

BIO ELECTRA SYNTH

INDUSTRY

Lubricants



Description

Dielectric transformer oil based on synthetic esters, manufactured using raw materials specially selected to obtain a very high performance fluid. It has excellent oxidative stability and a very low pour point, so it is well suited to cold climates.

The high flash point of the oil allows its use in areas with security restrictions regarding the flammability of the oil.

Properties

- High oxidative stability.
- Highly biodegradable.
- Wide range of working temperatures.
- Exceptional performance at very low temperatures.
- Fire-resistant: fire point above 300 °C.

Quality levels

- According to IEC 61099 standard for synthetic organic esters.
- Classified as a K3 liquids according to IEC 61100.

Technical specifications

Physical properties		UNIT	METHOD	GUARANTEED VALUE	TYPICAL VALUE
Colour		-	ISO 2211	Hazen: 200 max.	30
Appearance		-	Visual	Clean and free of water and material	
Density at 20 °C		g/ml	ISO 12185	< 1	0.969
Kinematic viscosity:					
	at 40 °C	cSt	ISO 3104	< 35	27.4
	at -20 °C	cSt	ISO 3104	< 3000	1196
Flash point		°C	ISO 2719	> 250	255
Ignition point		°C	ISO 2592	> 300	308
Pour point		°C	ISO 3016	< -45	-50

A safety data sheet is available on request.

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Technical data sheet for Lubricants. Revision 1. July 2016.

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Chemical properties	UNIT	METHOD	GUARANTEED VALUE	TYPICAL VALUE
Water content	mg/kg	IEC 60814	< 200	22
Acidity (neutralisation index)	mgKOH/g	ISO 6618	< 0.03	0.01
Oxidation stability	IEC 61125 C			
Soluble acidity	mgKOH/g	IEC 61125 C		0.04
Volatile acidity	mgKOH/g	IEC 61125 C		0.01
Total acidity	mgKOH/g	IEC 61125 C	< 0.3	0.05
Total sludge	% (m/m)	IEC 61125 C	0.01 max.	0.01

Dielectrical properties	UNIT	METHOD	GUARANTEED VALUE	TYPICAL VALUE
Dielectric breakdown voltage	kV	IEC 60156	> 45	77
Dielectric dissipation factor. Tangent at 90 °C and 50 Hz		IEC 60247	< 0.03	0.005
Resistivity at 90 °C	GΩ m	IEC 60247	> 2	7.4

Environmental properties	UNIT	METHOD	GUARANTEED VALUE	TYPICAL VALUE
Biodegradability over 28 days	%	OECD 301B	> 60	72
		OECD 201	> 100	> 1000
Ecotoxicity in aquatic environment	mg/l	OECD 202	> 100	> 1000
		OECD 203	> 100	> 1000

Existe una ficha de datos de seguridad disponible bajo petición.

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Ficha técnica Lubricantes. Revisión 1. Abril 2016.