



TRANSOL

Transformer Oils

A range of high-quality naphthenic and paraffinic oils, natural and synthetic ester dielectric fluids for transformers

- ↘ Distribution transformers
- ↘ Power transformers
- ↘ Capacitors
- ↘ Switchgears
- ↘ Circuit breakers
- ↘ Welders

- ✓ **Excellent electrical properties**
- ✓ **Outstanding oxidation stability**
- ✓ **Superior heat transfer characteristics**
- ✓ **Low pour points**
- ✓ **Low viscosity**
- ✓ **High flash and fire points**
- ✓ **High moisture tolerance**
- ✓ **Biodegradable**

SIP is proud to partner with Savita, a leading supplier with more than 40 years of experience in dielectric fluids for transformers. Their unparalleled expertise enable us to offer both environmentally friendly alternatives and traditional mineral oils, catering to the diverse needs of our clients. This collaboration reflects our commitment to providing innovative and sustainable solutions in the Energy sector.

TRANSOL oils are specialised insulating oils derived from the distillation of high-quality naphthenic crude oils. Through advanced technologies like high-pressure hydrogenation and hydrotreatment, the oils are meticulously refined to achieve excellent electrical properties, low pour points, cooling

characteristics and remarkable oxidation stability. These properties make them suitable for the most demanding transformer applications.

bioTRANSOL-HF is a natural ester-based dielectric fluid derived from renewable vegetable oils, providing an eco-friendly alternative to conventional mineral oils. It is fully biodegradable according to US EPA OECD 301B standards and is non-toxic to aquatic life. Additionally, bioTRANSOL-HF is UL classified and FM Approved.

TRANSOL *Synth.100* is a synthetic ester dielectric fluid engineered for exceptional durability and longevity in transformer applications. As a K-class fluid, it conforms to the standards specified in IEC 61099 / IS 16081.

TRANSOL GE is a Type B, uninhibited naphthenic insulating oil crafted to meet the specifications outlined in IEC 60296:2020.

TRANSOL GEX is a Type B, inhibited naphthenic insulating oil crafted to meet the specifications outlined in IEC 60296:2020.

TRANSOL HGX is a Type A, inhibited grade of naphthenic transformer oil specifically tailored for demanding applications in EHV and UHV transformers. It provides outstanding oxidation stability, resulting in minimal acid and sludge formation as per IEC 61125 and ASTM D2440 tests. Additionally, it boasts excellent dielectric strength, resistivity, and dissipation factor. The low pour point and low viscosity characteristics of the product enable excellent cooling properties.

TRANSOL range of oils are completely free from PCBs, DBDS, passivators, and metal deactivators, ensuring superior purity.



bioTRANSOL-HF is a high-performance dielectric fluid that surpasses conventional mineral-based oils with its advanced features. It is classified under the K-class for its high flash and fire points (>320°C and >300°C respectively). These characteristics ensure greater safety for personnel during installation, maintenance and condition monitoring and make bioTRANSOL-HF the ideal choice for applications that necessitate high fire safety and environmental protection in case of accidents or spillages.

bioTRANSOL-HF enhances transformer performance by promoting faster moisture extraction from paper insulation while maintaining breakdown voltage (BDV). It extends the life of solid insulation materials, slowing the aging process of transformers and consequently delaying asset replacement and capital expenditures. bioTRANSOL-HF increases transformer load capacity due to reduced paper aging, reduces maintenance time, insurance premiums, clean-up costs, and fluid consumption compared to traditional oils.

bioTRANSOL-HF is expertly designed from entirely renewable resources, making it completely biodegradable and contributing to a reduced carbon footprint. Its eco-friendly formulation is safe for both the environment and aquatic life.



TRANSOL Synth.100 has superior moisture tolerance that significantly extends the lifespan of cellulose paper insulation. This high moisture tolerance, along with the improved paper longevity provided by TRANSOL Synth.100, allows for higher transformer loading and the potential to reduce transformer size. Its outstanding oxidative stability allows for the flexible design and operation of transformers, whether they are equipped with free-breathing systems or not.

TRANSOL Synth.100 is the ideal solution for transformer installations in cold climates, thanks to its remarkably low pour point of -57°C. This exceptional characteristic ensures optimal performance even in extreme sub-zero temperatures.

TRANSOL Synth.100 is readily biodegradable, minimising environmental harm. Consequently, the costs associated with handling and cleanup in the event of accidental spills are significantly lower than those for mineral oils or silicone fluids.

With its high fire point, TRANSOL Synth.100 significantly reduces the risk of fire accidents resulting from transformer faults during operation. This makes TRANSOL Synth-filled transformers a highly viable alternative to those filled with mineral oil or those of the dry type.



SIP SPECIALITY OILS AND FLUIDS

For more than 35 years SIP Speciality Oils and Fluids has been a respected and recognised independent marketer and distributor. Based in London, we have been supplying customers in Europe and the wider African and Middle Eastern markets for many years. SIP has one of the most comprehensive product portfolios, covering a wide range of base fluids for many product applications. We are especially known for our extensive range of viscosity grades

of mineral white oils with Halal, Kosher and Vegan approvals, and our premium oils for industrial and drilling applications. We manage our own vessel and road tanker operations in-house, based around our storage hubs in North West Europe and the UK. We pride ourselves on our ability to deliver where our competitors cannot by giving you tight lead times, support for unusual viscosity grades, and our own experienced in-house technical services and operations team who offer a bespoke service.



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