



# ATLANTIC TRANSFORMER OILS

High Quality Electrical Insulating Oil

## PRODUCT DATA

### DESCRIPTION

**ATLANTIC TRANSFORMER OILS** are high quality electrical insulating oil manufactured from highly refined mineral oils. It offers good dielectric properties, good oxidation stability and provides efficient heat transfer. It has excellent low temperature properties & are intended for transformers, switchgears and other electrical equipment. It comes in two grades, uninhibited or inhibited.

**ATLANTIC TO-U** is uninhibited and meets the specifications IEC 60296 (82) Class I and II, BS 148:97 Class I and II, ASTM D 3487 type I.

**ATLANTIC TO-I** is inhibited to ensure improved oxidation resistance and meets the specifications IEC 60296 (82) Class IA and IIA.

### APPLICATIONS

**ATLANTIC TRANSFORMER OILS** are recommended for use in oil filled transformers and switchgears in which the oil is required as an insulation medium or as a heat transfer medium. They are not suitable for use in oil filled cables, for special impregnation processes or for use in capacitors.

**ATLANTIC TO-U** is to be used in applications specifying IEC 60296 (82) Class I or II, BS 148:97 Class I or II, ASTM D 3487 type I products.

**ATLANTIC TO-I** is to be used in applications specifying IEC 60296 (82) Class I A or II A products

### PRODUCT BENEFITS

- Superior insulating properties due to: high dielectric breakdown voltage, volume resistivity, interfacial surface tension and absence of polar substances
- Outstanding resistance to oxidation
- Free from wax even at low temperatures and thus circulates freely in outdoor applications
- ATLANTIC TO-U is inhibited with a phenolic anti-oxidant to increase the service life in applications operating with a significant exposure to air
- Very high purity levels minimize power factors and help to prevent temperature rises
- Excellent cooling properties due to good fluidity and heat transfer capacities
- Highly refined oil ensures chemical stability and durability in service
- Ultra efficient protection of equipment due to non corrosive nature and cleaning properties
- Extension of life time of the transformer and the oil
- Improvement of safety and efficiency
- Reduction of breakdowns and maintenance cost

### RECOMMENDATIONS / SPECIFICATIONS

ATLANTIC TO-U : IEC 60296 (82) Class I and II, BS 148:97 Class I and II, ASTM D 3487 type I

ATLANTIC TO-I : IEC 60296 (82) Class IA and IIA

TYPICAL TECHNICAL PROPERTIES		
	ATLANTIC TO-U	ATLANTIC TO-I
Product code	126111L	126121L
Density at 20°C, kg/dm <sup>3</sup> , ISO 12185	0.886	0.876
Viscosity, mm <sup>2</sup> /s, @ 40°C, ISO 3104	8.9	7.6
Flash Point (PMCC), °C, ISO 2719	148	184
Pour Point, °C, ISO 3016	-57	-60
Neutralisation Number, mg KOH/g, IEC 60296	<0.01	<0.01
Corrosive Sulphur, ISO 5662	Non-corrosive	Non-corrosive
Oxidation Stability @ 100°C /164 h, IEC 61 125		
-neutralisation number, mg KOH/g	0.15	0.01
-sludge, wt%	0.02	0.005
Dielectric Dissipation Factor @ 90°C, IEC 60247	<0.005	<0.005
Interfacial Tension, mN/m, ISO 6295	>40	>40
Breakdown voltage		
- before treatment, kV, IEC 60156	>30	>30
- after treatment, kV, IEC 60296	>70	>70

**Note:** These characteristics are typical of current production. While future production will conform to Atlantic's specification, variations in these characteristics may occur.



Packing : 1 | 4 | 5 | 20 | 25 | 208L