APAR
Tomorrow's solutions today

POWEROIL®
Powering Ahead

POWEROIL TO 1020 60 HX

POWEROIL TO 1020 60 HX is a High Grade Inhibited Transformer Oil with higher oxidation stability and lower Sulphur content meeting Type I of IS 335:2018 (Fifth Revision) Standard – Specific Requirements for Special Applications Specification.

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	Density at 20 ° C	g /ml	IS 1448 (Part 16)		0.895
3	Kinematic Viscosity at 40 ° C	mm ^{2} / sec	IS 1448 (Part 25)		12
	at - 30 ° C		IS 1448 (Part 25)		1800
4	Flash Point, PMCC	° C	IS 1448 (Part 21)	135	
5	Pour Point	° C	IS 1448 (Part 10/Sec 2)		- 40
6	Inter Facial Tension at 25 ° C	mN / m	ASTM D 971	No General Requirement 40 min	
7	Acidity	mg KOH/ g	IEC 62021-1		0.01
8	Water Content, Bulk/ Drum, IBC	mg / kg	IEC 60814		30 / 40
9	Breakdown Voltage		IS 6792		
	As Delivered / After Treatment	kV		30 / 70	
10	Dielectric Dissipation Factor (Tan δ)at 90 ° C & 40 to 60 Hz		IS 16086		0.005
11	Corrosive Sulphur Silver Strip, 100 ° C, 18 Hrs.		DIN 51353	Not Corrosive	
12	Potentially Corrosive Sulphur		IS 16310	Not Corrosive	
13	DBDS	mg / kg	IS 16497 (Part 1)	Not Detectable (< 5 mg/kg)	
14	Total Sulphur Content	%	ISO 14596 / ASTM D 4294	No General Requirement	
15	Inhibitors according to IS 13631 / IEC 60666	%	IS 13631	(I) Inhibited Oil (0.08 % to 0.40 %)	
16	Metal Passivator additives according to IS 13631 / IEC 60666	mg / kg	IS 13631	Not Detectable (< 5 mg/kg)	
17	Other Additives			Does not contain any additives other than antioxidant additive	
18	Oxidation Stability at 120 ° C, 500 Hrs		IS 12422		
	Total Acidity	mg KOH /g	4.8.4 of IS 12422		0.3
	Sludge	%	4.8.1 of IS 12422		0.05
	DDF at 90 ° C		4.8.5 of IS 12422		0.05
19	Gassing Tendency	μ L / min	IEC 60628 , Method A	No General Requirement	
20	PCA Content	%	IP 346		3
21	PCB Content	mg / kg	IS 16082	Not Detectable (< 2mg /kg)	
22	2 – Furfural and related compounds content	mg / kg	IS 15668	Not Detectable (< 0.05 mg/kg) for each individual compound	
23	ECT		See 6.14 of IS 335:2018	No General Requirement	
24	Particle Content		IS 13236	No General Requirement	

Also conforms to IEC 60296: 2012, Fourth Revision Standard – (I – Inhibited) - Specific Requirements for Special Applications Specification.

Disclaimer: APAR makes no warrantees, representation or conditions of any kind expressed or implied for use with respect to these products. Final determination of suitability of the products for the application contemplated by the user is solely their responsibility.