

Isovoltine P1

Trace inhibited mineral insulating fluid

APPLICATIONS

- **Isovoltine P1** oil is a trace inhibited mineral oil for transformers, switchgears, circuit breakers, welding set, and all high voltage electrical equipment.

ADVANTAGES

- Excellent resistivity, power factor and dielectric strength.
- Low viscosity for effective cooling.
- Long life due to excellent oxidation resistance.
- Very low pour point.
- No impurities such as dissolved gas, water, or suspended solids.
- Does not contain DBDS.
- Does not contain PCB.

SPECIFICATIONS

- IEC 60296: 2012 – Trace Inhibited
- BS 148 Class IA
- KS C 2301
- JIS C 2320 Class 1 Type IA, IIA
- Suitable for equipment requiring ASTM D 3487 Type I fluid

APPROVALS



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://sdstotalms.total.com>

TYPICAL CHARACTERISTICS

Properties	Units	Standards	Isovoltine P1
Density at 20°C	gc/m ³	ISO 3675	0.825
Viscosity at 40°C	mm ² /s	ISO 3104	7.70
Flash point (Pensky Martens, Closed Cup)	°C	ISO 2719	145
Pour point	°C	ISO 3016	-45
Acidity	mg KOH/g	IEC 62021-1	< 0.01
Water content	ppm	IEC 60814	17
Antioxidant additives	%wt	IEC 60666	< 0.08
Corrosive sulfur	-	DIN 51353	Non corrosive
Breakdown voltage:	kV	IEC 60156	> 30
DDF at 90°C	%	IEC 60247	< 0.001
Oxydation stability, 332 h	%wt	IEC 611256C	< 0.01
- Sludge	mg KOH/g		0.12
- Total Acidity			



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