



POWEROIL TO 1020 AUT

POWEROIL TO 1020 AUT is a Trace Inhibited Transformer Oil meeting the ASTM D 3487 - 2009 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		Simple visual examination of the oil sample	Clear and bright	
2	Aniline Point	° C	ASTM D 611	63	
3	Colour		ASTM D 1500		0.5
4	Specific Gravity 15 ° C / 15 ° C		ASTM D 1298		0.91
5	Kinematic Viscosity at 100 ° C	cSt (SUS)	ASTM D 445 / D 88		3.0 (36)
	at 40 ° C				12.0 (66)
	at 0 ° C				76 (350)
6	Flash Point, COC	° C	ASTM D 92	145	
7	Pour Point	° C	ASTM D 97		- 40
8	Inter Facial Tension at 25 ° C	dynes / cm	ASTM D 971	40	
9	Neutralization Number, Total Acid Number	mg KOH/ gm	ASTM D 974		0.03
10	Water Content	ppm	ASTM D 1533		35
11	Breakdown Voltage at 60 Hz Disc electrode	kV	ASTM D 877	30	
12	Breakdown Voltage Impulse conditions 25 ° C , needle negative to sphere grounded, 1- in (25.4 mm) gap	kV	ASTM D 3300	145	
13	Dielectric Dissipation Factor (Tan δ) at 60 Hz at 25 ° C at 100 ° C		ASTM D 924		0.05
					0.30
14	Corrosive Sulphur Copper Strip, 140 ° C, 19 Hrs Copper Strip , 150 ° C, 48 Hrs		ASTM D 1275 A ASTM D 1275 B	Non Corrosive Non Corrosive	
15	Oxidation Inhibitor Content	%	ASTM D 1473 or D 2668		0.08
16	Oxidation Stability at 110 ° C, 72 Hrs		ASTM D 2440		
	Total Acid Number	mg KOH /gm			0.5
	Sludge	%			0.15
	at 110 ° C , 164 Hrs				
	Total Acid Number	mg KOH /gm			0.6
	Sludge	%			0.3
17	Gassing Tendency at 80 ° C Procedure B Test Voltage 10 kV	µ L / min	ASTM D 2300 by Procedure B		+ 30
18	PCB Content	ppm	ASTM D 4059	Not Detectable	

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