

P.LEO's Electrical Insulation System

P.LEO Electrical Insulation System (EIS) OBJS2 is composed of a unique combination of materials that have been verified for chemical compatibility when used at certain maximum temperatures. These combinations are arranged to form insulation systems such as those used in motors, transformers, solenoids, etc.



Long Term Thermal Aging (LTTA) testing is designed to monitor degradation of the insulation system. It involves the proposed EIS at three or more elevated temperatures with intermittent dielectric proof testing. After each heat cycle, samples are also subjected to repeated series of environmental exposures, such as mechanical stress, cold shock, and humidity. The performance of the proposed (candidate) EIS is compared to a control EIS with previously established rating.

After completion of a long term thermal aging program, manufacturers may wish to add new minor components to the EIS. Such components include fastening tapes, tie cords, balancing compounds, tubing, lead wires etc. **Sealed Tube test (CCT)** is conducted to quickly determine if the gaseous degradation by-products of these materials are detrimental to the performance of the EIS' major components.

P.Leo's existing 37 insulation systems range widely from **Class B (130°C)** to **Class S (240°C)** <http://www.hk.pleo.com/OBJS2/OBJS2.htm> while the major components include most major triple insulated wire, Litz wire, P. Leo's fully insulated wire and different types of **ground and Interwinding materials**, plastic bobbin materials and **P.Leo electrical tapes** and famous brands films e.g. Kapton® film, PPS film, Nomex® Paper, PEN film etc. For minor components different kinds of composite paper e.g. NMN, Press board paper, PET film etc. varnish from Elantas, PTFE tube and silicone rubber sleeving, Electrical Tape and Mica sheet from P.Leo etc, have been adopted in the system. All these combinations provide enough room for transformer manufacturers to locate the suitable system for their tailor-made products.

P.Leo warmly welcomes any interested customer to adopt the suitable system for his **OBJY2** UL file. The process of applying can be followed in this effective way.

After contacting P. Leo, transformer, motor and other manufacturers will choose right temperature class (**Class B to class S**) you need, select the insulation system suitable for your products according to the system materials list, and then list the relevant information of your company to P. Leo. P.Leo will issue a letter of authorization to your company at the first time, and your company can submit the application and letter of authorization to UL to complete **OBJY2** certification.

Remark: Kapton®, Nomex® are registered trademarks for DuPont.



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