



TRANSFORMER OIL

PSO Transformer Oil, a pure mineral hydrocarbon oil specially refined and blended with selected base oils. This formulation caters to the insulating needs of coils in transformers, switches, and circuit breakers, offering both electrical and thermal insulation. Refined to provide exceptionally high oxidation resistance and resistance against gas formation, this oil exhibits a high degree of dielectric properties and resistance to power losses. Quality control methods are meticulously employed to meet international specifications and ensure maximum trouble-free service.

Benefits

- Maintains the efficiency of transformers with high dielectric strength.
- Ensures extended service life by dissipating operational heat and keeping components cool through ideal thermal conductivity.
- Control deposit and sludge formation with highly refined base oil and low-temperature properties, thereby extending oil service life and maintaining transformer efficiency.

Application

- Ideal for use in electrical transformers, oil-merged switchgears, circuit breakers, oil-filled capacitors, and tap chargers.

Performance Standard

- IEC 60296

Typical Characteristics*

PROPERTIES	METHODS	TYPICAL RESULTS
Density @ 15°C, kg/L	ISO-12185	0.87
K. Viscosity @ 40°C, cSt	ISO-3104	11
K. Viscosity @ -20°C, cSt	ISO-3104	< 800
Pour Point, °C	ISO-3016	-33
Flash Point (COC), °C	ISO-2719	145
Acidity, mg KOH/g	ISO-62021-1	< 0.01
Corrosive Sulphur	IEC-60296	Pass
Dielectric Dissipation Factor @ 90°C	ISO-60247	0.003
Interfacial Tension, mN/m	ASTM D-971	> 40
Break Down Voltage, BT, kv	IEC-60156	50
Break Down Voltage, AT, kv	IEC-60156	80
Oxidation Stability @ 120°C (164h) Total Acidity, mg KOH/g Sludge, %	IEC-61125C	< 1.2 < 0.8
Water Content, ppm	IEC-60814	15

*These typical characteristics mentioned are based on current mean values.

Based on available information, this product does not contain any component that may produce any significant hazard to health when used for the recommended application. Guidelines for health and safety are available in Material Safety Data Sheet of the product. Dispose of used oil, containers, cartons labels in an environment friendly manner. Do not discharge used oil into drain, soil or water. Advice on application not covered in this leaflet, may be obtained from lubricants.technical@psopk.com