



# TRANSFORMER OIL

PSO Transformer Oil is a pure mineral hydrocarbon oil, specially refined and blended with selected base oils having properties of insulating coils of transformers, switches and circuit breakers, both electrically and thermally. The oil is refined in such a way that it imparts exceptional high oxidation resistance and high resistance against gas formation. The oil shows a high degree of dielectric properties and resistance to power losses. Well-stabilized methods are used to control the quality of the oils in order to meet international specification standard and ensure maximum trouble free service.

## Benefits

- High dielectric strength maintains the efficiency of the transformer.
- Excellent thermal conductivity dissipates the operational heat of transformer's components and keeps them cool to ensure extended service life.
- Highly refined base oil with low temperature properties controls deposit and sludge formation, thus extending lubricant service life and maintaining transformer efficiency.

## Application

- The insulating cooling oil is used in electrical transformers, oil merged switchgears, circuit breaker, 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, kv, (BT) max.	IEC-60156	50
Break Down Voltage, kv, (AT) min.	IEC-60156	80
Oxidation Stability @ 120°C (164-hrs)	IEC-61125C	< 1.2
Total Acidity, mg KOH/g		
Sludge, %		
Water Content PPM, max.	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](mailto:lubricants.technical@psopk.com)