

**POWEROIL TO 1020 60 U**

POWEROIL TO 1020 60 U is a Type B, TVBU Uninhibited Transformer Oil meeting IEC 60296 : 2020 Edition 5.0 Standard Table – 4 General Specifications. It also meets the ASTM D 1275 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	Color		ISO 2049		1.5
3	Density at 20 ° C	g /ml	ISO 3675 or IEC 12185		0.895
4	Kinematic Viscosity at 40 ° C	mm <sup>2</sup> / sec	ISO 3104 or ASTM D 7042		12
	at - 30 ° C				1800
5	Flash Point, PMCC	° C	ISO 2719	135	
6	Pour Point	° C	ISO 3016		- 40
7	Inter Facial Tension at 25 ° C	mN / m	ASTM D 971	40	
8	Acidity	mg KOH/ g	IEC 62021-1or IEC 62021-2		0.01
9	Water Content, Bulk/ Drum, IBC	mg / kg	IEC 60814		30 / 40
10	Breakdown Voltage		IEC 60156		
	As Delivered / After Treatment	kV		30 / 70	
11	Dielectric Dissipation Factor (Tan δ)at 90 ° C & 40 to 60 Hz		IEC 60247 or IEC 61620		0.005
12	Corrosive Sulphur Silver Strip, 100 ° C, 18 Hrs. Copper Strip , 150 ° C, 48 Hrs.		DIN 51353 ASTM D 1275	Not Corrosive Not Corrosive	
13	Potentially Corrosive Sulphur		IEC 62535	Not Corrosive	
14	DBDS	mg / kg	IEC 62697-1	Not Detectable (< 5 mg/kg )	
15	Inhibitors according to IEC 60666	%	IEC 60666	( U ) Uninhibited Oil Not Detectable (< 0.01 % )	
16	Metal Passivator additives according to IEC 60666	mg / kg	IEC 60666	Not Detectable (< 5 mg/kg )	
17	Other Additives			Does not contain any additives	
18	Oxidation Stability at 120 ° C, 164 Hrs.		IEC 61125 Method C		
	Total Acidity	mg KOH /g	4.8.4 of IEC 61125:2018		1.2
	Sludge	%	4.8.1 of IEC 61125:2018		0.8
	DDF at 90 ° C		4.8.5 of IEC 61125:2018		0.500
19	PCA Content	%	IP 346		3
20	PCB Content	mg / kg	IEC 61619	Not Detectable (< 2mg /kg)	
21	2 – Furfural and related compounds content	mg / kg	IEC 61198	Not Detectable (< 0.05 mg/kg ) for each individual compound	