



PRODUCT DATA SHEET

ELEKTRON X

***Inhibited insulating oil for industrial transformers and switch-gears with excellent oxidation stability, high flash point, very good low temperature and dielectric properties.
Meeting IEC 60296 ed. 4 (2012)***

PROPERTY	TEST METHOD	UNIT	LIMITS		
			MIN	TYP	MAX
VISCOSITY AT 40 °C	ISO 3104	mm ² /s			12
VISCOSITY AT -30 °C	ISO 3104	mm ² /s		700	1800
POUR POINT	ISO 3016	° C			- 40
WATER CONTENT Ex work, bulk product Ex work, drummed product	IEC 60814	mg/kg			30 40
BREAKDOWN VOLTAGE Ex Works After treatment (customer premises)	IEC 60156	kV	30 70	55	
DENSITY AT 20° C	ISO 3675	g/ml			0.895
DDF AT 90 °C	IEC 60247	Unit		0.001	0.005
APPEAREANCE	-	-	Clear, free from sediment and suspended matter		
ACIDITY	IEC 62021-1	mg KOH/g			0.01
CORROSIVE SULPHUR	DIN 51353	-	Not corrosive		
POTENTIALLY CORROSIVE SULPHUR	IEC 62535	-	Not corrosive		
DBDS	IEC 62697-1	mg / kg	Not detectable (< 5)		
INHIBITORS OF IEC 60666	IEC 60666	%w	0.08		0.40
METAL PASSIVATOR	IEC 60666	mg /kg	Not detectable (< 5)		
FURFURAL CONTENT	IEC 61198	mg /kg	Not detectable (< 0.05)		
OXIDATION STABILITY Total acidity Sludge	IEC 61125:1992 (C) (500 hrs)	mg KOH/g %w		0.15 0.05	1.2 0.8
DDF at 90° C	IEC 61125 Am. 1 (2004) + IEC 60247	Unit			0.5
FLASH POINT	ISO 2719	° C	135	170	
PCA	IP 346	%w			3
PCB	IEC 61619	mg / kg	Not detectable (< 2)		

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