

Low-Temperature Switchgear Oil

Product reference: GYYY-37

Electrical insulating fluid intended for switchgear operating in low-temperature environments.

Low-Temperature Switchgear Oil

Product name

Low-Temperature Switchgear Oil

Standard reference

GB/T 2536-2011

Product overview

Low-Temperature Switchgear Oil is produced from lubricating oil distillates through hydrotreating and fractionation.

Performance features

It has a pour point below -60°C, excellent low-temperature fluidity, thermal and oxidation stability, and excellent electrical insulating properties. High breakdown voltage and a low dielectric loss factor help prevent electrical discharge and power losses in high-voltage electric fields. Its performance is stable and reliable. Good resistance to gas evolution helps prevent discharge across gas gaps in high-voltage electric fields. It is also an environmentally friendly transformer oil because it contains no polychlorinated biphenyls.

Applications

Suitable for switchgear operating at low temperatures.

Packaging

170 kg drums; IBC containers; flexitanks

Minimum order quantity

3–10 tonnes

Mixed loading

Mixed loading is not permitted.

Application limitations

- For transformers and instrument transformers operating at ordinary ambient temperatures, the general-purpose I/U/T series is sufficient.
- For extra-high voltage transformers above 500 kV, select Extra-High Voltage Transformer Oil.

For grade selection, technical requirements, packaging and commercial terms, contact sales@petronexusgroup.com.

Product visual and technical data

PETRONEXUS

Low-Temperature Switchgear Insulating Oil

Reliable Insulation for Cold Climate Conditions

Pour Point: **Below -60°C**
High Performance Mineral Insulating Oil

Ultra-Low Pour Point
 Excellent Insulation
 Stable Performance
 PCB-Free

PRODUCT PERFORMANCE

- Ultra-low pour point below -60°C
- Excellent low-temperature fluidity
- Excellent thermal and oxidation stability
- Excellent electrical insulation properties
- High dielectric breakdown voltage
- Low dielectric dissipation factor
- Good resistance to gas evolution under high electrical stress
- Stable and reliable dielectric performance
- PCB-free formulation

DESIGNED FOR COLD CLIMATE OPERATION

Stable Performance in Extreme Environments



PRODUCT DESCRIPTION

PETRONEXUS Low-Temperature Switchgear Insulating Oil is a high-quality mineral insulating oil produced from carefully selected petroleum lubricating oil fractions through hydrorefining and fractional distillation processes.

Specifically developed for electrical switchgear operating in low-temperature environments, it features an exceptionally low pour point below -60°C and excellent low-temperature fluidity.

With outstanding thermal and oxidation stability, high dielectric breakdown voltage, and a low dielectric dissipation factor, the product provides reliable electrical insulation for compatible oil-filled switchgear operating under cold climatic conditions.

POWERING A SAFER AND MORE RELIABLE TOMORROW

RELIABLE DIELECTRIC PERFORMANCE IN LOW TEMPERATURE ENVIRONMENTS

Low Viscosity
 Excellent Fluidity
 High Dielectric Strength
 Thermal Stability

APPLICATIONS

- Low-Temperature Electrical Switchgear**
Suitable for compatible oil-filled electrical switchgear operating in low-temperature environments.
- Electrical Switching Equipment in Cold Climates**
Designed for equipment requiring excellent low-temperature fluidity and reliable insulation.
- Other Compatible Oil-Filled Switching Devices**
Suitable for various oil-filled electrical switching devices.

PRODUCT OVERVIEW

	Product Type	Low-Temperature Mineral Insulating Oil
	Pour Point	Below -60°C
	Product Grades	0°C / -10°C / -20°C / -30°C / -40°C
	MOQ	3 – 10 Metric Tons
	Order Requirements	Mixed Loading Not Accepted
	Feature	PCB-Free Formulation

TRUSTED ENERGY PARTNER FOR A SUSTAINABLE TOMORROW

AVAILABLE PACKAGING



FLEXIBLE SUPPLY FOR GLOBAL MARKETS

PETRONEXUS

INSULATION SOLUTIONS FOR A MORE RELIABLE GRID

Safety
 Efficiency
 Reliability
 Global Support

CONNECTING ENERGY FOR A BRIGHTER TOMORROW