DOC NO	REV	ISSUED	CLASS
TDS-JETROF-B	02	11/2026	Transformer Oil · Uninhib.

TECHNICAL DATA SHEET

JETROF-B Uninhibited Transformer Insulating Oil

VISCOSITY @ 40°C	POUR POINT	FLASH POINT, COC	BREAKDOWN VOLTAGE
11.12 mm^2/s	−24 °C	146 °C	76 kV

DESCRIPTION

JETROF-B is a virgin, uninhibited mineral insulating oil for oil-filled electrical equipment. It contains no added oxidation inhibitor.

It is refined from Egyptian crude by solvent refining, solvent dewaxing and hydrofinishing.

COMPATIBILITY

JETROF-B is miscible with other uninhibited mineral insulating oils. Before topping up equipment in service, follow IEC 60422 or the equipment manufacturer's guidance.

STORAGE PRECAUTIONS

Insulating oils are very sensitive to minute amounts of moisture, particles and fibres. Keep drums closed, clean and dry, store them indoors and out of contact with atmospheric air, and keep them upright with the bungs tight until use.

Water content and breakdown voltage depend on storage and handling: check them before filling equipment, and dry, degas and filter the oil when needed.

LABORATORY DATA

The typical data in this sheet are the results of the laboratory analysis of a production batch (November 2026), tested by the methods shown.

The specification limits are the limits the product is supplied to.

REFINING

Solvent refining, solvent dewaxing and hydrofinishing. Crude origin: Egypt.

CHARACTERISTICS

JETROF-B offers:

- Breakdown voltage of 76 kV as tested (IEC 60156); specification minimum 50 kV.
- Low acidity: 0.01 mg KOH/g.
- Water content of 30 mg/kg maximum.
- Kinematic viscosity at 40 °C of 12 mm²/s maximum, for heat transfer from the core and windings.
- No added oxidation inhibitor (uninhibited oil).

APPLICATIONS

JETROF-B is used to fill and top up oil-filled power and distribution transformers, oil-filled switchgear and circuit breakers, where the equipment manufacturer's specification allows an uninhibited mineral insulating oil with a pour point of −24 °C.

PROPERTY	UNIT	TEST METHOD	SPECIFICATION LIMITS		TYPICAL DATA
			MIN	MAX	
1 - Function					
Colour	–	ASTM D1500			**L0.5**
Kinematic viscosity at 40 °C	mm^2/s	ASTM D445		**12.00**	**11.12**
Kinematic viscosity at 100 °C	mm^2/s	ASTM D445			**2.77**
Viscosity index	–	ASTM D2270			**88**
Pour point	°C	ASTM D97		**−24**	**−24**
Water content	mg/kg	ASTM D6304		**30**	**27**
Breakdown voltage	kV	IEC 60156	**50**		**76.0**
Density at 15 °C	g/mL	ASTM D4052			**0.8752**
Dielectric dissipation factor (DDF) at 90 °C	–	IEC 60247		**0.005**	**–**
2 - Refining / stability					
Appearance	–	IEC 60296	**Clear, free from sediment and suspended matter**		**–**
Acidity (acid number)	mg KOH/g	ASTM D664		**0.01**	**0.01**
Interfacial tension	mN/m	EN 14210	**40**		**–**
Total sulphur	wt %	ASTM D4294			**0.150**
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**		**–**
Metal passivator additives	mg/kg	IEC 60666	**Not detectable (<2)**		**–**
2-Furfural and related compounds	mg/kg	IEC 61198	**Not detectable**		**–**
3 - Health, safety and environment					
Flash point, Cleveland open cup	°C	ASTM D92			**146**
Polycyclic aromatics (PCA)	wt %	IP 346		**3**	**–**
PCB	–	IEC 61619	**Not detectable**		**–**

Typical data are the results of one production batch and do not constitute a specification. A dash in the Typical data column means the property is covered by the specification limit but was not part of the batch analysis.

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