

# TRANSFORMER OIL – NAPHTHENIC INHIBITED OIL NI-60



## Description

**BENZOL®** Transformer Oils are manufactured from carefully selected New Generation Right Base Oil with emphasis on product purity at every stage of refining. Base oils offer a high degree of compositional consistency and have an excellent response to antioxidants. They protect transformers from failure by reducing the risk of corrosive Sulphur developing from the insulating oil.



## Applications

**BENZOL®** Transformer Oils are suitable for all types of power, Oil-immersed switchgear, Oil-filled capacitors, Electrical reclosures and distribution transformers. It will dissipate heat, insulate windings and quench the spark between the opening contacts when tap changing.

## Specifications and Approvals

IEC 296 – Class I & II, IEC 60296, ASTM D3487 Type I & II, BS 148 Class I

## Performance Benefits

- Good transformer component cooling.
- Good low temperature fluidity.
- Better insulation properties.
- Reduces contact erosion.
- Long service life.
- Maintains transformer efficiency.

## Product/Part Number

TR06000513	1 x 20	TR06000533	1 x 25
TR06000563	1 x 200	TR06000573	1 x 208
TR06000603	1x1000		

## Technical Specifications

Tests	Method	Results
Appearance	Visual	Clear & Bright
Color	D-1500	Transparent
Kinematic Viscosity @ 40 °C mm <sup>2</sup> /sec	ISO-3104	<12
Kinematic Viscosity @ -30 °C mm <sup>2</sup> /sec	ISO-3104	<1800
Pour Point, °C	ISO-3016	<-39
Water Content (PPM)	IEC-60814	<30 mg/kg
Breakdown Voltage	IEC-60156	>30 kV
Density @20°C, kg/dm <sup>3</sup>	ISO-3675	<0.8950
Dielectric Dissipation Factor @ 90 °C & 40 to 60 Hz	IEC-60247	<0.005
Acidity	IEC 62021-1	<0.01 mg KOH/gm
Inter Facial Tension MN/m	EN 14210	>40
Total Sulphur Content	IP 373	-
Corrosive Sulphur	DIN 51353	Not Corrosive
Potentially Corrosive Sulphur	IEC 62535	Not Corrosive
DBDS (Dibenzylsulphide) mg/kg	IEC 62697	Not Detectable(<5mg/kg)
Inhibitors of IEC 60666	IEC 60666	Inhibited Oil; (0.08% to 0.4%)
Metal Passivator Additives mg/kg	IEC 60666	Not Detectable
2 Furfural Content mg/kg/gm	IEC-61198	Not Detectable
Oxidation Stability @120°C, 500 HRS	IEC 61125:1992 INHIBITED OIL: 500h	
(A.) Total Acidity mg KOH /gm	1.9.4 of IEC 61125:1992	<1.2
(B.) Sludge %	1.9.1 of IEC 61125:1992	<0.8



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(C.) DDF @ 90 °C	1.9.6 Of IEC 61125:1992 Amendment 1(2004) +IEC 60247	<0.5
Flash Point	ISO 2719	>135 °C
PCA Content %	BS-2000 PART 346	<3.0%
Carbon Type Analysis	FTIR	
CA %		4.0 to 12.0
CP %		<50.0
CN %		<42.0



## HEALTH AND SAFETY

This product is not expected to have adverse health implications when used for its intended application. For detailed information on safe handling of this product, refer to its Material Safety Data Sheet (MSDS). To obtain an MSDS on this or any other BENZOL products, please visit [www.benzollubricants.de](http://www.benzollubricants.de)

