



PRODUCT DATA SHEET

EKO INSULATING OIL UNH

Transformer oil

DESCRIPTION

EKO INSULATING OIL UNH is a high quality naphthenic electrical insulating oil without antioxidant additives (uninhibited), suitable for high voltage transformers.

EKO INSULATING OIL UNH presents high oxidation stability, very good dielectric properties and a very satisfactory heat transfer.

SPECIFICATIONS

IEC 60296, ed. 5, 2020, Type B, TVBU (uninhibited standard grade oils).

TYPICAL CHARACTERISTICS

Properties	Units	Methods	EKO INSULATING OIL UNH
Density, 20°C	g/ml	ISO 12185	0.879
Viscosity, 40°C	cSt	ISO 3104	9.8
Viscosity, -30°C	cSt	ISO 3104	1057
Flash point, PMCC	°C	ISO 2719	143
Pour Point	°C	ASTM D5950	-63
Acidity	mg KOH/gr	IEC 62021-1	<0.01
Corrosive Sulfur		DIN 51353	Noncorrosive
Corrosive Sulfur		ASTM D1275	Noncorrosive
Corrosive Sulfur		IEC62535	Noncorrosive
Water Content	mg/kg	IEC 60814	7
Dielectric Dissipation Factor (DDF) at 90°C		IEC 60247	0.001
Interfacial Tension	mN/m	ASTM D971	47
Breakdown Voltage, before treatment, 2.5mm	kV	IEC 60156	44
Breakdown Voltage, after treatment, 2.5mm	kV	IEC 60156	72



PRODUCT DATA SHEET

TYPICAL CHARACTERISTICS

Properties	Units	Methods	EKO INSULATING OIL UNH
Oxidation stability at 120°C, 164 hours			
Total Acidity	mg KOH/gr	IEC 61125, C	0.7
Sludge	%	IEC 61125, C	0.2
DDF at 90°C		IEC 61125, C	0.037
PCA content	%	IP 346	<3
PCB content	mg/kg	IEC 61619	Not detected (<2)
Antioxidants	%	IEC 60666	Not detected (<0.01%)

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.

Issue 5, 31 October 2022

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.
Advice on safe handling is provided in the Safety Data Sheet.