I SERIES TRANSFORMER OIL
I-10, I-20, I-30, I-40

Description

Goncord I Series Transformer Oil is formulated with specially selected high-quality naphthenic oil. It boasts exceptional insulation performance, low-temperature fluidity, electric field gasification stability, and antioxidant properties.

Features

1. **Enhanced insulation:** Transformer oil provides superior insulation performance, safeguarding electrical equipment from potential breakdowns and ensuring reliable operation.
2. **Low-temperature fluidity:** Even in frigid environments, transformer oil maintains its fluidity, ensuring optimal performance and minimizing the risk of oil solidification.
3. **Electric field gasification stability:** Transformer oil exhibits exceptional electric field gasification stability, preventing the formation of harmful gases that could degrade insulation properties.
4. **Antioxidant protection:** Transformer oil's antioxidant properties effectively combat oxidation, extending the oil's lifespan and protecting electrical equipment from deterioration.

Applications:

I series transformer oil finds extensive use in various oil-filled electrical equipment, including:

- Power transformers
- Reactors
- Switches

Meet the following standards

GB/T2536-2011, GB/T7595-2008 (China)
IEC60296-2012 (International)
BS148 (UK)
ASTM3487 (USA)

Typical Properties

I SERIES TRANSFORMER OIL									
PROPERTY	**QUALITY REFERENCE**				**RESULTS**				**METHOD**
1. FUNCTIONAL CHARACTERISTICS									
Minimum Cold Operating Temperature (LCSET), °C	-10	-20	-30	-40	-10	-20	-30	-40	
Pour Point, °C	<-20	<-30	<-40	<-50	-30	-40	-43	-52	GB/T 3535
Viscosity, mm²/s @40°C @-10°C @-20°C @-30°C @-40°C	<12 <1800 - - -	<12 - <1800 - -	<12 - - <1800 -	<12 - - - <2500	9.789 180.1 - - -	9.816 - 580.1 - -	9.879 - - 1601 -	9.895 - - - 2250	GB/T 265 NB/SH/T0837
Water Content, mg/kg	<30-40				9.1	9.0	9.2	8.9	GB/T 7600
Breakdown voltage (Before Treatment), kV	>30				60.2	60.5	60.3	64	GB/T 507
Density @20°C, kg/m³	<895				880.3	883.8	882.5	882.1	GB/T 1884 GB/T 1885
Dielectric loss factor @90°C	<0.005				0.0006	0.0006	0.0006	0.0005	GB/T 5654
2. REFINING/STABILIZING CHARACTERISTICS									
Appearance	Clear and transparent, free from sediment or suspended matter								Visual
Acid value, mg KOH/g	<0.01				0.009	0.009	0.009	0.009	NB/SH/T 0836
Water soluble acids or alkalis	Nil				Nil				GB/259
Interfacial Tension, mN/m	>40				44	45	45	46	GB/T 6541
Sulfur content, m%	-				0.02	0.02	0.02	0.02	SH/T 0689
Corrosive Sulphur, mg/kg	Non corrosive				Non corrosive				SH/T 0804
Antioxidant additive content, m%	0.08-0.40				0.30				SH/T 0802
2 Furfural content, mg/kg	<0.1				0.02	0.02	0.02	0.02	NB/SH/T 0812
3. OPERATING CHARACTERISTICS (OXIDATION STABILITY, 500 HRS)									
Total Acid value, mg KOH/g	<1.2				0.5	0.5	0.5	0.5	NB/SH/T 0811
Sludge, m%	<0.8				0.2	0.2	0.2	0.2	NB/SH/T 0811
Dielectric loss factor @90°C	<0.5				0.15	0.15	0.15	0.15	GB/T 5654
4. HEALTH, SAFETY AND ENVIRONMENTAL PROTECTION CHARACTERISTICS (HSE)									
Flash point (closed cup), °C	>135				141	141	141	141	GB/T 261
Polycyclic Aromatics (PCA) content, m%	<3				1	1	1	1	NB/SH/T 0838
Polychlorinated biphenyl (PCB) content, mass faction, mg/kg	Undetectable				Undetectable				SH/T 0803