
	a) at 90o C	ohm - cm		35x1012	
	at 27o C	ohm – cm		1500x1012	
10.	Breakdown Voltage		IS 6792 – 1972		
	New Unfiltered / After Filtration	kV		30 / 60	
11.	Dielectric Dissipation Factor (Tan δ) at 90 o C		IS 6262 – 1971		0.002
12.	Corrosive Sulphur Copper Strip, 140 o C, 19 Hrs		IS 335 Annexure B	Non-corrosive	
13.	Presence of Oxidation Inhibitor	%	IS 13631 – 1982	The oil shall not contain antioxidant additive. Value of 0.05 % max shall be treated as absence of DBPC	
14.	Oxidation Stability at 100 o C, 164 Hrs				
	a) Total Acidity	mg KOH /gm			0.4
	b) Sludge	%			0.1
15.	Ageing characteristics after accelerated ageing (open beaker method with copper catalyst)		IS 12177 – 1987 Method A		
	Specific Resistance at 27 o C	ohm - cm		2.5 x 1012	
	(Resistivity) at 90 o C	ohm - cm		0.2 x 1012	
	Dielectric Dissipation Factor (Tan δ) at 90 o C				0.20
	Total Acidity	mg KOH/ gm			0.05
	Total Sludge	%			0.05

Packing: 210 Liters Net New Mild Steel Drums

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