



# Transformer Oil Uninhibited

## Efficient performance transformer oil

### Product description

Transformer Oil Uninhibited is a highly refined, efficient performance uninhibited transformer oil, providing high dielectric strength and reliable low temperature performance. It is formulated with a mineral base stock and provides good oxidation stability.

Transformer oil fulfils the requirements of an IEC 60296 Edition 4.0 Uninhibited Oil, and passes all of the following corrosion tests: ASTM D1275; IEC 62535 and DIN 51353.

### Customer benefits

- High dielectric strength
- Reliable low temperature performance
- Oxidation stability contributes to long service life
- Passes the 2006 Oil/Copper interactions tests as described in ASTM D 1275B
- Offers neutral behaviour with insulating materials

### Product highlights

- **High dielectric strength**
- **Reliable low temperature performance**
- **Long service life**

#### Selected specification standards include:

IEC	BS
LABORELEC	

### Applications

- Transformer Oil Uninhibited is used as an insulating oil in transformers, switchgear, inductors, condensers, transducers and similar equipment, also at low temperatures in outdoor use
- It insulates current-carrying parts from each other and from ground, carries away heat, prevents glow discharges, extinguishes electric arcs in switchgear, and impregnates insulating materials

### Approvals, performance and recommendations

#### Performance

Transformer Oil Uninhibited meets the requirements of:

- IEC 60296 Edition 4.0 Uninhibited Oil
- BS 148 IIA (1998)
- LABORELEC LBE-specifications according to “Technical specifications of unused mineral insulating oils for transformers, ed.4, 2005”

This oil tested non-corrosive with CIGRE A2.32 referred method.

### Typical test data

Test	Test methods	Results
<b>Shelf Life: 12 months from date of filling indicated on the product label.</b>		
Appearance	IEC 60296	Clear
Colour	ISO 2049	<0.5
Density at 20°C	ISO 3675	0.871 kg/dm <sup>3</sup>
Flash Point, PM	ISO 2719	150°C
Pour Point	ISO 3016	- 45°C
Kinematic Viscosity at 40°C	ISO 3104	10 mm <sup>2</sup> /s
Neutralization Value (Acidity)	IEC 62021	<0.01 mg KOH/g
Water Content	IEC 60814	<20 mg/kg or ppm
Breakdown Voltage		
- Before Treatment	IEC 60156	40-60 kV
- After Treatment	IEC 60296/60156	>70 kV

The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved. This supersedes all previous editions and information contained in them.

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