

VELVEX – 60296 HGIT

Is a severely Hydro treated High Grade Inhibited Transformer Oil with higher Oxidation stability and low sulphur content meeting the the IEC 60296-2012-02 Edition 4.0 Standard Requirement Specific Requirements for Special Applications Specification. It also meets the ASTM D 1275 B Test Requirement 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 IEC 12185		0.895
3	Kinematic Viscosity at 40° C	cSt	ISO3104		12
	Kinematic Viscosity at -30° C				1800
4	Flash Point,PMCC	° C	ISO 2719	135	
5	Pour Point°C		ISO 3016	-40	
6	Inter Facial Tension at 25°C	mN/m	EN 14210 or ASTM D 971 (Where it is used as general requirement)	No general requirement	
7	Acidity	Mg KOH/gm	IEC 62021-1 or IEC 62021-2	40 min	0.01
8	Water Content, Bulk/Drum,IBC	Mg/kg	IEC 60814		30/40
9	Break Down Voltage As Delivered/After Treatment	KV	IEC 60156	30/70	
10	Dielectric Dissipation Factor (Tan Delta) at 90° & 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	%	IP 373 or ISO 14596		0.005
15	Anti oxidant Additives	%	IEC 60666	0.08	0.4
16	Metal Passivator additives of IEC 60666		IEC:60666	Not detectable (< 5 mg/kg)	
17	Other Additives			Does not contain any additive other than antioxidant additive	
18	Oxidation Stability at 120° C, 500 Hrs				
	Total Acidity	Mg KOH/gm	IEC 61125 Method C 1.9.4 of IEC 61125:1992		0.3
	Sludge	%	1.9.1 of IEC61125:1992		0.05
	DDF at 90° C		1.9.6 of IEC61125 amendment1 (2004 +IEC 60247		0.05
19	Gassing Tendency	L/min	IEC60628:1985 Method A	No general requirement	
20	PCA Content	%	IP 346		3
21	PCB Content	Mg/kg	IEC 61619	Not detectable (<2mg/kg)	
22	2-Furfural and related compounds content	Mg/kg	IEC 61198	Not detectable (<0.05 mg/kg) for each individual compound)	
23	Stray Gassing		See 6.22 of IEC 60296	No general requirement	
24	ECT		See 6.22 of IEC 60296	No general requirement	
25	Particle Content		IEC 60970	No General Requirement	