

Transformer Oil

Product Description

TRANSFORMER OIL is a premium performance uninhibited electrical insulating oil formulated with highly refined naphthenic base oil. It meets IEC 60296:2020 (Edition 5) transformer oil specifications and is free from polychlorinated biphenyls (PCBs). The oil provides excellent insulation, cooling, and arc suppression properties, ensuring the longevity and efficiency of electrical components.

Product Features & Benefits

- **Superior Insulation Properties:** High dielectric strength and low dissipation factor ensure reliable electrical insulation.
- **Excellent Cooling Efficiency:** Effective heat dissipation prolongs transformer life.
- **Arc Quenching Properties:** Minimizes contact erosion in oil switches.
- **Enhanced Stability:** Resists sludge formation and deposit buildup, maintaining transformer efficiency.
- **Low Temperature Fluidity:** Ensures performance in extreme climatic conditions.
- **Non-Corrosive:** Contains no corrosive sulfur, reducing risk to electrical components.
- **PCB-Free:** Environmentally safe formulation.

Application

Petrovöll Transformer Oil is recommended for use in:

- Power and distribution transformers
- Oil-immersed switchgear
- Circuit breakers
- Oil-filled capacitors
- Tap changers
- Electrical reclosures
- Fuses

STORAGE & HANDLING

- Store in a cool, dry, and well-ventilated place.
- Avoid contamination with water, dirt, or other oils.
- Follow safety precautions as per the Safety Data Sheet (SDS).

PERFORMANCE STANDARDS

Petrovöll Transformer Oil meets the requirements of:

- IEC 60296:2020 (Edition 5)
- IEC 296

Typical Properties by Viscosity Grade

Property	Method	UNIT	Typical Result
Breakdown Voltage (Before Treatment)	IEC 60156	kV	60
Dissipation Factor @ 90°C	IEC 60247	-	<0.001
Neutralization Value	IEC 62021-2	mgKOH/g	<0.01
Kinematic Viscosity @ 40°C	ISO 3104	mm ² /s	10.1
Kinematic Viscosity @ -30°C	ISO 3104	mm ² /s	1595
Flash Point, PM	ISO 2719	°C	>140
Corrosive Sulfur	IEC 62535	-	Non-Corrosive
Pour Point	ISO 3016	°C	-48

