

ISOVOLTINE BIO



Insulating



Biodegradable insulating oil.

APPLICATIONS

Insulating oil

- **ISOVOLTINE BIO** oil is a biodegradable oil. It has been developed based on high performance synthetic esters.
- **ISOVOLTINE BIO** is an ecological alternative to replace mineral and silicone oils used in transformers, rheostats and circuit breakers.

SPECIFICATIONS

International specifications

- IEC 61099
- IEC 61100 - K3 class
- Biodegradable according to OECD 301B
- NWG (**N**icht **W**asser **G**efarhende - without danger for water)

ADVANTAGES

- High isolating capability.
- Very good oxydation resistance for extended use.
- Biodegradable according to OECD 301B :
 - 60% in 10 days
 - 84% in 28 days
- Very high flash point to improve fire safety compared to mineral oils (K3 according to IEC 61100).
- Low viscosity for effective cooling.
- High renewable raw materials (higher than 50%).
- Meets toxicological criteria of Eco-Label even if no category exists for this application.

TYPICAL CHARACTERISTICS	METHODS	UNITS	ISOVOLTINE BIO
Density at 20 °C	ISO 12185	kg/m ³	983
Viscosity at 40 °C	ISO 3104	mm ² /s	22
Pour point	ISO 3016	°C	- 45
Flash point (P.M)	ISO 2719	°C	260
Fire point	ISO 2592	°C	310
Dielectric strenght	IEC 296	kV	> 70
Dielectric dissipation factor	IEC 247	-	0.02

Above characteristics are mean values given as an information.

TOTAL LUBRIFIANTS
Industrie & Spécialités
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This lubricant used as recommended and for the application for which it has been designed does not present any particular risk.
A material safety data sheet conforming to the regulations in use in the E.C. can be obtained from your local commercial adviser or down loaded from www.quick-fds.com