

StaSo Transformer Oil I

Applications:

StaSo Transformer Oil I is an inhibited electrical insulation oil for use in oil-filled transformers and electrical equipment such as power and distribution transformers, switchgear, rectifiers or power circuit breakers.

Characteristics / Qualifications:

Excellent oxidation stability, high dielectric breakdown voltage, low dissipation factor, excellent interfacial tension, meets the specific, physical parameter of IEC 60296:2012 (VDE 0370-1). Chemical, physical and electrical tests confirm the demanded values according to Appendix-1 and Appendix-2 of the "TEIAS New Insulation Oil Purchase Specification" (dated 2011).

Typical Characteristics:

Unit		Test method	Guaranteed data		Typical data
		IEC	Min	Max	
1.Function					
Viscosity, 40°C	mm²/s	ISO 3104		12,0	9,5
Viscosity, -30°C	mm²/s	ISO 3104		1800	900
Pour point	°C	ISO 3016		-40	-45
Water content	mg/kg	IEC 60814		30	<10
Breakdown voltage					
-Before treatment	kV	IEC 60156	30		40-70
-After treatment	kV		70		>70
Density, 20°C	kg/m³	ISO 12185		895	875
Dielectric dissipation factor (DDF) at 90°C		IEC 60247		0,005	0,002
2. Refining / stability					
Appearance		IEC 60296	Clear, free from sediment		complies
Acidity	mg KOH/g	IEC 62021		0,01	<0,01
Interfacial tension	mN/m	ISO 6295	40		45
Corrosive sulphur		DIN 51353	non corrosive		non corrosive
Corrosive sulphur		ASTM D 1275 B	non corrosive		non corrosive
Corrosive sulphur		IEC 62535	non corrosive		non corrosive
Sulphur content	%	ISO 14596			0,1
DBDS		IEC 62697-1	non corrosive		non corrosive
Inhibitors	Wt %	IEC 60666	0,08	0,40	0,38
Metal passivator additives	mg/kg	IEC 60666	not detectable		not detectable
2-Furfural content	mg/kg	IEC 61198		0,05	<0,05
Aromatic content	%	IEC 60590			10

Provided data are typical of current production, variations in given characteristics may occur, final determination of suitability of the product for the application contemplated by the user is solely their responsibility, for further information contact +49(0)4661-93495-0, info@transformeroil.de or www.transformeroil.de

Technical Data Sheet

	Unit	Test method	Guaranteed data	Typical data
3. Performance				
At 120°C, 500 h		IEC 61125 C		
Total acidity	mg KOH/g	1.9.4. of IEC 61125	1,2	0,04
Sludge	Wt %	1.9.1. of IEC 61125	0,8	<0,02
DDF/90°C		1.9.6. of IEC 61125	0,500	0,030
4. Health, safety and environment (HSE)				
Flash point, PM	°C	ISO 2719	135	145
PCA content	Wt %	IP 346	3	<3
PCB content	Wt %	IEC 61619	not detectable	not detectable

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