

ESPRO TRANSFORMER OIL**DESCRIPTION**

ESPRO TRANSFORMER OIL is a type of transformer oil that is designed to be safe for human use and the environment. Transformer oil is a type of insulating oil that is used in transformers and other electrical equipment to provide insulation and cooling. The safety of transformer oil is a critical concern, as it can come into contact with people and the environment if there is a leak or spill.

PROPOSED USAGE

- Electric transformers
- Switch gears
- Insulating fluid-required circuit breakers
- High oxidation stability
- Long product life due to excellent ageing qualities

MEETS SPECIFICATION

ESPRO TRANSFORMER OIL exceeds IS: 335:1993 performance levels. It also meets IS:335-2018 TYPE II UNINHIBITED.

Physio Chemical Properties

Appearance	Clear and transparent and free from suspended matter of sediments
Density at 29.5 °C, g/cc	0.8279
Kinematic viscosity, cst	
At 27°C	16.46
At 40°C	11
Interfacial tension at 27°C	0.044 N/m
Flash point pensky-marten (closed),°C	172
Pour point,°C	-18

Neutralization value, mg KOH/g	
a) Total acidity	Nil
b) Inorganic acidity/alkalinity	Nil
Corrosive sulphur	Non corrosive
Electric strength (breakdown voltage) –kV(rms)	
a) New unfiltered oil	72
Dielectric dissipation factor at 90 °C	0.00025
Specific resistance (resistivity)	
a) A:90 °C	750x1012 ohm-cm
b) A:27 °C	11300x1012 ohm-cm

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Oxidation stability	
a) Neutralization value after oxidation, mg KOH/g	0.4
b) Total sludge after oxidation,% by wt.	0.1
AGEING CHARACTERISTICS AFTER AGEING	
Open breaker method with copper characteristics	
Specific resistance (resistivity)	
a) A:27 °C	350x10 ¹² ohm-cm
b) A:90 °C	19x10 ¹² ohm-cm
c) dielectric dissipation factor at 90 °C	0.0025/2.08 DC
d) total acidity	NIL
e) total sludge	NIL
Presence of oxidation inhibitor,% by wt	Absent
Water content, mg/kg(ppm)	50
SK value (%)	1