

POWEROIL TO HFLL

POWEROIL TO - HFLL is a Fire- Resistant Transformer Oil with high Flash and Fire point, lower sulphur content meeting the ASTM D 5222-16 standard.

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		125
3	Color		ASTM D 1500		2.5
4	Specific Gravity 15 ° C / 15 ° C		ASTM D 1298 / D 4052		0.91
5	Kinematic Viscosity at 100 ° C	mm ² /s	ASTM D 445		14
	at 40 ° C				130
	at 0 ° C				2500
6	Flash Point, COC	° C	ASTM D 92	275	
7	Fire Point , COC	° C	ASTM D 92	300	
8	Pour Point	° C	ASTM D 97		- 21
9	Inter Facial Tension at 25 ° C	mN/m	ASTM D 971	40	
10	Neutralization Number, Total Acid Number	mg KOH/ g	ASTM D 974		0.03
11	Water Content	ppm	ASTM D 1533		35
12	Dielectric breakdown voltage at 60 Hz	kV	ASTM D 877	30	
13	Dissipation Factor (or power factor)	%	ASTM D 924		
	at 60 Hz				0.05
	25 ° C				0.30
14	Corrosive Sulphur			Non Corrosive	
	Copper Strip , 150 o C , 48 Hrs. Silver Strip , 100 o C , 18 Hrs.		ASTM D 1275 DIN 51353	Non Corrosive	
15	Potentially Corrosive Sulphur		IEC 62535	Non Corrosive	
16	Inorganic chlorides and sulfides		ASTM D 878-1986	None	
17	Oxidation Inhibitor Content	%	ASTM D 2668	0.08	0.4
18	Oxidation Stability		ASTM D 2440		
	at 110 ° C, 72 Hrs.				
	Total Acid Number	mg KOH /g			0.30
	Sludge	%			0.15
	at 110 ° C , 164 Hrs.				
18	Total Acid Number	mg KOH /g			0.60
	Sludge	%			0.30
19	Oxidation Stability (Pressure vessel test)	minutes	ASTM D 2112	195	
20	Gassing Tendency	µ L / min	ASTM D 2300		+30
21	PCA Content	%	BS 2000 Part 346		3
22	PCB Content	ppm	ASTM D 4059	Not detectable (< 2 mg/kg)	
23	2 Furfural content and related compounds contents	mg/kg	IEC 61198	Not detectable (< 0.05 mg/kg)	