

TRAFOL IEC HGX

TRAFOL IEC HGX is high grade Inhibited Transformer Oil meeting the IEC 60296 Edition 5 (2020) specifications and is Type A TVAL. It possesses excellent electrical and oxidation stability characteristics.

S. No.	Characteristic	Unit	Test Method	Guaranteed Data	
				Min.	Max.
A.	Function				
1	Viscosity at 40°C	cSt	ISO 3104		12
2	Viscosity at -30°C	cSt	ISO 3104		1800
3	Pour Point	°C	ISO 3016		- 40
4	Water Content, Bulk/ Drum	ppm	IEC 60814		30/40
5	Breakdown Voltage		IEC 60156		
	As delivered/ After treatment	kV		30 / 70	
6	Density at 20°C	g/ml	ISO 3675 or ISO 12185		0.895
7	DDF at 90°C	-	IEC 60247 or IEC 61620		0.005
B.	Refining/ Stability				
8	Colour	-	ISO 2049		1.5
9	Appearance	-	-	Clear, free from sediment and suspended matter	
10	Acidity	mgKOH/gm	IEC 62021-1 or -2		0.01
11	Interfacial tension	mN/m	EN 14210 or ASTM D971	42	
12	Corrosive Sulphur	-	DIN 51353	Not corrosive	
13	Potential Corrosive Sulphur	-	IEC 62535	Not corrosive	
14	DBDS	mg/Kg	IEC 62697 -1 (in prep.)	Not detectable (<5)	
15	Antioxidants	%	IEC 60666	Inhibited (0.08 — 0.4)	
16	Metal passivator additives	mg/Kg	IEC 60666	Not detectable (<5)	
17	Other additives	-		Does not contain any other additives	
18	2-Furural and related compounds content	mg/Kg	IEC 61198	Not detectable (<0.05) for each individual compound	
C.	Performance				
19	Oxidation Stability		IEC 61125:1992 (Method C) Test duration — (I) Inhibited Oil 500 hrs.		
a)	Total acidity	mgKOH/gm	1.9.4 of IEC 61125:1992		0.3
b)	Sludge	%	1.9.1 of IEC 61125:1992		0.05
c)	DDF at 90°C	-	1.9.6 of IEC 61125:1992, Amendment 1 (2004)+ IEC 60247		0.5
D.	Health, Safety and Environment (HSE)				
20	Flash Point	°C	ISO 2719	135	
21	PCA content	%	IP 346		3
22	PCB content	mg/Kg	IEC 61619	Not detectable (<2)	

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