



POWEROIL TO -SE

POWEROIL TO- SE is a Synthetic Ester based , less flammable Transformer Oil with superior oxidation stability meeting IS 16081: 2013 & IEC 61099: 2010 standards.

Sr	Characteristics	Unit	Test Method	Specification	Typical Value
1.	Color		ISO 2211	Max. 200 Hazen	150
2.	Appearance		Visual	Clear, free from sediments and suspended matter	Clear, free from sediments and suspended matter
3.	Density at 20 ° C	kg/dm³	ISO 3675 or ISO 12185	Max. 1000	970
4.	Kinematic Viscosity at 40 ° C	mm ² /sec	ISO 3104/ ASTM D 7042	Max. 35	29
5.	at - 20 °C	mm ² /sec	ISO 3104/ ASTM D 7042	Max. 3000	1500
6.	Flash Point	°C	ISO 2719	Min. 250	256
7.	Fire Point	°C	ISO 2592 / ASTM D92	Min. 300	310
8.	Pour Point	°C	ISO 3016	Max 45	-45
B. CHEMICAL					
1.	Water content	mg /kg	IEC 60814	Max. 200	100
2.	Acidity	mg KOH/g	IEC 62021-1 or 2	Max. 0.03	0.02
3.	Oxidation Stability at 120 ° C, 164 Hrs.		IEC 61125 Method C		
	Total Acidity	mg KOH /g	1.9.4 of IEC 61125 : 1992	Max. 0.3	0.1
	Total Sludge	%	1.9.1 of IEC 61125 : 1992	Max. 0.01	0.005
C. ELECTRICAL					
1.	Breakdown Voltage As received (Untreated)	k∨	IEC 60156	Min. 45	60
2.	Dielectric Dissipation Factor (Tan δ)at 90 °C & 50 Hz	-	IEC 60247	Max. 0.03	0.015
3.	DC Resistivity at 90 ° C	GΩ.m	IEC 60247	Min.2	12

Remarks: POWEROIL Transformer Oil –SE (Synthetic Ester) is also Readily Biodegradable tested as per US EPA, OECD 301B. Note: These are present typical values. Variations if any in these typical values will be with the specification standard.

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