

TRANSFORMER OIL PRODUCT DATA SHEET

German Technology
Lubricants!

VELVEX - UT

Is an Uninhibited Transformer Oil meeting BIS: IS:335 (Reaffirmed 2005) Specification

Sr. No.	Characteristics	Unit	Test Method	Guaranteed Data	
				Min	Max
1	Appearance		Representative Sample of the Oil shall be examined in a 100 mm thick layer at 27° C	Oil shall be clear Transparent and free from suspended matter Or sediment	
2	Density at 29.5°C	g/ml	IS 1448 P16-1997		0.89
3	Kinematic Viscosity at 27° C	cSt	IS 1448 P25-1996		27
4	Flash Point, PMCC	°C	IS 1448 P21-1970	140	
5	Pour Point	°C	IS 1448 P10-1970		-6
6	Inter Facial Tension	N/mm	IS 6104-1971	0.04	
7	Neutralization Value	Mg KOH/gm	IS 1448 P2-1967		
	a) Total Acidity				0.03
	b) Inorganic Acidity/Alkalinity				Nil
8	Water Content	ppm	IS 13567-1992		50
9	Specific Resistance	Ohm-cm	IS 6103 -1972		
	a) At 90° C			35 X 10 ¹²	
	b) At 27° C			1500 X ¹²	
10	Break Down Voltage New Unfiltered/After Filtration	KV	IS6792 -1972	30/60	
11	Dielectric Dissipation Factor (Tan delta) at 90°C		IS 6262-1971		0.002
12	Corrosive Sulphur Copper Strip, 140°C, 19 Hrs		IS 335 Annexure B	Non Corrosive	
13	Presence of Oxidation Inhibitor	%	IS 13631 -1982	The oil shall not contain antioxidant additive value of 0.05% max shall be treated as absence of DBPC	
14	Oxidation Stability at 100°C, 164 hrs	mg KOH/gm %	IS 335 Annexure C		
	a) Total Acidity				0.4
	b) Sludge				0.1
15	Ageing Characteristics after accelerated ageing (Open breaker method with copper catalyst)	%	IS 12177-1987 Method A		
	Specific Resistance @ 27° C	Ohm-cm		2.5x10 ¹²	
	Resistivity at 90° C	Ohm-cm		0.2x10 ¹²	
	DDF(Tan delta) at 90° C				0.2
	Total Acidity	mg KOH/gm			0.05
	Total Sludge	%			0.05