

K1 Lube Transformer I

Inhibited Transformer Oil

IEC 60296:2012, KS C 2301 Class 1



DESCRIPTION

K1 Lube Transformer I is a highly refined and inhibited transformer oil that meets the IEC 60296:2012 transformer oil specification for use in harsh conditions such as high ambient temperatures. It should also be used where insulating oils that require oxidation resistance and thermal stability are required. It has no impurities such as water, dissolved gas, DBDS, suspended solid and PCB.

APPLICATIONS

- Transformers
- Oil-immersed switchgear
- Circuit breakers
- Oil-filled capacitors
- Tap changers
- Electrical reclosures
- Fuses

PERFORMANCE STANDARDS

- IEC 60296:2012, KS C 2301 Class 1

CUSTOMER BENEFITS

Extended Service Life

Effective anti-oxidants limit the formation of sludge, deposits and soluble compounds that degrade the electrical properties of oils under harsh, high ambient temperatures or long-term conditions of use.

Prolongs Transformer Life

Excellent conductive heat transfer properties improve cooling of transformer components. Low solvency protects electrical wire enamels.

Maximizes Life of Oil-immersed Switches

Rapid cooling of the arc reduces contact erosion.

Maintains transformer efficiency

High dielectric strength and low dielectric permittivity provide excellent insulating properties.

KEY PROPERTIES

PROPERTIES	UNITS	TRANSFORMER I
Appearance	Clear	Clear
Density @ 15°C	g/cm ³	0.8225
Viscosity at -30°C	cSt	269
Viscosity at 40°C	cSt	7.483
Viscosity at 100°C	°C	2.218
Pour Point °C	°C	-55
Flash Point °C	mg KOH/g	151
Acidity	-	< 0.01
Oxidation Stability	mg KOH/g	-
Total Acidity	-	< 0.01
Sludg	wt%	< 0.01
DDF @ 90 °C	-	0.0057
Inhibitors of IEC 60666	wt%	0.3
Water Content	mg/kg	17
Breakdown Voltage	kV	81 / 81
Dissipation Factor at 90°C	-	0.0003
Corrosive Sulfur	-	Non Corrosive
Potentially Corrosive Sulfur	-	Non Corrosive
PCBs	mg/kg	Undetectable
DBDS	mg/kg	Undetectable
Metal Passivator additives	mg/kg	Undetectable
Furfural and related compounds	mg/kg	Undetectable
Package	Liters	200