



ATLANTIC TRANSFORMER OIL NAPHTHENIC UNINHIBITED - 60

PRODUCT DESCRIPTION & APPLICATION

ATLANTIC TRANSFORMER OIL NAPHTHENIC UNINHIBITED is a high-grade insulating fluid formulated through advanced R&D efforts using premium base stocks. It delivers excellent dielectric performance and superior thermal conductivity. Developed with precision refining processes, ATLANTIC TRANSFORMER OIL NU-60 complies with the IEC 60296:2020 (Edition 5) specifications for uninhibited naphthenic transformer oils.

ATLANTIC TRANSFORMER OIL NAPHTHENIC UNINHIBITED is recommended for use in electrical transformers, inductors, transducers, switchgear, and condenser units within power distribution systems.

FEATURES AND BENEFITS

- Proven track record in both performance and reliability
- Acts as a medium for effective heat dissipation and assists in stabilizing internal moisture.
- Good heat transfer. Thanks to low viscosity & viscosity index
- Naphthenic oil based formulation ensures low viscosity, resulting in better oil circulation and efficient transformer cooling.
- High dielectric strength.

PERFORMANCE STANDARDS

Conforms to IEC 60296:2020 Edition 5 for naphthenic uninhibited transformer oil.

TYPICAL TECHNICAL PROPERTIES

PRODUCT CODE	NR-SL-DF-25003	
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	0.8710
Kinematic Viscosity, ISO 3104 @40°C ,mm2/Sec @ -30°C ,mm2/Sec	12 Max 1800 Max	9.41 980.54
Pour Point ,°C, ISO 3016	-40 Max	-45
Water Content ,ppm, IEC-60814 Drum In Bulk	40 Max 30 Max	14
Breakdown Voltage, IEC 60156 As delivered After lab treatment	Min. 30 kV Min. 70 kV	72
Dielectric Dissipation Factor @90°C & 40°C To 60 Hz, IEC-60247 OR IEC 61620	0.005 Max	0.0003
Refining/ Stability		
Appearance, Visual	Clear, Free from Sediment & Suspended Matter	Clear, Free from Sediment & Suspended Matter
Acidity ,mg KOH/gm, IEC 62021-1 OR IEC62021-2	0.01 Max	0.0002
Inter Facial Tension ,mN/m, EN 14210 OR ASTM D971	40 Min	52
Corrosive Sulphur, DIN 51353	Non-Corrosive	Non-Corrosive
Potentially Corrosive Sulphur, IEC 62535	Non-Corrosive	Non-Corrosive
DBDS(Dibenzylidisedulphide) ,mg/kg, IEC 62697	Not Detectable(<5mg/kg)	Not Detectable
Inhibitors of IEC 60666, IEC 60666	(U) Uninhibited Oil; Not Detectable (<0.01%)	Not Detectable
Metal Passivator Additives mg/kg, IEC 60666	Not Detectable	Not Detectable
2 Furfural Content ,mg/kg/gm, IEC-61198	0.1 Max	Nil
Performance		
Oxidation Stability @120°C, 164 Hrs, IEC-61125 (METHOD C) 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	0.006 0.002 0.008
Health, Safety and Environment		
Flash Point (PMCC) ,°C, ISO 2719	135 Min	146
PCA Content ,%, BS-2000 Part 346	3.0 Max	0.17
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.

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* supersedes all previous versions

Packing: 208L