JETOL-B

Uninhibited Transformer Insulating Oil · IEC 60296 · BS 148 Class I · ASTM D3487 Type I

DESCRIPTION

JETOL-B transformer oil is a virgin, uninhibited mineral insulating oil with the highest degree of purity and stability, manufactured from a judiciously selected blend of latest-technology feedstocks. It is highly suitable for all grades of power and distribution transformers, circuit breakers, oil-filled switches and X-ray equipment.

CHARACTERISTICS

- Low pour point
- No DBDS
- 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 / APPROVALS

Conforms to the requirements of IEC 60296 Edition 4.0, IEC 296:1982 Class I, BS 148:1998 Class I and ASTM D3487 Type I.

COMPATIBILITY

JETOL-B is compatible with any allied uninhibited 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 & TYPICAL DATA

PROPERTY	UNIT	METHOD	LIMIT	TYPICAL
1 — Function				
Viscosity at 40 °C	mm²/s	ISO 3104	max 12.0	**9.6**
Viscosity at -30 °C	mm²/s	ISO 3104	max 1800	**1100**
Pour point	°C	ISO 3016	max -40	**-51**
Water content	mg/kg	IEC 60814	max 30	**<20**
Breakdown voltage — before treatment	kV	IEC 60156	min 30	**40 - 60**
Breakdown voltage — after treatment	kV	IEC 60156	min 70	**>70**
Density at 20 °C	kg/dm³	ISO 12185	max 0.895	**0.875**
DDF at 90 °C	-	IEC 60247	max 0.005	**<0.001**
2 — Refining / stability				
Appearance	-	IEC 60296	Clear, free from sediment	**Complies**
Acidity	mg KOH/g	IEC 62021	max 0.01	**<0.01**
Interfacial tension	mN/m	EN 14210	min 40	**48**
Corrosive sulphur	-	DIN 51353	Non-corrosive	**Non-corrosive**
Potentially corrosive sulphur	-	IEC 62535	Non-corrosive	**Non-corrosive**
Corrosive sulphur	-	ASTM D1275 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	mg/kg	IEC 61198	max 0.05	**<0.05**
Aromatic content	%	IEC 60590	-	**9**
3 — Performance (oxidation stability, 120 °C / 164 h, IEC 61125 C)				
Total acidity	mg KOH/g	IEC 61125 C	max 1.2	**0.55**
Sludge	wt %	IEC 61125 C	max 0.8	**0.18**
DDF at 90 °C	-	IEC 60247	max 0.500	**0.080**
4 — Health, safety and environment (HSE)				
Flash point, PM	°C	ISO 2719	min 135	**152**
PCA	wt %	IP 346	max 3	**<3**
PCB	-	IEC 61619	Not detectable	**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.