

JETROF-A Inhibited Transformer Insulating Oil

- Description:** JETROF-A, an inhibited high-grade oil that meets the IEC 60296:2020 edition 5.0 standards and is classified as Type A, TVAL. JETROF-A has been expertly developed to offer outstanding resistance to oil degradation, ensuring exceptional oxidation stability. This translates to an extended lifespan for transformers and reduced maintenance needs.
- Characteristics:** JETROF-A offers several advantageous characteristics;
- Low Pour point.
 - Reliable oxidation stability. Developed and formulated to deliver good resistance to oil degradation, this grade also provides good oxidation stability for enhanced transformer life and minimum maintenance.
 - Non corrosive as tested by all present methods, DIN 51353, ASTM D1275 method B and IEC 62535 method.
 - Low viscosity and viscosity index offering excellent and fast heat transfer ensuring efficient removal of heat from core and windings.
- Applications :** JETROF-A is highly suitable for all grades of
- Power Transformers, Distribution Transformers
 - Circuit Breakers,
 - Oil filled switches
 - X-ray equipment.
- Quality:**
- JETROF-A possessing excellent electrical properties and conforming to IEC 60296:2020 edition 5.0 Standard Table 3 general specifications. It also meets the ASTM D 1275 test requirements for corrosive sulphur.
- Compatibility:** JETROF-A is compatible with any allied inhibited transformer oil.
- Storage Precautions:** Extreme care is taken while packing these products, including filling of drums in inert atmosphere, as Electrical Insulating oils / Transformer oils are very sensitive to very minute concentrations of contaminants, such as moisture, particulate matter, fibres, etc. Hence, care should be taken to store in a clean and dry condition. It is strongly recommended that all storage tanks / drums be maintained such that oil is not in contact with atmospheric air. Also Oils should always be stored indoors in climate controlled environments

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PROPERTY	UNIT	TEST METHOD	SPECIFICATION LIMITS	
			MIN	MAX
1 - Function				
Appearance			Clear, free from sediment and suspended matter	
Colour		ISO 2049		0.5
Viscosity, 40°C	mm ² /s	ISO 3104		12.0
Viscosity, -30°C	mm ² /s	ISO 3104		1800
Pour point	°C	ISO 3016		-40
Water content	mg/kg	IEC 60814		30
Breakdown voltage				
- Before treatment	kV	IEC 60156	30	
- After treatment	kV		70	
Density, 20°C	kg/dm ³	ISO 12185		0.895
DDF at 90°C		IEC 60247		0.005
2 - Refining/stability				
Appearance		IEC 60296	Clear, free from sediment	
Acidity	mg KOH/g	IEC 62021		0.01
Interfacial tension	mN/m	EN 14210	40	
Corrosive sulphur		DIN 51353	non-corrosive	
Potentially corrosive sulphur		IEC 62535	non-corrosive	
Corrosive sulphur		ASTM D 1275 B	non-corrosive	
DBDS	mg/kg	IEC 62697-1		Not detectable
Antioxidant	wt %	IEC 60666		0.08%- 0.4%
Metal passivator additives	mg/kg	IEC 60666		Not detectable(<2mg/kg)
2-Furfural and related compounds content	mg/kg	IEC 61198		Not detectable
3 - Performance				
Oxidation stability at 120°C,500 h		IEC 61125 C		
Total acidity	mg KOH/g			0.3
Sludge	wt %			0.05
DDF at 90°C				0.05
4 - Health, safety and environment (HSE)				
Flash point, PM	°C	ISO 2719	135	
PCA	wt %	IP 346		3
PCB		IEC 61619	not detectable	

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