

Product Data Sheet

TRANSPOWER® Make, Transformer oil

IS 335:1993



SL.	CHARACTERISTICS	STANDARD VALUE AS PER IS-335:93	TYPICAL VALUE	TEST METHOD
1	Appearance	The oil shall be clear and transparent and free from suspended matter and sediments	The oil is clear transparent and free from suspended matter and sediments	A representative sample of oil shall be examined in 100mm thick layer at 20°C
2	Density g/cm; at 29.5 °C, Max	0.89	0.890	IS:1448 P-16
3	Kinematic viscosity, cst., Max.			
	at 27 ° C	27	11.50	IS:1448 P-25
	at 40° C	under consideration	-----	
4	Interfacial tension, N/M at 27° C, Min.	0.04	0.048	IS:6104-1970
5	Flash Point, Pensky-Marten (Closed).°C, Min.	140	140	IS:1448 P-21
6	Pour point, ° C Max.	-6	-10	IS:1448 P-10
7	Neutralization Value, Max. a) Total Acidity, mg. KOH/gm b) Inorganic acidity/ alkalinity	0.03 Nil	0.03 Nil	IS:1448 P-2
8	Corrosive Sulphur Copper strips, 19 hrs at 140 °C,	Non corrosive	Non-Corrosive	Annex IS:335
9	Electric Strength (Breakdown Voltage), KV (rms) a) New unfiltered Oil b) Inorganic acidity/ alkalinity	30 The oil shall be filtered if above value not attained to 60 kv	35 65	IS:6792-1972
10	Dielectric dissipation factor (tan Delta) at 90°C Max..	0.002	0.0007	IS:6262-1971
11	Specific resistance (resistivity) , ohm-cm, a) At 90°C , min b) At 27° C , min	35X10 ¹² 1500X10 ¹²	105X10 ¹² 1840X10 ¹²	IS:6103-1971
12	Oxidation Stability: a) Neutralization value , after oxidation for 164 Hrs at 100 Deg. C mg KOH/gm, max. b) Total sludge, 164 Hrs at 100° C wt. %, max.	0.20 0.5	0.05 NIL	ANNEX C OF IS:335
13	Accelerated ageing test (open beaker Method with copper catalyst) 96 Hrs at 115°C			
a)	Specific resistance (resistivity) ohm-cm at 27° C, Min	2.5X10 ¹²	12.96X10 ¹²	IS:6103
b)	Specific resistance (resistivity) ohm-cm at 90° C, Min	0.2X10 ¹²	1.5X10 ¹²	IS:6103
c)	Dielectric dissipation factor (tan delta) at 90° C, Max	0.20	0.10	IS:6262
d)	Total acidity, mg KOH/gm, Max	0.05	NIL	IS:1448 P-2
e)	Total Sludge value % wt., Max	0.05	NIL	IS:12172
14.	Presence of oxidation inhibitor	Oil shall not contain any antioxidant additives	Not present	IS:13631:1992
15.	Water content, ppm, Max	50	17	IS:13567:1992



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QMS 9001:2015 CERTIFIED

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