

TECHNICAL PRODUCT SHEET

# PWR ELECTRO



## DESCRIPTION

PWR ELECTRO is a non-inhibited, premium quality, pure hydrocarbon oil, formulated with special highly refined naphthenic base oils for the lubrication of high voltage transformers and switchgears. It imparts high resistance to oxidation that prevents sludge and acid formation and it is corrosive sulfur-free. It surpasses the strict requirements of the IEC 60296 2020.

## APPLICATIONS

PWR ELECTRO is formulated for use as an insulating and cooling oil in transformers, switchgear assemblies, and circuit breaker systems.

## SPECIFICATIONS

IEC 60296 (ed. 5, 2020)

## PROPERTIES

PWR ELECTRO offers high oxidation resistance and excellent dielectric strength, ensuring reliable insulation performance. Its low viscosity and superior cooling properties enhance heat dissipation and operational efficiency, while its low pour point supports dependable operation in cold environments. The formulation is free of PCBs, further contributing to safety and environmental protection.

## BENEFITS

PWR ELECTRO exhibits low sludge formation and effectively complements solid insulation by filling material clearances, enhancing overall dielectric integrity. It prevents moisture ingress, reduces transformer operating temperatures, and delivers low power-loss performance. Environmentally friendly and versatile, it is suitable for a wide range of transformer applications.



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## PHYSICAL-CHEMICAL CHARACTERISTICS

PWR ELECTRO	METHOD	
Appearance	Visual	B&C
Density at 15°C, g/cm <sup>3</sup>	ASTM D1298	0.885
Viscosity, Kinematic (cSt) 40°C	IEC3104	9.97
Viscosity, Kinematic (cSt) -30°C	IEC 3104	960.0
DFF @ 90°C	IEC60247	<0.001
Water content, ppm	IEC 60814	15
TAN, mgKOH/g	IEC 62021-1	<0.01
Flash point, COC, °C	ISO 2719	152
Breakdown voltage (untreated), kV	IEC 60456	57
Pour point, °C	ISO 3016	-45
Corrosive sulfur	DIN 51353	Non-corrosive
PCB	IEC 61619	Absence

The above mentioned characteristics represent mean values.

## STORAGE

All packages must be stored in covered, well-ventilated areas. If outdoor storage cannot be avoided, barrels must be placed horizontally to prevent water ingress and to protect labels and markings from damage. Products must not be stored at temperatures above 60 °C and must not be exposed to direct sunlight, freezing conditions, or extreme temperature fluctuations.



## HEALTH & SAFETY

This product is not considered to pose significant risks to health or safety when used as intended and in accordance with recommended personal hygiene practices. It must not be applied for purposes other than those for which it has been formulated. For detailed guidance on safe handling and use, refer to the Safety Data Sheet (SDS).



## USED OILS

Used lubricants must be collected at designated collection points to prevent environmental contamination. They must not be mixed with solvents, brake fluids, or antifreeze.

