MAKER ELECTRA 3X PLUS

Description

Inhibited dielectric oil for special applications. Formulated with isoparaffinic base stock highly hydrogenated. Recommended for use in electrical equipment when high oxidation resistance and very low sulphur content is required.

Caution

Any type of contamination (humidity, particles, etc.) can negatively affect the properties of the product. Special attention must be paid to avoid polar contaminants.

Properties

- Excellent cooling properties
- High oxidation stability and high dielectric breakdown voltage
- High resistance to sludge and deposit formation
- Very low sulphur content

Quality levels, approvals and recommendations

· ASTM D3487 type II

• IEC 60296 type A <<HIGH GRADE>>

Technical specifications

	UNIT	METHOD	VALUE
PHYSICAL PROPERTIES:			
Appearance	-	Visual	B & T
Density at 20 °C	g/mL	ISO 12185	0.825
Kinematic viscosity at 40 °C	cSt	ASTM D445	8.74
Cinematic Viscosity at -30 °C	cSt	ASTM D445	457.98
reezing point	°C	ISO 3016	- 65
CHEMICAL PROPERTIES:			
cidity index	mg KOH/g	IEC 62021	<0.01
prrosive sulphur		IEC 62535	Non-corrosive
otal sulphur content	%	ASTM D2622	0.0001
ater content	mg/kg	IEC 60814	9.2
ntioxidant additives	% in weight	IEC 60666	0.3
BDS	mg/kg	IEC 62697-1	n. d. (< 5)
urfural content	mg/kg	IEC 61198	<0.05
ray gassing (Air, Cu): Hydrogen	μL/L	ASTM D7150	3
tray gassing (Air, Cu): Methane	μL/L	ASTM D7150	2

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	UNIT	METHOD	VALUE
tray gassing (Air, Cu): Ethane	μL/L	ASTM D7150	3
xidative stability, 500 h:			
Total sludge	% in weight	IEC 61125	<0.01
Total acidity	mg KOH/g	IEC 61125	0.10
Soluble acidity	mg KOH/g	IEC 61125	0.08
Dielectric dissipation factor at 90 °C		IEC 61125	0.0005
IELECTRICAL PROPERTIES:			
ielectric Breakdown Voltage (Untreated)	kV	IEC 60156	65
ielectric Breakdown Voltage (Treated)	kV	IEC 60156	>70
ielectric loss factor at 90 °C		UNE EN 60247	0.00012
terfacial tension	mN/m	UNE 21320	54
AFETY AND ENVIROMENT:			
lash point, closed cup	°C	ASTM D93	175
CA content	% in weight	IP 346	Undetectable
CB content	% in weight	IEC 61619	Undetectable

The above mentioned characteristics are typical values and should not be considered product specifications.