LUBRICANTS

POWER TO PERFORM

HP TRANSFORMER OILS

DESCRIPTION

HP TRANSFORMER OIL is designed for human safety and free from carcinogenic Poly chlorinated Bi-phenyls (PCB) and Poly aromatic hydrocarbon (PAH).

PROPOSED USAGE

- Electric transformers
- Switch gears
- Circuit breakers which require insulating fluids
- Has very high oxidation stability
- Excellent ageing properties resulting in long product life

APPROVALS

HP TRANSFORMER OIL is certified Central Power Research Institute (CPRI), Bangalore and Electrical Research and Development Association (ERDA), Vadodara

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MEETING SPECIFICATION

HP TRANSFORMER OIL exceeds IS: 335:1993 (Reaffirmed 2005) performance levels

PHYSICO-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 At 40°C	 16.46 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 b) Inorganic acidity/alkalinity	 Nil Nil

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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 b) A:27 °C	 $750x10^{12}$ ohm-cm $11300x10^{12}$ ohm-cm
Oxidation stability a) Neutralization value after oxidation, mg KOH/g b) Total sludge after oxidation,% by wt.	 0.4 0.1
AGEING CHARACTERISTICS AFTER AGEING	
Open breaker method with copper characteristics	
Specific resistance (resistivity) a) A:27 °C b) A:90 °C c) dielectric dissipation factor at 90 °C d) total acidity e) total sludge	 $350x10^{12}$ ohm-cm $19x10^{12}$ ohm-cm 0.0025/2.08 DC NIL NIL
Presence of oxidation inhibitor,% by wt	Absent
Water content, mg/kg(ppm)	50
SK value (%)	1