

Isovoltine Bio

Biodegradable insulating fluid

APPLICATIONS

- **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.

ADVANTAGES

- Fire point double that of mineral insulating fluids
- Outstanding insulating power
- Increased lifetime of the insulating paper enabled by vegetable oils' hygroscopic properties
- Superior oxidation resistance in comparison with fluids of the same category
- Formulation based on high-performance natural esters which contribute to lowering the carbon footprint over the entire equipment lifecycle

SPECIFICATIONS

- IEC 61099
- IEC 61039 - K3 class
- Biodegradable according to OECD 301B
- NWG (Nicht Wasser Gefarhende - without danger for water)

TYPICAL CHARACTERISTICS

Properties	Units	Standards	Isovoltine Bio
Density at 20°C	kg/m ³	ISO 12185	970
Viscosity at 40°C	mm ² /s	ISO 3104	26.4
Pour point	°C	ISO 3016	-57
Flash point (P.M)	°C	ISO 2719	265
Fire point	°C	ISO 2592	312
Breakdown voltage:	kV	IEC 60156	> 70
DDF	-	IEC 60247	0.02



For additional information, contact your local Totalenergies Lubricants representative or visit our web site: <https://lubricants.totalenergies.com>

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 downloaded from <https://sds.totalms.total.com>