



Shanghai PingYiao Trading CO., Ltd.

## ELECTRA 3

### Description

Repsol Electra 3 is a specially refined uninhibited light mineral oil for electrical applications. It has been designed to offer excellent dielectric properties. Also, it is highly resistant to oxidative degradation (i.e. formation of acids and sludge) and being of low viscosity circulates easily to provide efficient heat transfer. The product is made from highly refined basestocks, without any solid or paraffin-based precipitable materials at low temperatures. Likewise the absence of humidity is ensured by means of a rigorous manufacturing and packaging process.

### Recommended uses

Electra 3 is primarily recommended for use as insulating fluid in transformers, disjunctors, rheostats, etc. In general, it can be used in all types of electrical equipment that needs a fluid with the following properties:

- Coolant, to dissipate the heat generated when the equipment is on load.
- Dielectric, to insulate windings and conductors.
- Quenching agent to avoid sparks and arcs between opening contacts.

### Characteristics

High dielectric insulating power.

Very high stability against oxidation.

Slightly dielectric loss (Tg).

Absence of humidity and solids in suspension.

Minimal formation of sludges during service.

Low aromatic content.

Completely exempt from PCB's and PCT's.

### Quality level

UNE EN 60296:2003

BS-148 Class II (not inhibited)

Shanghai PingYiao Trading CO., Ltd.

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IEC 60296:2004. Type U (unhhibited)      ASTM-D-3487 Type I

### Technical propertie

	UNITS	METHOD	VALUE
Kinematic viscosity at 40°C, max.	cSt	ASTM D 445	12
Kinematic viscosity at -30°C, max.	cSt	ASTM D 445	1800
Density at 20°C	g/ml	ASTM D 4052	0,842
Flash point, min.	°C	ASTM D 92	160
Pour point, max.	°C	ASTM D 97	-40
Dielectric rigidity, untreated, min.	kV	UNE EN 60156	30
Dielectric losses factor at 90°C, max.	-	UNE EN 60247	0,005
Oxidation resistance, % sludges	% peso	IEC 61125C	0,15
Oxidation resistance, DDF @ 90°C	-	IEC 61125C	0,01
Oxidation resistance, total acidity	mg KOH/g	IEC 61125C	0,2

### Available in

Bulk and drums of 180 kgs.

### Hazard identification

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

### Handling

Certain minimum precautions to avoid prolonged contact with the skin should be taken when handling. The use of gloves, visors or masks is recommended in order to avoid splashes.

### Health and safety hazards

**Inhalation:** Minimum risk of inhalation as it is a non-volatile product.

**Ingestion:** Does not provoke vomiting. Drink water. Seek medical assistance.

**Contact with Skin:** Wash with abundant water and soap.

**Eyes:** Wash with abundant water.

**General measures:** Seek medical assistance.

### Fire fighting measures

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No special measures are required.

**Fire control:** Foams, dry chemicals, CO<sub>2</sub>, water spray. Do not apply water jet directly as this may cause the product to spread.

### **Environmental precautions**

Danger of physical contamination in the case of spillage (water flows, coastal areas, the ground, etc.) due to its floating capacity and oily consistency which may cause damage to fauna and flora with which it comes into contact. Avoid its penetration into water containers or outlets.

**Decontamination and cleaning:** Treat as an accidental oil spillage. Avoid spreading by using mechanical barriers and eliminate using both physical and chemical means.

Unless otherwise specified, the values cited in technical characteristics should be considered as typical.

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