PRODUCT DATA SHEET

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.

SPECIFICATIONS

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

TYPICAL CHARACTERISTICS

Properties	Units	Methods	EKO INSULATING OIL
Density, 20°C	g/ml	ISO 12185	0.877
Viscosity, 40°C	cSt	ISO 3104	9.5
Viscosity, -30°C	cSt	ISO 3104	1021
Flash point, PMCC	°C	ISO 2719	142
Pour Point	°C	ASTM D5950	-65
Acidity	mg KOH/g	IEC 62021-1	<0.01
Corrosive Sulfur		DIN 51353	Noncorrosive
Corrosive Sulfur		ASTM D1275	Noncorrosive
Corrosive Sulfur		IEC 62535	Noncorrosive
Sulfur (S)	% wt	ISO 14596	0.001
Antioxidants	%	IEC 60666	0.37
Water Content	mg/kg	IEC 60814	5
Dielectric Dissipation Factor (DDF) at 90°C		IEC 60247	0.001
Interfacial Tension	mN/m	ASTM D971	49

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TYPICAL CHARACTERISTICS

Properties	Units	Methods	EKO INSULATING OIL
Breakdown Voltage, before treatment, 2.5mm	kV	IEC 60156	45
Breakdown Voltage, after treatment, 2.5mm	kV	IEC 60156	72
Oxidation Stability at 120°C, 500 hours			
Total Acidity	mg KOH/g	IEC 61125, C	0.01
Sludge	%	IEC 61125, C	0.01
DDF at 90°C		IEC 61125, C	0.013
PCA content	%	IP 346	<3
PCB content	mg/kg	IEC 61619	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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