

# EKO INSULATING OIL

## Transformer oil with antioxidant additives (inhibited)

### Description

EKO INSULATING OIL is a high quality naphthenic transformer oil reinforced with antioxidant additives (inhibited), suitable for high voltage transformers.

EKO INSULATING OIL presents high oxidation stability, very good dielectric properties and a very satisfactory heat transfer. The presence of the antioxidant additives increases the product's service life in applications where there is significant air exposure.

### Compatibility

EKO INSULATING OIL is compatible with all other insulating oils meeting IEC 60296, ed. 5, 2020, Type A, TVAI (inhibited high grade oils).

### Specifications

IEC 60296, ed. 5, 2020, Type A, TVAI (inhibited high grade oils).

## Typical Characteristics

Properties	Methods	Units	EKO INSULATING OIL
Density, 20°C	ISO 12185	g/ml	0.877
Viscosity, 40°C	ISO 3104	cSt	9.5
Viscosity, -30°C	ISO 3104	cSt	1021
Flash point, PMCC	ISO 2719	°C	142
Pour Point	ASTM D5950	°C	-65
Acidity	IEC 62021-1	mg KOH/g	<0.01
Corrosive Sulfur	DIN 51353		Non corrosive
Corrosive Sulfur	ASTM D1275		Non corrosive
Corrosive Sulfur	IEC 62535		Non corrosive
Sulfur (S)	ISO 14596	% wt	0.001
Antioxidants	IEC 60666	%	0.37
Water Content	IEC 60814	mg/kg	5
Dielectric Dissipation Factor (DDF) at 90°C	IEC 60247		0.001
Interfacial Tension	ASTM D971	mN/m	49
Breakdown Voltage, before treatment, 2.5mm	IEC 60156	kV	45
Breakdown Voltage, after treatment, 2.5mm	IEC 60156	kV	72
Oxidation Stability at 120°C, 500 hours			
Total Acidity	IEC 61125, C	mg KOH/g	0.01
Sludge	IEC 61125, C	%	0.01
DDF at 90°C	IEC 61125, C		0.013
PCA content	IP 346	%.	<3
PCB content	IEC 61619	mg/kg	Not detected (<2)

## Health and safety

Protect the environment while disposing of used product. Used lubricants should be collected at specific points to ensure they do not pollute the environment. Do not mix with solvents, brake fluids, antifreeze and water, to allow for proper handling.

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