



# ELECTRA 3

INDUSTRY

## Description

Light oil especially recommended for use as an insulating fluid in electrical equipment. Manufactured with very refined and processed bases which ensure the absence of solid matter, polar compounds and precipitable products at low temperatures. Moreover, the absence of dampness is ensured via a strict manufacturing and canning procedure.

## Recommended uses

Transformers, circuit breakers, rheostats, etc. In general, it can be used in all kinds of electrical apparatus that need an oil bath that acts as a dielectric or cooling agent.

## Properties

- High dielectric power.
- Great heat evacuating capacity.
- Excellent oxidation stability.
- Insignificant dielectric loss (Tg).
- Absence of dampness and solids in suspension.
- Minimal formation of sludge during use.
- Low aromatic content.
- Totally free of PCB's and PCT's.

## Quality level

- UNE EN 60296:2004
- BS-148 Class II (non inhibited)
- CEI 60296
- ASTM-D-3487 Type I

## Technical characteristics

	UNIT	METHOD	VALUE
Kinematic viscosity at 40°C, maximum	cSt	ASTM D 445	12
Kinematic viscosity at -30°C, maximum	cSt	ASTM D 445	1800
Density at 20°C	g/ml	ASTM D 4052	0.842
Flash point, minimum	°C	ASTM D 92	160
Freezing point, maximum	°C	ASTM D 97	-40
Dielectric Rigidity, without treating minimum	kV	UNE EN 60156	30
Dielectric loss factor at 90°C, maximum	--	UNE EN 60247	0.005
Interfacial tension, minimum	mN/ml	ASTM D 971	40
Oxidation, sludge	% weight	IEC 61125C	0.15
Oxidation, dielectric loss factor at 90°C	--	IEC 61125C	0.01
Oxidation, total acidity	mg KOH/g	IEC 61125C	0.2

## Available in

Bulk and 180 kg drum.

## ■ Hazard identification

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This product is not classified as toxic or hazardous under current legislation.

## ■ Handling

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Minimum precautions should be taken to avoid prolonged contact with the skin. The use of gloves, visors or glasses is recommended to avoid splashes.

## ■ Health and Safety Hazards

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**Inhalation:** Given that it is not a particularly volatile product, the risk of inhalation is minimal.

**Ingestion:** Do not induce vomiting. Provide water. Seek medical advice.

**Contact with the skin:** Wash with plenty of water and soap.

**Eyes:** Wash thoroughly with water.

**General measures:** Seek medical advice.

## ■ Fire-fighting measures

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No special measures required.

**Fire-extinguishing measures:** Foams, dry chemicals, CO<sub>2</sub>, water spray. Do not apply the jet of water directly as this could cause the product to disperse.

## ■ Environmental precautions

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Danger of physical pollution if spilt (water, coastlines, soil, etc.) due to its floatability and oily consistency that may harm flora and fauna on contact. Avoid material getting into water outlets.

**Decontamination and cleaning:** Treat like an accidental oil spill. Prevent dispersion using mechanical barriers and remove by physical or chemical means.

A safety information file is available on request.

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Unless otherwise indicated, the figures cited in technical characteristics should be considered typical.