

Petroleum Specialities FZE

Wholly owned subsidiary of Apar Industries ltd.

POWEROIL[®] Powering Ahead

POWEROIL TO 1020 60 HX

POWEROIL TO 1020 - 60 HX is a Type A, TVAI High Grade Inhibited Transformer Oil with higher oxidation stability and lower Sulphur content meeting the IEC 60296 : 2020 Edition 5.0 Standard Table – 3- 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		0.5
3	Density at 20 ° C	g /ml	ISO 3675 or IEC 12185		0.895
4	Kinematic Viscosity at 40 ° C	mm ² /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	43	
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		IEC 60247 or IEC 61620		0.005
	(Tan δ)at 90 ° C & 40 to 60 Hz				
12	Corrosive Sulphur				
	Silver Strip, 100 ° C, 18 Hrs.		DIN 51353	Not Corrosive	
	Copper Strip , 150 ° C, 48 Hrs		ASTM D 1275	Not Corrosive	
13	Potentially Corrosive Sulphur		IEC 62535	Not Corrosive	
14	Total Sulphur content	%	ISO 14596 or ISO 8754		0.05
15	DBDS	mg / kg	IEC 62697-1	Not Detectable (< 5 mg/kg)	
16	Inhibitors according to IS 13631 /	%	IEC 60666	(I)Inhibited Oil	
	IEC 60666			(0.08 % to 0.40 %)	
17	Metal Passivator additives according to	mg / kg	IEC 60666	Not Detectable	(< 5 mg/kg)
	IS 13631 / IEC 60666				
18	Other Additives			Does not contain any additives	
				other than antio	kidant additive
19	Oxidation Stability at 120 ° C, 500 Hrs.		IEC 61125 Method C		
	Total Acidity	mg KOH /g	4.8.4 of IEC 61125:2018		0.3
	Sludge	%	4.8.1 of IEC 61125:2018		0.05
	DDF at 90 ° C		4.8.5 of IEC 61125:2018		0.05
20	PCA Content	%	IP 346		3
21	PCB Content	mg / kg	IEC 61619	Not Detectable	(< 2mg /kg)
22	2 – Furfural and related compounds	mg / kg	IEC 61198	Not Detectable (< 0.05 mg/kg)	
	content			for each individ	ual compound

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23	Stray Gassing under thermo-oxidative stress		Procedure in clause A.4	4.4	
	Hydrogen (H2)	µl/l	(oil saturated with air) in the	Non Stray Gassing (< 50)	
	Methane (CH4)	µl/l	presence of copper	Non Stray Gassing (< 50)	
	Ethane (C2H6)	µl/l		Non Stray Gassing (< 50)	

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