



StaSo Transformer Oil U

Applications:

StaSo Transformer Oil U is an uninhibited 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 60296:2003 and BS 60296:2004, DIN EN 60296:2004; VDE 0370-1.

Typical Characteristics:

	Unit	Test method IEC	Guaranteed data		Typical data
			Min	Max	
1. Properties					
Appearance		IEC 60296	Clear, free from sediment		complies
Density, 20 °C	kg/m ³	ISO 12185		895	875
Viscosity, 40 °C	mm ² /s	ISO 3104		12,0	9,5
Viscosity, -30 °C	mm ² /s	ISO 3104		1800	900
Pour point	°C	ISO 3016		-40	-45
2. Raffination / Stability					
Acidity	mg KOH/g	IEC 62021		0,01	<0,01
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		0,15	0,1
Aromatic content	%	IEC 60590			10
Antioxidant		IEC 60666	not detectable		not detectable
Water content	mg/kg	IEC 60814		30	<10
2-Furfural content	mg/kg	IEC 61198		0,1	<0,1
3. Electrical properties					
Dielectric dissipation factor (DDF) at 90 °C		IEC 60247		0,005	0,002
Interfacial tension mN/m		ISO 6295	40		45
Breakdown voltage					
-Before treatment	kV	IEC 60156	30		40-70
-After treatment	kV		70		>70

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



4. Oxidation stability

At 120°C, 164 h		IEC 61125 C		
Total acidity	mg KOH/g		1,2	0,2
Sludge	Wt %		0,8	0,09
DDF/90°C			0,050	0,030

5. Health, safety and environment

Flash point, PM	°C	ISO 2719	135	145
DMSO-compoundst	Wt %	IP 346	3	<3
PCB		IEC 61619	not detectable	not detectable

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