



ATLANTIC PREMIUM TRANSFORMER OIL UNINHIBITED – 60

High-Performance Paraffinic Uninhibited Insulating Oil

PRODUCT DESCRIPTION & APPLICATION

ATLANTIC PREMIUM TRANSFORMER OIL PARAFFINIC UNINHIBITED – 60 is a superior-grade uninhibited transformer oil, formulated using hydro-cracked and hydro-treated base stocks. With negligible sulfur content, it helps prevent copper corrosion and avoids unexpected transformer shutdowns and component failures. It aligns with IEC 60296:2020 Edition 5 standards, ensuring high reliability in demanding conditions. It is recommended for use in power and distribution transformers, switchgear, condensers, x-ray machines, transducers, inductors and other high-voltage electrical components.

FEATURES AND BENEFITS

- Exceptional dielectric strength for safe electrical insulation.
- Performs reliably even at low temperatures.
- Enhanced thermal and chemical stability for long-term operation.
- Safe interaction with transformer materials and winding insulation.
- Protects internal components from sludge and acid buildup.

PERFORMANCE STANDARDS

Conforms to IEC 60296:2020 Edition 5.0 for uninhibited transformer oil.

TYPICAL TECHNICAL PROPERTIES

PRODUCT CODE		NR-SL-DF-25006
Characteristics	Specification	Typical value
Function		
Color, ISO 2049	Max. 1.5	Report
Density @20°C ,kg/dm3, ISO 3675 or ISO 12185	0.895 Max	0.871
Kinematic Viscosity, ISO 3104 @40°C ,mm2/Sec @ -30°C ,mm2/Sec	12 Max 1800 Max	9.7 941
Pour Point ,°C, ISO 3016	-40 Max	-48
Breakdown Voltage, IEC 60156	Min. 30 kV as delivered Min. 70 kV after lab treatment	52 72
Dielectric Dissipation Factor @90°C & 40°C To 60 Hz, IEC-60247 OR IEC 61620	0.005 Max	<0.005
Refining/ Stability		
Appearance, Visual	Clear, Free from Sediment & Suspended Matter	Clear, Free from Sediment & Suspended Matter
Inter Facial Tension ,mN/m, EN 14210 OR ASTM D971	40 Min	47
Corrosive Sulphur, DIN 51353	Non-Corrosive	Non-Corrosive
Potentially Corrosive Sulphur, IEC 62535	Non-Corrosive	Non-Corrosive
DBDS(Dibenzylidisdulphide) ,mg/kg, IEC 62697	Not Detectable(<5mg/kg)	Not Detectable
Metal Passivator Additives mg/kg, IEC 60666	Not Detectable	Not Detectable
2 Furfural Content ,mg/kg/gm, IEC-61198	Not Detectable(<0.05mg/kg)	Not Detectable
Performance		
Oxidation Stability @120°C, 500 Hrs, IEC-61125 A) Total Acidity ,mg KOH /gm, 4.8.4 of IEC 61125:2018 B) Sludge ,%, 4.8.1 of IEC 61125:2018 C) DDF @ 90 °C, 4.8.5 Of IEC 61125:2018	1.2 Max 0.8 Max 0.5 Max	0.7 0.2 0.044
Health, Safety and Environment		
Flash Point ,°C, ISO 2719	135 Min	144
PCA Content ,%, BS-2000 Part 346	3.0 Max	<3.0
PCB Content mg/kg/gm, IEC-61619	Not Detectable	Not Detectable

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

ATL/PDS/IL/012/02*, 01.06.25, Page 1/1

* supersedes all previous versions

Packing: 208L