

## TOAP 1020-60U

TOAP 1020-60 U is an Uninhibited Transformer Oil meeting the IEC 60296- 2003- 11, 3<sup>rd</sup> Edition 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	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	Kg/dm <sup>3</sup>	ISO 3675 or IEC 12185		0.895	
3	Kinematic Viscosity at 40°C	mm <sup>2</sup> /sec	ISO 3104		12	
	at -30°C				1800	
4	Flash Point, PMCC	°C	ISO 2719	135		
5	Pour Point	°C	ISO 3016		-40	
6	Inter Facial Tension at 25°C	mN/m	ISO 6295 (Where it is used as general requirement)	No General Requirement 40 min		
7	Acidity	mg KOH/gm	IEC 62021-1		0.01	
8	Water Content, Bulk/Drum	mg/kg	IEC 60814		30/40	
9	Breakdown Voltage AS Delivered/After Treatment	kV	IEC 60156			
				30/70		
10	Dielectric Dissipation Factor (Tanδ) 90°C & 40 to 60 Hz		IEC 60247 or IEC 61620		0.005	
11	Corrosive Sulphur			Non Corrosive		
	Silver Strip, 100°C, 18Hrs Copper Strip, 150°C, 48Hrs		DIN 51353 ASTM D 1275 B	Non Corrosive		
12	Total Sulphur Content	%	BS 2000 Part 373 or ISO 14596	No General Requirement		
13	Anti Oxidant Addictives	%	IEC 60666	(U) Uninhibited Oil- Not Detectable		
14	Oxidation Stability		IEC 61125 Method C			
	at 120°C, 164 Hrs	Total Acidity		mg KOH/gm		1.2
		Sludge		%		0.8
	DDF at 90°C		IEC 60247		0.500	
15	Gassing Tendency	μL/min	IEC 60628- A	No General Requirement		
16	PCA content	%	BS 2000 Part 346		3	
17	PCB content	mg/kg	IEC 61619	Not Detectable		
18	2- Furfural Content	mg/kg	IEC 61198		0.1	

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