High Overload Transformer Oil

Description

Goncord is pioneer in introducing high overload transformer oil in China and have actively contributed to the establishment of standards for high overload transformer oil, as set forth by the State Grid Corporation of China.

Properties

TEST ITEMS	SPECIFICATIONS		TYPICAL VALUE		TEST METHOD
FUNCTIONAL CHARATERISTIC					
Lowest cold start energizing temperature (LCSET)	-20°C	-30°C	-20°C	-30°C	
Pour Point,°C	<-30°C	<-40°C	-35°C	-43°C	GB/T 3535
Visc@ -40°C, mm²/s	<12	<12	11.28	11.26	GB/T 265
Visc@ -10°C, mm²/s	-	-	-	-	
Visc@ -20°C, mm²/s	<1800	-	1360	-	
Visc@ -30°C, mm²/s	-	<1800	-	1560	
Water content, mg/kg	<40		9.6	10	GB/T 7600
Dielectric Strength, kv Untreated Oil	>30		61.2	60.5	GB/T 507
Density@20°C, kg/m³	<895		844	844	GB/T1884, GB/T 1885
Dielectric Dissipation Factor, 90°C	<0.005		0.0036	0.0036	GB/T 5654
STABILITY FACTOR					
Appearance	Clear free from impurities				Visual inspection
Acidity, mgKOH/g	<0.01		0.01	0.01	NB/SH/T 0836
Interface Tension, mN/m	>40		47	47	GB/T 6541
Total Sulfur, wt %	<0.15		0.01	0.01	SH/T 0689
Corrosion Sulfur	Non-corrosive		Non-corrosive		SH/T 0804
Furfural content, mg/kg	<0.05		0.01	0.01	NB/SH/T 0812
OPERATING CHARATERISTIC					
Oxidation stability					NB/SH/T 0811
TAN, mgKOH/g	<0.3		0.04	0.04	
Oil Sludge, wt.%	<0.05		0.007	0.007	
Dielectric Dissipation Factor, 90°C	<0.05		0.0036	0.0036	
HEALTHY/SAFETY/ENVIRONMENTAL CHARATERISTIC（HSE）					
Flash Point (PMCC), °C	>160		175	175	GB/T 261
PCA content wt.%, ppm	3		1	1	IP 346
PCB content wt.%,mg/kg	Undetectable		Undetectable		SH/T 0803

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