

Isovoltine Bio VE

Fire resistant and biodegradable insulating fluid

APPLICATIONS

- 100% renewable bio-based insulating fluid for power and distribution transformers operating in sensitive environments.
- For use in applications requiring an insulating fluid with a very high fire point.
- Environmental-friendly alternative fluid 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 62770
- IEC 61100 – K2 class
- OECD 301B: Readily biodegradable

APPROVALS

- Factory Mutual

TYPICAL CHARACTERISTICS

Properties	Units	Standards	Isovoltine Bio VE
Density at 20°C	kg/m ³	ISO 12185	920
Viscosity at 40°C	mm ² /s	ISO 3104	39
Pour point	°C	ISO 3016	-24
Flash point cleveland (Open Cup)	°C	ISO 2592	> 300
Fire point	°C	ISO 2592	> 350
Acidity	mg KOH/g	IEC 62021-2	< 0.06
Water content	ppm	IEC 60814	< 200
Breakdown voltage:	kV	IEC 60156	> 7 0
DDF at 90°C	-	IEC 60247	< 0.05
Biodegradability – 28 days	-	OECD 301B	83 %

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>