

**POWEROIL TO 1020 AUT**

POWEROIL TO 1020 AUT is a Trace Inhibited Transformer Oil meeting the ASTM D 3487 - 2016 Type I Standard Specification. It also meets the ASTM D 1275 B Test requirement for Corrosive Sulphur.

Sr No	Characteristics	Unit	Test Method	Guaranteed Data	
				Min	Max
1	Visual Examination		ASTM D 1524	Clear and bright	
2	Aniline Point	° C	ASTM D 611	63	
3	Color		ASTM D 1500		0.5
4	Specific Gravity 15 ° C / 15 ° C		ASTM D 1298 / D 4052		0.91
5	Kinematic Viscosity at 100 ° C	mm <sup>2</sup> /s	ASTM D 445		3.0
	at 40 ° C				12.0
	at 0 ° C				76
6	Flash Point, COC	° C	ASTM D 92	145	
7	Pour Point	° C	ASTM D 97		- 40
8	Inter Facial Tension at 25 ° C	mN/m	ASTM D 971	40	
9	Neutralization Number, Total Acid Number	mg KOH/ g	ASTM D 974		0.03
10	Water Content	ppm	ASTM D 1533		35
11	Dielectric breakdown voltage at 60 Hz VDE electrodes , 1 mm gap 2 mm gap	kV	ASTM D 1816	20	
				35	
12	Dielectric breakdown Voltage, Impulse conditions, negative polarity point	kV	ASTM D 3300	145	
13	Dissipation Factor ( or power factor) at 60 Hz 25 ° C 100 ° C	%	ASTM D 924		0.05
					0.30
14	Corrosive Sulphur		ASTM D 1275	Non Corrosive	
15	Oxidation Inhibitor Content	%	ASTM D 2668		0.08
16	Oxidation Stability at 110 ° C, 72 Hrs.		ASTM D 2440		
	Total Acid Number	mg KOH /g			0.5
	Sludge at 110 ° C , 164 Hrs.	%			0.15
	Total Acid Number	mg KOH /g			0.6
	Sludge	%			0.3
17	Gassing Tendency	µ L / min	ASTM D 2300		+30
18	Furanic compounds	µg/L	ASTM D 5837		25
19	PCB Content	ppm	ASTM D 4059	Not detectable	