



# S-OIL TRANSFORMER OIL T/I

**HIGHLY REFINED HYDROTREATED ELECTRICAL INSULATING OIL (Trace-inhibited / Inhibited )**

## Product Description

S-OIL TRANSFORMER OIL is designed based on highly refined, hydro-treated paraffinic base stock with excellent response to anti-oxidant with high degree of purity and stability. It is suitable for use in any kind of electrical applications including power and distribution transformers, converters, rectifier and switchgears.

## Applications

- Power transformers, distribution transformers, converters, rectifier, circuit breakers and switchgear

## Features and potential benefits

- Excellent oxidation stability with selected anti-oxidant provides extended oil life and stable operation
- Proved anti-corrosion performance with very low Sulfur contents
- Good low temperature fluidity provides continuous operation regardless of any weather condition
- Effective cooling and heat transfer performance and very good dielectric properties
- No impurities such as water, dissolved gas, DBDS, suspended solid and PCB

## Performance level

- IEC 60296:2012 : Table 2 transformer oil (T), (I)
- KS C 2301 Class 1

## Typical Properties

Properties	Method	Units	S-OIL TRANSFORMER OIL T	S-OIL TRANSFORMER OIL I
Appearance			Clear	Clear
Density @ 15°C	ISO 3675 or ISO 12185	g/cm <sup>3</sup>	0.8285	0.8225
Viscosity at -30°C	ISO 3104	cSt	284	269
Viscosity at 40°C	ISO 3104	cSt	7.492	7.483
Viscosity at 100°C	ISO 3104	cSt	2.222	2.218
Pour Point	ISO 3016	°C	-55	-55
Flash Point	ISO 2719	°C	159	151
Acidity	IEC 62021-1 or 62021-2	mg KOH/g	< 0.01	< 0.01
Oxidation Stability	IEC 61125:1992 (C)			
- Total Acidity		mg KOH/g	0.1	< 0.01
- Sludge		wt%	< 0.01	< 0.01
- DDF @ 90°C			0.0066	0.0057
Inhibitors of IEC 60666	IEC 60666	wt%	0.05	0.3
Water Content	IEC 60814	mg/kg	18	17
Breakdown Voltage (untreated/treated)	IEC 60156	kV	72 / 80	81 / 81
Dissipation Factor at 90°C	IEC 60247 or IEC 61620		0.0145	0.0003
Corrosive Sulphur	DIN 51353		Non Corrosive	Non Corrosive
Potentially Corrosive Sulphur	IEC 62535		Non Corrosive	Non Corrosive
PCBs	IEC 61619	mg/kg	Undetectable	Undetectable
DBDS	IEC 62697-1	mg/kg	Undetectable	Undetectable
Metal Passivator additives	IEC 60666	mg/kg	Undetectable	Undetectable
Furfural and related compounds	IEC 61198	mg/kg	Undetectable	Undetectable

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This lubricant used as recommended and for the application for which it has been designed does not present any particular risk. A material safety data sheet is obtainable via your commercial adviser.