



Mobilect™ 36

Mobil Industrial , Chile

Electrical insulating oils

Product Description

Mobilect™ 36 is a mineral uninhibited insulating oil with dielectric properties and oxidation stability intended for transformers, switchgears and other electrical equipment. Mobilect 36 meets ASTM D3487, Type I.

Features and Benefits

Mobilect has resistance to thermal and chemical degradation in the presence of iron and copper, which reduces tendencies to produce sludge and oil-soluble oxidation products. When lower quality oils are used these may form deposits in the transformer and impede heat transfer by interfering with convection currents. In addition deposits may accelerate insulation defects and are often very difficult to remove without complete dismantling.

- The dielectric strength of Mobilect is a measure of the resistance of the oil to electric stress and is expressed in kV across a specified gap under test conditions. This is not a measure of the quality of the oil but of the absence of contaminants - especially moisture, fibres and polar chemicals.
- Mobilect is free from wax even at low temperatures and thus circulates freely in outdoor applications. Its viscosity ensures readily heat transfer by mobile convection currents. Mobility is also essential to quick quenching of arcs in switchgear units.
- The low pour point of Mobilect ensures a free flow in most conditions between the transformer and the conservator and maintains the reliability of tap changers at the lowest temperatures.

Applications

Mobilect is recommended for use in oil filled transformers and witch gears in which the oil is required as an insulation medium or as a heat transfer medium.

Specifications and Approvals

This product meets or exceeds the requirements of:

ASTM D3487, Type I

Properties and Specifications

Property	
Interfacial Tension, 25 C, mN/m, ASTM D971	50
Flash Point, Cleveland Open Cup, °C, ASTM D92	150
Oxidation Stability @ 164 hr - Acid Number C, mgKOH/g, ASTM D2440	0.1
Breakdown Voltage, kV, ASTM D877	55
Density @ 15 C, kg/l, ASTM D4052	0.89
Pour Point, °C, ASTM D97	-60
Kinematic Viscosity @ 40 C, mm ² /s, ASTM D445	9

Health and safety

Health and Safety recommendations for this product can be found on the Material Safety Data Sheet (MSDS) @ <http://www.msds.exxonmobil.com/psims/psims.aspx>

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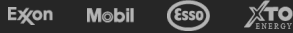
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