

TRANSFORMER OIL PRODUCT DATA SHEET

German Technology
Lubricants!

VELVEX-60296 TIT

Is a Trace Inhibited Transformer Oil meeting IEC 60296-2012-02 edition 4.0 Standard Table-2 General Specifications.
It also meets the ASTM D 1275 B Test requirements for Corrosive Sulphur.

Sr. No.	Characteristics	Unit	Test Method	Guaranteed Data	
				Min	Max
1	Appearance		Visual inspection of oil sample in transmitted light Under a thickness of 10 cm At ambient temperature	Clear free from sediment and suspended matter	
2	Density at 20°C	g/ml	ISO 3675 or IEC12185		0.895
3	Kinematic Viscosity at 40° C	cSt	ISO 3104		12
	At-30°C				1800
4	Flash Point, PMCC	°C	ISO 2714	135	
5	Pour Point °C	ISO 3016			-40
6	Inter Facial Tension at 25°C	N/m	EN 14210 or ASTM D 271 (Where it is used as general Requirement)	No General Requirement	
				40 min	
7	Acidity	Mg KOH/gm	IEC 62021-1 or IEC62021-2		0.01
8	Water Content, Bulk/ Drum ,IBC	Mg/kg	IEC 60814		30/40
9	Break Down Voltage As Delivered/After Treatment	KV		30/70	
10	Dielectric Dissipation factor(Tan Delta) at 90° C & 40 to 60 Hz		IEC 60247 or IEC 61620		0.005
11	Corrosive Sulphur	-			
	Silver Strip, 100°C, 18 Hrs	-	DIN 51353	Non Corrosive	
	Copper Strip,150° C,48 Hrs	-	ASTM D 1275 B	Non Corrosive	
12	Potentially Corrosive Sulphur		IEC 62535	Non Corrosive	
13	DBDS	Mg/kg	IEC 62697-1(in preparation)	Not Detectable(<5mg/kg)	
14	Total Sulphur Content	%	IP373 or ISO 14596	No General Requirement	
15	Inhibitors of IEC 60666 (Anti Oxidant additives)	%	IEC60666	(T) Trace Inhibited Oil 0.08	
16	Metal Passivator additives of IEC 60666	Mg/kg	IEC 60666	Not Detectable(<5mg/kg)	
17	Other Additives			Does not contain any additive other than antioxidant additive	
18	Oxidation stability at 120°C,332 Hrs		IEC 661125		
	Total Acidity	mg KOH/gm	1.9.4 of IEC 61125:1992		1.2
	Sludge	%	1.9.1 of IEC61125:1992		0.8
	DDF at 90°C		1.9.6 of IEC61125 Amendment1(2004) + IEC60247		0.500
19	Gassing Tendency	uL/min	IEC 60628:1985 Method A	No General Requirement	
20	PCA Content	%	IP 346	3	
21	PCB Content	Mg/kg	IEC61619	Not detectable(<2mg/kg)	
22	2- Furfural and related compounds content	Mg/gm	IEC:61198	Not detectable(<0.05mg/kg) (for each individual compound)	
23	Stray Gassing		See 6.22 of IEC60296 See 6.14 of IEC 60296 IEC 60970	No General Requirement	
24	ECT			No General Requirement	
25	Particle Content			No General Requirement	