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Products Specification

Transformer Oils

IS-335 Specifications

CHARACTERISTICS	TEST METHOD	MIN	MAX
PHYSICAL PROPERTIES			
APPEARANCE	A representative sample of oil shall be examined in a 100 mm thick layer at 27 °C	The oil shall be clear transparent & free from suspended matter/sediments	
Density@29.5 °C g/cm ³	IS :1448(P-16)-1990		0.89
Kinematic Viscosity@27 °C, cST.	IS:1448(P-25)-1976		27
Interfacial Tension @27 °C, N/M	IS:6104-1971	0.04	
Flash Point, °C (PMCC)	IS:1448(P-21)-1992	140	
Pour Point, °C	IS:1448(P-10)1970		-6
Water content, PPM	IS:13567-1992		50
ELECTRICAL PROPERTIES			
Electric Strength (BDV)	IS:6792-1992		
a) New unfiltered oil, kv (rms)		30	
b) After filtration, kv (rms)		60	
Dielectric dissipation Factor (tan delta) @90 °C	IS:6262-1971		0.002
Specific Resistance, ohm-cm	IS:6103-1971		
a) @ 90 °C		35x10 ¹²	
b) @ 27 °C		1500x10 ¹²	
CHEMICAL PROPERTIES			
Neutralisation Value, mg KOH/g.	IS:1448(p:2)1967		
a) Total acidity, mg.KOH/gm			0.03
b) Inorganic acidity/Alkalinity mgKOH/gm			NIL
Corrosive Sulphur	Annex B(IS:335/1993)		Non-Corrosive
Presence of oxidation inhibitor, %	IS:13631-1993		The oil shall not contain antioxidant
Oxidation stability:			
a) Neutralisation value, after oxidation, mgKOH/g, mgKOH/g	Annexure C of IS-335		0.4
b) Total sludge after oxidation, % by Wt			0.1
Ageing Characteristics after Accelerated ageing (open beaker method with copper catalyst)			
a) Specific Resistance, ohm-cm	IS :12177-1987		
i) at 27 °C			2.5x 10 ¹²
ii) at 90 °C			2.5x 10 ¹²
b) Dielectric Dissipation factor (tan delta) at 90 °C	IS:6262-1971		0.2
c) Total acidity, mg KOH/gm	IS:1448(P:2)-1967		0.05
d) Total sludge value, % by wt	Annex A of IS:12177		0.05