

ESTER OIL TRANSFORMERS



Ester dielectric fluids are a viable natural alternative providing environmental, safety and performance benefits over and above traditional mineral oils.

Formulated from edible seed oils and food grade additives, ester dielectric fluid is biobased, sustainable, renewable and recyclable providing sustainable environmental protections.

Ester dielectric fluids offer strong benefits for transformers in environmentally sensitive locations. In the event of an oil release, natural dielectric fluids quickly and thoroughly biodegrade in the environment and contain no harmful petroleum, halogens, silicones or other questionable materials.

With a high flash point of 330°C they also provide a high level of fire safety compared to a flash point of 145°C for petroleum-based mineral oil.

In asset life terms, the chemical properties of ester dielectric fluids enhance transformer insulation performance and life expectancy, minimising the impact of moisture. As a result, the insulation system can last up to three times longer than in a mineral oil filled transformer.

The fluids are entirely compatible with standard transformer insulating materials, components and with fluid processing equipment and procedures. It has been seen that insulating paper within ester dielectric fluids age at a much slower rate than in conventional transformer oil due to its ability to draw out and absorb retained water.

FEATURES

- Biodegradable
- High flash point of 330°C
- Enhanced insulation performance and life expectancy
- Aging resistivity
- Available in transformers up to 132kV



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