



Product Data Sheet

“TRANSPOWER” Transformer Oil (U) uninhibited TYPE I Standard IS 335:2018

CERTIFIED

SL.	CHARACTERISTICS	TEST METHOD	LIMITS
1 Function:-			
1	Viscosity at - 40°C	IS-1448 (Part 25)	15 mm ² /s. Max
2	Viscosity at - 0°C	IS-1448 (Part 25)	1800 mm ² /s, Max
3	Viscosity at - 30°C	IS-1448 (Part 25)	-
	Viscosity at - 40°C	IS-16084	-
4	Pour Point	IS1448 (Part 10 / Sec 2)	- 40°C Max
5	Water Content	IEC 60814	10 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	0.01mg KOH / gm Max.
12	Interfacial Tension mN/m	ASTM D971	No general requirement
13	Total Sulphur Content	ISO 14596 or ASTM D4294	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	Uninhibited oil; (< 0.05%)
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 & related comp, content	IS 15668	Not detectable (< 0.05mg/kg) for each individual compound
3 Performance:-			
21	Oxidation Stability	IS 12422 (method C)	
		Test duration	
		(U) Uninhibited Oil: 164 h	
a)	Total acidity	1.9.4 of IS 12422	1.2 mg KOH/gm 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)



“Transpower®Transformer Oil (U) TYPE I is specially manufactured from carefully selected right type of new generation base oil with good electrical properties and confirms to IS 335:2018 TYPE I –uninhibited



POWERLINK OIL REFINERY LTD

QMS 9001:2015 CERTIFIED

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