

### TRAFOL IS335 TIN Type I

TRAFOL IS335 TIN is a premium quality Trace Inhibited Transformer Oil meeting the Bureau of Indian Standards: IS 335 — 2018 Type I specifications possessing excellent electrical and oxidation stability properties.

S. No.	Characteristic	Unit	Test Method	Guaranteed Data	
				Min.	Max.
<b>A.</b>	<b>Function</b>				
1	Viscosity at 40°C	cSt	IS 1448 (Part 25)		12
2	Viscosity at -30°C	cSt	IS 1448 (Part 25)		1800
3	Pour Point	°C	IS 1448 (P 10/ Sec 2)		-40
4	Water Content, Bulk/ Drum	ppm	IEC 60814		30/40
5	Breakdown Voltage		IS 6792		
	As delivered/ After treatment	kV		30 / 70	
6	Density at 20°C	g/ml	IS 1448 (Part 16)		0.895
7	DDF at 90°C	-	IS 16086		0.005
8	Particle content	-	IS 13236	No General Requirement	
<b>B.</b>	<b>Refining/ Stability</b>				
9	Appearance	-	-	Clear, free from sediment and suspended matter	
10	Acidity	mgKOH/gm	IEC 62021-1		0.01
11	Interfacial tension	mN/m	ASTM D971	No General Requirement	
12	Total Sulphur content	%	ISO 14596 or ASTM D4294	No General Requirement	
13	Corrosive Sulphur	-	DIN 51353	Not corrosive	
14	Potential Corrosive Sulphur	-	IS 16310	Not corrosive	
15	DBDS	mg/Kg	IS 16497 (Part 1)	Not detectable (<5)	
16	Inhibitors	%	IS 13631/ IEC 60666	Trace Inhibited (<0.08)	
17	Metal passivator additives	mg/Kg	IS 13631/ IEC 60666	Not detectable (<5)	
18	Other additives	-		Does not contain any other additives	
19	2-Furural and related compounds content	mg/Kg	IS 15668	Not detectable (<0.05) for each individual compound	
<b>C.</b>	<b>Performance</b>				
20	Oxidation Stability		IS 12422 (Method C) Test duration — (I) Inhibited Oil 500 hrs.		
a)	Total acidity	mgKOH/gm	1.9.4 of IS 12422		1.2
b)	Sludge	%	1.9.1 of IS 12422		0.8
c)	DDF at 90°C	-	1.9.6 of IS 12422		0.5
21	Gassing Tendency	-	IEC 60628, Method A	No General Requirement	
22	ECT	-	-	No General Requirement	
<b>D.</b>	<b>Health, Safety and Environment (HSE)</b>				
23	Flash Point	°C	IS 1448 (Part 2)	135	
24	PCA content	%	IP 346		3
25	PCB content	mg/Kg	IS 16082	Not detectable (<2)	

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