

# AMALIE<sup>®</sup>

Better than it has to be<sup>®</sup>  
Since 1903



# TRANSFORMER OIL

## TYPE I

### BENEFITS:

- » High Stability at High Temperatures
- » Excellent Electrical Insulating Capabilities
- » Meets Numerous Industry Standards



MADE IN U.S.A.



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# TRANSFORMER OIL TYPE I

**AMALIE Transformer Oil Type I** is a non-additized naphthenic electrical transformer insulating oil meeting the requirements of IEC 60296 (05). Formulated from severely hydrotreated naphthenic crude to produce a highly refined mineral oil, **AMALIE Transformer Oil Type I** provides both stability at high temperature and excellent electrical insulating capabilities.

## PHYSICAL AND CHEMICAL PROPERTIES

Physical, Electrical & Chemical Properties:	Test Method IEC	Limits
Appearance	-	Clear, free from sediments and suspended matter
Density g/ml at 20 °C	ISO 3675	0.895 Max.
Kinematic Viscosity, cSt. @ 40 °C @ -30 °C	ISO 3104	12 Max. 1800 Max.
Flash Point, °C (P.M.)	ISO 2719	135 Min.
Pour Point, °C	ISO 3016	-40 Max.
Acidity, mgKOH/g oil	IEC 62021	0.01 Max.
Corrosive Sulphur	DIN 51353	Non-Corrosive
Potentially Corrosive Sulphur	IEC 62535	Non-Corrosive
DBDS	IEC 62697-1	Not Detectable (<5mg/kg)
Furfural and Related Compounds Content	IEC 61198	Not Detectable (<5mg/kg) for each individual compound
Water Content, mg/Kg a- On filling into drums	IEC 60814	a- 30 mg/kg Max.
Antioxidant Additives, wt%	IEC60666	Not Detectable
Oxidation Stability, 164 Hr. a- Total Acidity, mgKOH/g oil b- Sludge, Wt.% c- DDF @ 90 °C	IEC 61125-C	a- 1.2 Max. b- 0.8 Max. c- 0.500 Max
Aromatic Content	IEC 60590	Below 15%
Breakdown Voltage: a- On filling into drums	IEC 60156	a- 65 K.V. Min.
Dissipation factor @ 90 °C and 40 Hz to 62 Hz	IEC 60247	0.005 Max.
Gassing Tendency at 50 Hz after 120 min, mm <sup>2</sup> /min	IEC 60628	To be Reported
PCB	IEC 61619	Not Detectable
Interfacial Tension, mn/m	ASTM D 971	40 Min.
CP (Carbon Bonded Paraffinic), %	IR	Below 50

### Additional Information

**AMALIE Transformer Oil Type I** raw materials are sourced from either American or European suppliers. Please use proper handling and care that you would use with any transformer oil.

Please consult AMALIE Technical Services or your local representative for a full listing of applications.

Technical Services: • (800) 368-1264 • [techservices@amalie.com](mailto:techservices@amalie.com)

The data presented herein are believed to be accurate; however, Amalie Oil Company shall not be liable for its content and makes no warranty with respect thereto.

### Health and Safety

Safety Data Sheets (SDS) are available from your sales representative or at [AMALIE.com](http://AMALIE.com).

### TRANSFORMER OIL

VISCOSITY	PACK SIZE	PART #
	55 Gallon Drum	160-68063-05