

Goldenstone® TRAFO-A

Technical Data Sheet (TDS)

Power generation oil

Description and Application

Goldenstone® Trafo A is inhibited transformer oil formulated from highly refined naphthenic type mineral oil additized with phenolic type antioxidant. It is designated for use in high voltage electrical equipment such as transformers, circuit breakers (switches) etc., demanding a lubricant as insulating and heat-transfer media.

Benefits

- Very good heat transfer characteristics
- Maximum resistance to degradation
- Very good low temperature properties
- High dielectric strength
- Very good oxidation stability

Specifications

IEC	60296 Ed.4.0, 2012 Class I
VDE	0370 Part 1
Siemens	TUN 901293
ASTM D 3487	Type II (excl. gassing tend.)
EN 61039	ISO-L-NTIO-2960131

Typical Characteristics

Parameter	Test Method	Typical Value
Appearance		Clear and bright, without mechanical impurities
Kinematic viscosity at, mm ² / s	EN ISO 3104	
- 40°C		9.6
- minus 30°C		1050
Flash point, PMCC, °C	ISO 2719	148
Pour point, °C	ISO 3016	below -40
Density at 20°C, g/cm ³	EN ISO 3675	0.877
Acidity, mg KOH/g	IEC 62021-1	0.01
Sulphur content, %	ISO 14596	0.01
Corrosive sulphur	DIN 51353	non corrosive
Corrosive sulphur	ASTM D 1275, B	non corrosive
Corrosive sulphur	IEC 62535	non corrosive
Aromatic hydrocarbons(C _A) content, %	ASTM D 2140	5.2
DBDS	IEC 62697-1	not detected
Other additives		no undeclared additives
Water content, mg/kg	EN 60814	
- in bulk (delivered)		25
- in drums (delivered)		35
Oxidation stability	IEC EN 61125 Method C	
- TAN, mg KOH/g		0.5
- Sludge, %		0.3
- tgδ at 90°C, 50 Hz		0.11
Interfacial tension, mN/m, at 25°C	ASTM D 971	47
2-6-dibutyl para cresol content, %	IEC 60666	0.38
Breakdown voltage	EN 60156	
- as delivered, kV		45

Parameter	Test Method	Typical Value
- after treatment, kV		72
DDF (tgδ) at 90°C, 50 Hz	EN 60247	0.001
PCBs content	IEC 61619	not detected
PCA, %	BS 2000 Part 346	<3.0
2-furfural content, mg/kg	IEC 61198	<0.05

Important note: Typical data values do not constitute a specification but are an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved.

Health, Safety and Handling

Based on current available information, this product is not expected to produce adverse effects on health when used for the intended application.

For more information about product MSDS, terms and conditions for storage and shelf life please visit:

<http://www.goldenstoneoils.com>

Packages

210L, Bulk

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