

TOAP 335

TOAP 335 is an Uninhibited Transformer Oil meeting Bureau of Indian Standards: IS 335-1993 Specification.

Sr No	Characteristics	Unit	Test Method	Guaranteed Data		
				Min	Max	
1	Appearance		Representative sample of the oil shall be examined in a 100mm thick layer at 27°C	Oil shall be clear, transparent and free from suspended matter or sediment		
2	Density at 29.5°C	g/ml	IS 1448 P 16-1997		0.89	
3	Kinematic Viscosity at 27°C	cSt	IS 1448 P 25-1996		27	
4	Flash Point, PMCC	°C	IS 1448 P 21-1970	140		
5	Pour Point	°C	IS 1448 P 10-1970		-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 at a) at 90°C	ohm-cm	IS 6103-1971	35×10 ¹²		
	Specific Resistance at b) at 27°C	ohm-cm		1500×10 ¹²		
10	Breakdown Voltage	kV	IS 6792-1972			
	New Unfiltered/ After Filtrator			30/60		
11	Dielectric Dissipation Factor (Tan δ) at 90°C		IS 6262-1971		0.002	
12	Corrosive Sulphur (Copper Strip, 140°C, 19Hrs)		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°C, 164 Hrs		IS 335 Annexure C			
	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°C		ohm-cm	2.5×10 ¹²	
		(Resistivity) at 90°C		ohm-cm	0.2×10 ¹²	
		Dielectric Dissipation Factor (Tan δ) at 90°C				0.20
		Total Acidity		mg KOH/gm		0.05
		Total Sludge		%		0.05

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