I (SPECIAL) SERIES TRANSFORMER OIL
IS-10, IS-20, IS-30, IS-40

Description

Goncord I (Special) 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. Design for transformer operating at higher temperature while extending the equipment's service life.

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 (Special) 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 (SPECIAL) SERIES TRANSFORMER OIL							
PROPERTY	**QUALITY REFERENCE**			**RESULTS**			**METHOD**
1. FUNCTIONAL CHARACTERISTICS							
Minimum Cold Operating Temperature (LCSET), °C	-20	-30	-40	-20	-30	-40	
Pour Point, °C	<-30	<-40	<-50	-40	-43	-53	GB/T 3535
Viscosity, mm²/s @40°C @-20°C @-30°C @-40°C	 <12 <1800 - -	 <12 - <1800 -	 <12 - - <2500	 9.821 572.5 - -	 9.757 - 1612 -	 9.653 - - 2200	 GB/T 265 NB/SH/T0837
Water Content, mg/kg	<30-40			8.9	9.1	9.0	GB/T 7600
Breakdown voltage (Before Treatment), kV	>30			60.8	61	61	GB/T 507
Density @20°C, kg/m³	<895			885.6	884.4	884.7	GB/T 1884 GB/T 1885
Aniline Point, °C	Report			76.6	76.6	76.6	GB/T 262
Dielectric loss factor @90°C	<0.005			0.00059	0.00059	0.00059	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	0.008	0.008	NB/SH/T 0836
Water soluble acids or alkalis	Nil			Nil			GB/259
Interfacial Tension, mN/m	>40			45	45	45	GB/T 6541
Sulfur content, m%	<0.15			0.0189	0.0160	0.0162	SH/T 0689
Corrosive Sulphur, mg/kg	Non corrosive			Non corrosive			SH/T 0804
Antioxidant additive content, m%	0.08-0.40			0.30	0.30	0.30	SH/T 0802
2 Furfural content, mg/kg	<0.05			0.019	0.012	0.011	NB/SH/T 0812
3. OPERATING CHARACTERISTICS (OXIDATION STABILITY, 500 HRS)							
Total Acid value, mg KOH/g	<0.3			0.04	0.04	0.04	NB/SH/T 0811
Sludge, m%	<0.05			0.020	0.020	0.020	NB/SH/T 0811
Dielectric loss factor @90°C	<0.050			0.004	0.004	0.004	GB/T 5654
4. HEALTH, SAFETY AND ENVIRONMENTAL PROTECTION CHARACTERISTICS (HSE)							
Flash point (closed cup), °C	>135			141	141	141	GB/T 261
Polycyclic Aromatics (PCA) content, m%	<3			1	1	1	NB/SH/T 0838
Polychlorinated biphenyl (PCB) content, mass faction, mg/kg	Undetectable			Undetectable			SH/T 0803