

DIVYOL TRANS 1

TRANSFORMER OIL – IS 335:2018 TYPE I – UNINHIBITED

Divyol Trans 1 is specially manufactured from carefully selected new generation base oil, possessing excellent electrical properties and conforming to standards as per IS 335:2018 Type I – Uninhibited.

Sr. No.	Characteristics	Test Method	Limits		
1. Function					
1	Viscosity at -40 °C	IS 1448 (Part 25)	12 mm ² /s, max.		
2	Viscosity at 0 °C	IS 1448 (Part 25)	-		
3	Viscosity at -30 °C	IS 1448 (Part 25)	1800 mm ² /s, max.		
	Viscosity at -40 °C	IS 16084	-		
4	Pour point	IS1448 (Part 10/Sec 2)	-40 °C max.		
5	Water content	IEC 60814	1) 30 mg/kg max. for bulk supply 2) 40 mg/kg max. for drum supply		
6	Breakdown voltage	IS 6792	i) 30 KV min. delivered ii) 70 KV after treatment		
7	Density at 20 °C	IS 1448 (Part 16)	0.895 g/ml max.		
8	DDF at 90 °C	IS 16086 / IEC 60247	0.005 max.		
9	Particle content	IS 13236	No general requirement		
2. Refining / Stability					
10	Appearance	-	Clear, free from sediment and suspended matter		
11	Acidity	IEC 62021 -1	0.01 mg KOH/g max.		
12	Interfacial tension mN/m	ASTM D 971	No general requirement		
13	Total sulphur content	ISO 14596 or ASTM D 4294	No general requirement		
14	Corrosive sulphur	DIN 51353	Not corrosive		
15	Potentially corrosive sulphur	IS 16310	Not corrosive		
16	DBDS	IS 16497 (Part 1)	Not detectable (< 5 mg/kg)		
17	Inhibitors of IEC 60666	IS 13631	(U) Uninhibited oil; Not detectable (< 0.01%)		
18	Metal passivator additives of IEC 60666 to IS13631	IS 13631	Not detectable (< 5 mg/kg) or as agreed upon with the purchaser		
19	Other additives	-	-		
20	2-Furfural and related comp, content	IS 15668	Not detectable (< 0.05 mg/kg) for each individual compound		
3. Performance					
21	Oxidation stability	IS 12422 (method C)			
		Test duration (U) Uninhibited Oil: 164 hrs.			
		a) Total acidity		1.9.4 of IS 12422	1.2 mg KOH/g max.
		b) Sludge		1.9.4 of IS 12422	0.8% max.
	c) DDF at 90 °C	1.9.4 of IS 12422	0.500 max.		
22	Gassing tendency	IEC 60628:1985, Method A	No general requirement		
23	ECT	See 6.14	No general requirement		
4. Health, safety and environment					
24	Flash point	IS 1448 (Part 21)	135°C, min.		
25	PCA content	IP 346	3.0 %, max.		
26	PCB content	IS 16082 / ASTM-D-4059	Not detectable (< 2 mg/kg)		

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