

SCHEDULE-R**GUARANTEED TECHNICAL PARTICULARS for****FRESH TRANSFORMER OIL TYPE II-UNINHIBITED CONFIRMING IS:335:2018 and any amendment thereof.**

Name of Manufacturer	
Country of Manufacturer and shipment	
Type of oil	FRESH TRANSFORMER OIL TYPE-II (UNINHIBITED)

	Property	Test Method	Limiting value as per TS	Guaranteed value
A	<u>Function</u>			
	1	Viscosity at 40 ⁰ C	IS 1448 (Part 25)	15mm ² /s, (Max)
	2	Viscosity at 0 ⁰ C	IS 1448 (Part 25)	1800mm ² /s, (Max)
	3	Pour Point	IS 1448 (Part 10/Sec 2)	- 10 ⁰ C, (Max)
	4	Water Content (for drum supply)	IEC 60814	25 mg/kg, (Max)
	5	Breakdown Voltage	IS 6792	30 kV/ 70 kV ⁵⁾ , (Min) 5) After laboratory treatment (see 6.4 of IS)
	6	Density at 20 ⁰ C	IS 1448 (Part 16)	0.895 g/ml, (Max)
	7	DDF at 90 ⁰ C	IS 16086	0.005, (Max)
B	<u>Refining/stability</u>			
	8	Appearance	-	Clear, free from sediment and suspended matter
	9	Acidity	IEC 62021-1	0.01 mg KOH/g, (Max)
	10	Interfacial Tension at 27 ⁰ C	ASTMD971	0.04 N/m (Min)
	11	Corrosive Sulphur	DIN 51353	Not corrosive
	12	Potentially corrosive sulphur	IS 16310	Not corrosive
	13	DBDS	IS 16497 (Part 1)	Not detectable (<5mg/kg)
	14	Inhibitors according to IS 13631/IEC 60666	IS 13631	(U) Un uninhibited oil Not Detectable (<0.01%)
	15	Metal Passivator additives according to IS 13631/IEC 60666	IS 13631	Not detectable (<5mg/kg)
	16	2-Furfural and related compounds content	IS 15668	Not detectable (<0.05 mg/kg) for each individual compound
C	<u>Performance</u>			
	17	Oxidation stability	IS 12422 (Method C) (U) Uninhibited oil : 164 h	
		(a) Total Acidity	1.9.4 of IS 12422	1.2 mg KOH/g, (Max)
		(b) Sludge	1.9.1 of IS 12422	0.8%, (Max)
		(c) DDF at 90 ⁰ C	1.9.6 of IS 12422	0.500, (Max)
D	<u>Health, Safety and Environment (HSE)</u>			
	18	Flash Point	IS 1448 (Part 21)	135 ⁰ C, (Min)
	19	PCA content	IP 346	3% (Max)
	20	PCB content	IS 16082	Not detectable (<2 mg/kg)
E	<u>Reference to standard to which the drums conform</u>			
	21	Standard to which the drum confirms	IS:1783 and any amendment thereof	
	22	Capacity of the standard drum	209 ltr aprox	
	23	Colour and type of paint painted on the outside surface of the drum	coated with suitable primer and finishing paint	
	24	Whether the inside surface of the drum is painted and if so, particulars of the same.	Coated with suitable coating resistant to insulating oil.	
	25	Particulars of the arrangement of making the drum air tight moisture and dust proof.	drum effectively sealed immediately after filling the oil	
	26	Whether the oil and drum bearing ISI certification mark		
	27	Volume of the oil in each drum in litres.		