

TRANSFORMERS



4 REASONS TO RETROFILL TRANSFORMERS WITH ESTER FLUIDS

Natural and synthetic esters

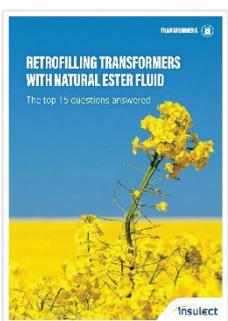
WHY RETROFILL TRANSFORMERS WITH MIDEL NATURAL AND SYNTHETIC ESTER FLUIDS



When retrofilling mineral oil transformers, every situation is unique: from an urgent need on a single asset, to rolling out a network-wide program. Operational factors can also vary considerably such as load, asset design, age, location, and environment.

In many situations, a compelling case can be made for using a natural or synthetic ester fluid. Here are the top 4 reasons for replacing mineral oil with an ester fluid.

 <p>FIRE SAFETY reduced risk through much higher fire point and flash point</p>	<ul style="list-style-type: none"> • There has never been an oil fire reported in the past 40 years in transformers using MIDEL ester fluids. • High Fire Point > 300°C (K Class fluid) • Synthetic ester will self-extinguish when heat source is removed. • No pool fires
 <p>ENVIRONMENTAL PROTECTION minimise impact and facilitate compliance</p>	<ul style="list-style-type: none"> • Readily biodegradability (CIGRE Brochure 436) • Lower clean-up costs compared to mineral oil • Lower environmental impact
 <p>REDUCED SEPARATION DISTANCES AS2067 Compliance</p>	<ul style="list-style-type: none"> • Can allow transformers to be located closer together and next to buildings without the need for blast walls. • Compliance with AS2067 can be met and insurance premiums can potentially be lowered. • MIDEL esters are FM Global approved
 <p>TRANSFORMER LIFE EXTENSION significantly beyond what is possible with mineral oil</p>	<ul style="list-style-type: none"> • MIDEL synthetic and natural esters absorb moisture from the insulating paper. This slows the rate of degradation, hence increasing the transformer life. • They allow transformers to run hotter without any reduction in transformer life. Alternatively they can be run at the same temperature as mineral oil with increased paper life. • MIDEL 7131 synthetic ester is oxygen stable which makes it suitable for free breathing transformers.



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15 Questions on Retrofilling Transformers with Ester Fluids

insulect.com/products/transformers/ester-fluids