

JETROF-A

Inhibited Transformer Insulating Oil · IEC 60296:2020 ed. 5 · Type A, TVAL

DESCRIPTION

JETROF-A is an inhibited high-grade oil that meets IEC 60296:2020 edition 5.0 standards and is classified as Type A, TVAL. It has been expertly developed to offer outstanding resistance to oil degradation, ensuring exceptional oxidation stability — an extended lifespan for transformers and reduced maintenance needs.

CHARACTERISTICS

- Low pour point
- Reliable oxidation stability: good resistance to oil degradation for enhanced transformer life and minimum maintenance
- Non-corrosive as tested by all present methods: DIN 51353, ASTM D1275 method B and IEC 62535
- Low viscosity offering excellent, fast heat transfer — efficient removal of heat from core and windings

APPLICATIONS

- Power transformers and distribution transformers
- Circuit breakers
- Oil-filled switches
- X-ray equipment

QUALITY

Possesses excellent electrical properties, conforming to IEC 60296:2020 edition 5.0 Standard Table 3 general specifications. Also meets ASTM D1275 test requirements for corrosive sulphur.

COMPATIBILITY

JETROF-A is compatible with any allied inhibited transformer oil.

STORAGE PRECAUTIONS

Extreme care is taken in packing, including filling of drums in an inert atmosphere, as insulating oils are very sensitive to minute concentrations of contaminants (moisture, particulate matter, fibres). Store in a clean, dry condition; keep storage tanks/drums so that oil is not in contact with atmospheric air. Store indoors in climate-controlled environments.

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SPECIFICATION LIMITS (IEC 60296:2020, TABLE 3)

PROPERTY	UNIT	TEST METHOD	LIMIT
1 — Function			
Appearance	-	-	Clear, free from sediment
Colour	-	ISO 2049	max 0.5
Viscosity at 40 °C	mm ² /s	ISO 3104	max 12.0
Viscosity at -30 °C	mm ² /s	ISO 3104	max 1800
Pour point	°C	ISO 3016	max -40
Water content	mg/kg	IEC 60814	max 30
Breakdown voltage — before treatment	kV	IEC 60156	min 30
Breakdown voltage — after treatment	kV	IEC 60156	min 70
Density at 20 °C	kg/dm ³	ISO 12185	max 0.895
DDF at 90 °C	-	IEC 60247	max 0.005
2 — Refining / stability			
Appearance	-	IEC 60296	Clear, free from sediment
Acidity	mg KOH/g	IEC 62021	max 0.01
Interfacial tension	mN/m	EN 14210	min 40 (typ. 48)
Corrosive sulphur	-	DIN 51353	Non-corrosive
Potentially corrosive sulphur	-	IEC 62535	Non-corrosive
Corrosive sulphur	-	ASTM D1275 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 (<2)
2-Furfural and related compounds	mg/kg	IEC 61198	Not detectable
3 — Performance (oxidation stability, 120 °C / 500 h, IEC 61125 C)			
Total acidity	mg KOH/g	IEC 61125 C	max 0.3
Sludge	wt %	IEC 61125 C	max 0.05
DDF at 90 °C	-	IEC 60247	max 0.05
4 — Health, safety and environment (HSE)			
Flash point, PM	°C	ISO 2719	min 135
PCA	wt %	IP 346	max 3
PCB	-	IEC 61619	Not detectable

Typical values shown do not constitute a specification. The information is based on current knowledge and is intended to describe the product for possible applications; it does not release the user from performing preliminary tests.