

## LUBRICANTS FOR INDUSTRIAL USE

# CEPSA ELEKOIL U-HV

### DESCRIPTION

Non-inhibited dielectric insulating oil, manufactured with highly refined base oils.

#### PRODUCT APPLICATIONS

- Especially recommended for use as an insulating fluid and a refrigerant of the winding of distribution transformers, with nominal voltage less than 72 kV, in an oil bath.

#### PRODUCT PERFORMANCE

- High dielectric rigidity complying with the highest standards.
- Excellent chemical stability and resistance to oxidation, reducing the presence of deposits that can attack the insulation of the windings or electrical elements where used.
- Low dielectric losses due to the low value of the delta angle tangent.
- Its low viscosity allows for a high capacity to dissipate heat, ensuring adequate refrigeration and circulation even in low temperatures.
- Lack of moisture thanks to the process of treating the product before packaging.
- Free from polychlorinated biphenyls (PCB).

### SPECIFICATIONS

- IEC 60296 Ed. 4 (2012), uninhibited U-type

### TYPICAL CHARACTERISTICS

CHARACTERISTICS	UNITS	METHOD	CEPSA ELEKOIL U-LV
Appearance		IEC 60269	Transparent and free from sediments
Density, 20°C	Kg/l	ISO 12185	Max. 0.895
Flash point	°C	ISO 2719	Min. 135
Pour point	°C	ISO 3016	Max. -30
Kinematic viscosity at 40 °C	mm <sup>2</sup> /s	ISO 3104	Max. 12
Kinematic viscosity at -20°C	mm <sup>2</sup> /s	ISO 3104	Max. 1800
Acidity, mg KOH/g	mg KOH/g	IEC 62021	Max. 0.01
Breakdown voltage:		IEC 60156	
Untreated oil	KV		Min. 30
Treated oil	KV		Min. 70
Dialectric loss factor (DDF) at 90°C		IEC 60247	Max. 0.005
Resistance to oxidation (164 h, 120°C):		IEC 61125 C	
Total acidity	MG KOH/G		Max. 1.2
Sludge	% P/P		Max. 0.8
DDF (TAN Delta) at 90°C			Max. 0.500
Corrosive sulphur		DIN 51353	Non-corrosive
Antioxidant, phenols		IEC 60666	Non-detectable
PCA	% p/p	IP 346	Max. 3
PCB	mg/kg	IEC 61619	Non-detectable

### HEALTH & SAFETY AND ENVIRONMENT

Health, safety and environmental information is provided for this product in the Materials Safety Data Sheet. This gives details of potential hazards, precautions and First Aid measures together with environmental effects and disposal of used products.