

**POWEROIL TO 1020 60 U**

POWEROIL TO 1020 60 U is an Uninhibited Transformer Oil meeting Type I of IS 335:2018 (Fifth Revision)

Standard Table 2 - General Specifications.

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	IS 1448 ( Part 16 )		0.895
3	Kinematic Viscosity at 40 ° C	mm <sup>2</sup> / sec	IS 1448 ( Part 25 )		12
	at - 30 ° C		IS 1448 ( Part 25 )		1800
4	Flash Point, PMCC	° C	IS 1448 ( Part 21 )	135	
5	Pour Point	° C	IS 1448 ( Part 10/Sec 2)		- 40
6	Inter Facial Tension at 25 ° C	mN / m	ASTM D 971	No General Requirement 40 min	
7	Acidity	mg KOH/ g	IEC 62021-1		0.01
8	Water Content, Bulk/ Drum, IBC	mg / kg	IEC 60814		30 / 40
9	Breakdown Voltage		IS 6792		
	As Delivered / After Treatment	kV		30 / 70	
10	Dielectric Dissipation Factor (Tan δ) at 90 ° C & 40 to 60 Hz		IS 16086		0.005
11	Corrosive Sulphur Silver Strip, 100 ° C, 18 Hrs.		DIN 51353	Not Corrosive	
12	Potentially Corrosive Sulphur		IS 16310	Not Corrosive	
13	DBDS	mg / kg	IS 16497 ( Part 1 )	Not Detectable (< 5 mg/kg )	
14	Total Sulphur Content	%	ISO 14596 / ASTM D 4294	No General Requirement	
15	Inhibitors according to IS 13631 / IEC 60666	%	IS 13631	( U ) Uninhibited Oil Not Detectable (< 0.01 % )	
16	Metal Passivator additives	mg / kg	IS 13631 / IEC 60666	Not Detectable (< 5 mg/kg )	
17	Other Additives			Does not contain any additives	
18	Oxidation Stability at 120 ° C, 164 Hrs.		IS 12422 ( Method C )		
	Total Acidity	mg KOH / g	1.9.4 of IS 12422		1.2
	Sludge	%	1.9.1 of IS 12422		0.8
	DDF at 90 ° C		1.9.6 of IS 12422		0.500
19	Gassing Tendency	µ L / min	IEC 60628 , Method A	No General Requirement	
20	PCA Content	%	IP 346		3
21	PCB Content	mg / kg	IS 16082	Not Detectable (< 2mg /kg)	
22	2 – Furfural and related compounds content	mg / kg	IS 15668	Not Detectable (< 0.05 mg/kg ) for each individual compound	
23	ECT		See 6.14 of IS 335:2018	No General Requirement	
24	Particle Content		IS 13236	No General Requirement	

Also conforms to IEC 60296: 2012, Fourth Revision Standard – (U - Uninhibited) Table – 2 General Specification.

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**Product Data Sheet**  
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