

DOC NO	REV	ISSUED	CLASS
TDS-JETOL-B	01	09/2026	Transformer Oil • Uninhib.

TECHNICAL DATA SHEET

JETOL-B Uninhibited Transformer Insulating Oil

VISCOSITY @ 40°C	POUR POINT	FLASH POINT, PM	BREAKDOWN VOLTAGE (AFTER TREATMENT)
9.6 mm ² /s	-51 °C	152 °C	>70 kV

DESCRIPTION

JETOL-B Transformer oil is a virgin Uninhibited Mineral insulating oil with highest degree of purity and stability. JETOL-B is manufactured from judiciously selected blend of latest technology feed stocks. JETOL-B is highly suitable for all grades of Power & distribution Transformers, Circuit Breakers, Oil filled switches and X-ray equipment.

QUALITY

JETOL-B conforms to the requirements of IEC 60296 Edition 4.0, IEC 296:1982 Class I, BS 148:1998 Class I & ASTM D 3487 Type I.

COMPATIBILITY

JETOL-B is compatible with any allied uninhibited 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

JETOL-B offers several advantageous characteristics;

- Low Pour point.
- No DBDS
- 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

JETOL-B is highly suitable for all grades of

- Power Transformers, Distribution Transformers
- Circuit Breakers,
- Oil filled switches
- X-ray equipment.

PROPERTY	UNIT	TEST METHOD	SPECIFICATION LIMITS		TYPICAL DATA
			MIN	MAX	
1 - Function					
Viscosity, 40°C	mm ² /s	ISO 3104		12.0	9.6
Viscosity, -30°C	mm ² /s	ISO 3104		1800	1100
Pour point	°C	ISO 3016		-40	-51
Water content	mg/kg	IEC 60814		30	<20
Breakdown voltage					
- Before treatment	kV	IEC 60156	30		40-60
- After treatment	kV		70		>70
Density, 20°C	kg/dm ³	ISO 12185		0.895	0.875
DDF at 90°C		IEC 60247		0.005	<0.001
2 - Refining/stability					
Appearance		IEC 60296	Clear, free from sediment		complies

PROPERTY	UNIT	TEST METHOD	SPECIFICATION LIMITS		TYPICAL DATA
			MIN	MAX	
Acidity	mg KOH/g	IEC 62021		0.01	<0.01
Interfacial tension	mN/m	EN 14210	40		48
Corrosive sulphur		DIN 51353	non-corrosive		non-corrosive
Potentially corrosive sulphur		IEC 62535	non-corrosive		non-corrosive
Corrosive sulphur		ASTM D 1275 B	non-corrosive		non-corrosive
DBDS	mg/kg	IEC 62697-1		not detectable	not detectable
Antioxidant	wt %	IEC 60666		not detectable	not detectable
Metal passivator additives	mg/kg	IEC 60666		not detectable	not detectable
2-Furfural and related compounds content	mg/kg	IEC 61198		0.05	<0.05
Aromatic content	%	IEC 60590			9
3 - Performance					
Oxidation stability at 120°C,164 h		IEC 61125 C			
Total acidity	mg KOH/g			1.2	0.55
Sludge	wt %			0.8	0.18
DDF at 90°C				0.500	0.080
4 - Health, safety and environment (HSE)					
Flash point, PM	°C	ISO 2719	135		152
PCA	wt %	IP 346		3	<3
PCB		IEC 61619	not detectable		not detectable

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