



## POWEROIL TO 16

POWEROIL TO 16 is a specially formulated highly hydrotreated Uninhibited Transformer Oil of high flash point suitable for Pad Mounted Transformers and similar electrical equipments of severe applications.

Sr No	Characteristics	Unit	Test Method	Guaranteed Data	
				Min	Max
1	Appearance		Simple visual examination of the oil sample	Clear and free from sediment and suspended matter	
2	Colour		ASTM D 1500		4.0
3	Density at 15 ° C at 29.5 ° C	kg / dm <sup>3</sup>	IS 1448 P 16 - 1997		0.878 0.869
3	Kinematic Viscosity at 100 ° C at 150 ° C	cSt	IS 1448 P 25 - 1996		16 6
4	Flash Point, COC	° C	ASTM D 92	265	
5	Fire Point		ASTM D 92	300	
6	Pour Point	° C	IS 1448 P10 - 1970		- 18
7	Inter Facial Tension	N / m	IS 6104 - 1971	0.033	
8	Water Content	ppm	IS 13567 - 1992		50
9	Specific Resistance at 50 ° C	ohm - cm	IS 6103 - 1971	50 x 10 <sup>12</sup>	
10	Breakdown Voltage		IS 6792 - 1972		
	As delivered	kV		30	
11	Dielectric Dissipation Factor (Tan δ) at 25 ° C at 100 ° C		IS 6262 - 1971		0.01 0.7
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 140 ° C, 24 Hrs , 250 psi				
	Sludge	%			0.06

(Version # 4 1<sup>st</sup> October , 2014)

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