



LUBRICANTS™

POWER TO PERFORM™

HP TRANSFORMER OIL I

DESCRIPTION

HP TRANSFORMER OIL I is inhibited type transformer oil meeting IS:12463. Inhibited transformer oils can extend the service life of transformer oil.

It also meets IS:335-2018 TYPE II INHIBITED.

PHYSICO-CHEMICAL PROPERTIES

	Test Method	Typical
Appearance	A representative sample of the oil shall be examined in a 100 mm thick layer at 27°C	Clear and transparent and free from suspended matter or sediments
Density at 29.5°C, g/cc	IS 1448 [P : 16] : 1990	0.8279
Kinematic viscosity, at 27°C at 40°C	IS 1448 [P : 25] : 1976	16.46 11.76
Interfacial tension at 27°C,	IS 6104 : 1971	0.044
Flash point Pensky-Marten (closed), °C	IS 1448 [P : 21] : 1992	148
Pour point, °C	IS 1448 [P : 10] : 1970	-18
Neutralization value a) Total acidity, b) Inorganic acidity/alkalinity	IS 1448 [P : 2] : 1967	Nil Nil
Corrosive sulphur	Annex B of IS 335 - 1993	Non Corrosive
Electric strength (breakdown voltage) a) New unfiltered oil, b) After filtration, min	IS 6792 : 1992 Note 2	72
Dielectric dissipation factor (tan δ) at 90°C,	IS 6262 : 1971	0.00025/2.05 DC
Specific resistance (resistivity) a) At 90°C, b) At 27°C,	IS 6103 : 1971	750 × 10 ¹² ohm-cm 7650 × 10 ¹² ohm-cm
Oxidation stability a) Neutralization value after oxidation, b) Total sludge, after oxidation,	IS 12422 - 1988	Nil Nil
Oxidation stability (Rotating Bomb test), minutes	IS 12958 - 1990	210
Oxidation inhibitor, percent by, wt	IS 13631 - 1993	0.26
Water content, ppm	IS 13567 - 1992	9