



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 oil switches and 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. 4, 2012, special applications.

TYPICAL CHARACTERISTICS

Properties	Units	Methods	EKO INSULATING OIL
Density at 20°C	g/ml	ISO 12185	0.875
Viscosity at 40°C	cSt	ISO 3104	9.7
Viscosity at -30°C	cSt	ISO 3104	1092
Flash point (PMCC)	°C	ISO 2719	144
Pour Point	°C	ASTM D5950	-55
Acidity	mg KOH/g	IEC 62021-1	<0.01
Corrosive sulfur		DIN 51353	Non corrosive
Corrosive sulfur		ASTM D1275	Non corrosive
Corrosive sulfur		IEC 62535	Non corrosive
Sulfur (S)	% wt	ISO 14596	0.008
Antioxidants	%	IEC 60666	0.36
Water content	mg/kg	IEC 60814	5
Dielectric Dissipation Factor (DDF) at 90°C		IEC 60247	0.001
Interfacial tension	mN/m	ASTM D971	48



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TYPICAL CHARACTERISTICS

Properties	Units	Methods	EKO INSULATING OIL
Breakdown voltage, before treatment, 2.5mm	kV	IEC 60156	57
Breakdown voltage, after treatment, 2.5mm	kV	IEC 60156	75
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

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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This data sheet provides basic information on the product as at the date of drafting. For further information regarding applications, please contact EKO ABEE Technical Support, tel. +30 210 5509 511 and +30 210 7725 418. Advice on safe handling is provided in the Safety Data Sheet.