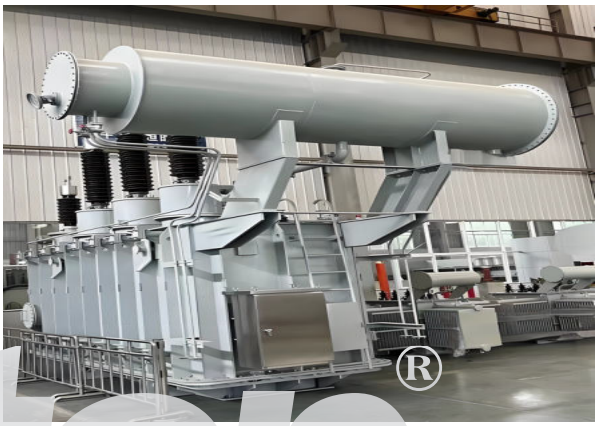
Transformer oil

Performance Overview

Maxtop transformer oil, also known as insulating oil, is a natural hydrocarbon mixture from petroleum refining. It is a mineral insulating oil made by adding functional additives to the unused refined fraction base oil obtained by hydrogenation and fractionation. Its main components are straight-chain alkanes, cycloalkanes and other compounds. It is a water-white transparent liquid.



Features

01

Insulation effect: Transformer oil has a much higher dielectric strength than air.

02

Heat dissipation: Transformer oil has a large specific heat and is often used as a coolant.

03

Arc extinguishing effect: prevent the generation of corona and arc discharge.

04

Anti-cavitation formula: reduces bubble formation and reduces the risk of partial discharge.

05

Recyclable: Through filtration, dehydration process to restore performance, reduce the cost of use

06

Synthetic oil (silicone oil/synthetic hydrocarbon) meets IEC 60296 standards, is economical and practical, and is suitable for conventional power transformers.

Application Scenario

It is used in insulating oils for transformers, switches and electrical equipment, such as generator transformers, mutual inductors, distribution transformers, ultra-high voltage DC transmission substations, rectifiers, circuit breakers, bushings, inductive transformers and switches in electrical equipment.

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Transformer oil performance indicators

Project		Quality indicators				
Lowest cold set temperature (LCSET)		0℃	-10℃	-20℃	-30℃	-40℃
Pour point/ ℃	not higher than	-10	-20	-30	-40	-50
Kinematic viscosity, mm2 / s						
40℃	not more than	12	12	12	12	12
0℃	not more than	1800	-	-	-	-
-10℃	not more than	-	1800	-	-	-
-20℃	not more than	-	-	1800	-	-
-30℃	not more than	-	-	-	1800	-
-40℃	not more than	-	-	-	-	2500
Water content/(mg/kg)	not more than	30/40				
Breakdown voltage (meet one of the requirements)/KV						
Untreated oil	not less than	30				
The treated oil is	not less than	70				
Density (20 ℃)/(kg/m 3)	not more than	895				
Dielectric loss factor (90 ℃)	not more than	0.005				
Acid value (in KOH)/(mg/g)	not more than	0.01				
Water soluble acid or base		无				
Interfacial tension/(mN/m)	not less than	40				
Flash point (closed cup) / ℃	not less than	135				

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