



Natural Ester Oil-immersed Power Transformers up to 750kV

Environmentally Friendly and Highly Secure Solutions



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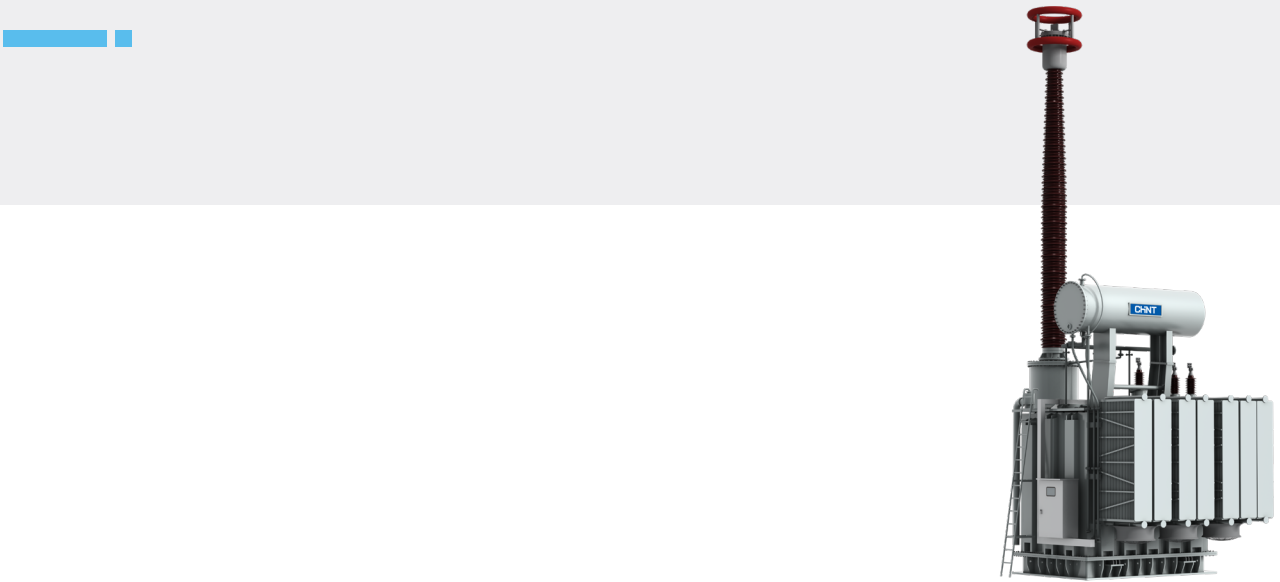
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Natural Ester Oil-immersed Power Transformers up to 750kV

CHINT Natural Ester Vegetable Oil Transformers adopt natural plant-based ester insulating oil, which is fully biodegradable, eco-friendly and pollution-free. Optimized with Chint’s proprietary insulation technology, the transformers feature a well-matched perfect oil-paper insulation structure with superior dielectric performance.

With a flash point above 300° C, the natural ester oil greatly enhances equipment safety and endows the transformer with strong overload capacity, delivering outstanding overall performance. The product is ideal for all application scenarios with strict environmental protection and high safety requirements.



Environmentally Friendly and Highly Secure Solutions

- High safety level with outstanding fire resistance performance
- Eco-friendly raw materials, low carbon emissions
- Extend service life of internal insulation paper

Excellent Comprehensive Performance

- Excellent high-temperature withstand capability
- Reliable waterproof & moisture-proof performance
- Uniform and reasonable internal electric field distribution

Key Specifications

Parameter	750 kV	500kV	220 kV
Rated Voltage	750 / $\sqrt{3}$ / 35 kV	(525/ $\sqrt{3}$)/(230/ $\sqrt{3}$)/66 kV	220 / 20 kV
Cooling Method	KNAN / KNAF	KNAN/KNAF	KNAN / KNAF
Insulation Level			
HV Winding	SI / LI / AC 1550 / 1950 / 900 kV	SI/LI/AC 1175/1550/680 kV	SI / LI / AC 850/1050 /460 kV
MV Winding		LI/AC 950/395 kV	
HV Neutral	LI / AC 200 / 85 kV	LI/AC 325/140 kV	LI / AC 550/230 kV
LV Winding	LI / AC 200 / 85 kV	LI/AC 325/140 kV	LI / AC 125/50 kV
Standards	IEC 60076	IEC 60076	IEC 60076
Energy Efficiency	Tire 2	Tire 2	Tire 2

Application Scenarios

Environmentally protected areas, such as water source protection zones, fishery-solar complementary power stations, forest-solar complementary power stations, and offshore wind farms

Areas with high fire safety requirements, including densely populated zones, underground substations and indoor spaces

Areas with heavy overload transformers and drastically fluctuating loads, such as photovoltaic and wind power projects

Application scenarios with restrictions on transformer overall dimensions

Project References



China | 750kV Natural Ester Transformer Type Tests Successfully Witnessed by Third Party Experts



Colombia | 180 MVA 220 kV Natural Ester Transformer



Australia | 132kV Natural Ester Transformer



Italy | Enel 150kV Natural Ester Transformer