

Electric Transformers

Fabrico is the leading provider of electrical insulation material products used to manufacture and repair electric transformers. From core and barrier insulation to layer and magnet wire insulation, Fabrico offers more than 30 years of experience in a variety of applications.

Our finished products are fabricated from a wide variety of tapes, films, papers, and laminates supplied by market leaders such as DuPont™, 3M™, Permacel®, and Von Roll®. Products are provided to customers in various forms, including sheets, slit rolls, traverse-wound spools, and fabricated parts.

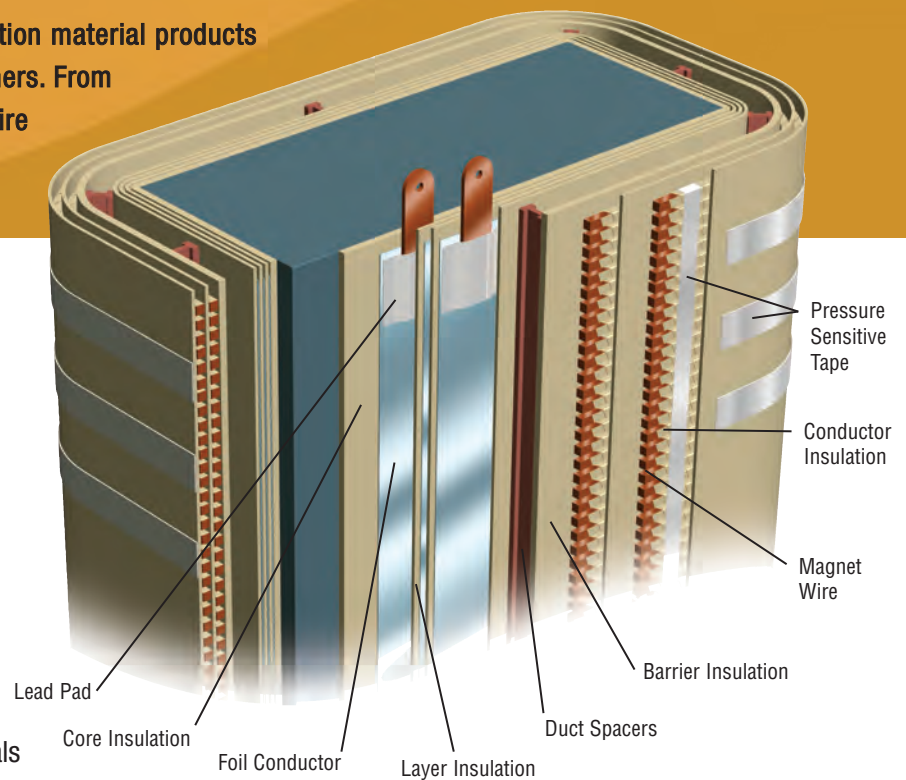
Products for electric transformers include:

Core insulation. The primary insulating material between transformer coils and the magnetic steel, core insulation is made of relatively thick insulating films, papers, or laminates. Fabrico slits these materials to specified dimensions and can also provide product in sheet form.

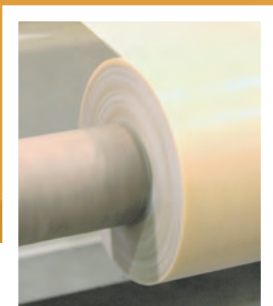
Lead pads. Made of pressure-sensitive tapes, flexible films, papers, and laminates, these pads serve as additional electrical insulation for the lead and tap connections. Fabrico provides material for lead pads as sheets, slit rolls, and fabricated parts.

Layer insulation. This insulation is placed between individual conductor windings in transformers. Fabrico provides slit rolls in specific lengths and sheets from many different flexible insulating films, papers, and laminates.

Barrier insulation. The primary insulating material between high- and low-voltage coils, barrier insulation is made of various flexible films, papers, and laminates. Fabrico converts these materials into sheets, slit rolls, and fabricated parts.



FABRICO™
A DIVISION OF EIS



Magnet wire insulation. Paper wrapped magnet wire conductor is used in certain types of transformers. Fabrico provides slit rolls of various insulating papers in traverse-wound spools suitable for wire wrapping equipment.

Pressure-sensitive tapes. In transformer manufacturing, these tapes are used to hold components in place during the manufacturing process, as well as to provide additional electrical insulation. Fabrico slits a wide variety of pressure-sensitive tapes to customer-specified widths and also provides custom die-punched parts for discreet applications.

EIS offers a variety of other transformer components, including:

Core tubes. Made of rigid insulating materials, these rectangular tubes are suitable for relatively large transformers. EIS sells core tubes that are pre-manufactured to the customer's specified length.

Foil conductors. Copper and aluminum foils are used as conductors in transformer coils, as well as EMI/RFI and electrostatic shields. Fabrico manufactures custom shields using a variety of insulating tapes, films, and papers to customer specifications. EIS sells custom slit foil conductors from several industry-recognized sources.

Duct spacers. These components are solid rods or bars used as spacers between transformer windings in order to allow cooling air or liquid to flow through the transformer. Duct spacers are made of rigid electrical insulating materials, such as thermoset polyester-glass composites. EIS sells duct spacers in several shapes and sizes supplied in bulk lengths or cut to specified lengths.

Magnet wire. Copper or aluminum wire that makes up the transformer coil. The choice of magnet wire and lead wire

depends on a number of factors, including the necessary dielectric strength and temperature resistance, the transformer's environment, and the size needed to carry the amount of electrical current required by the application. EIS sells a full line of magnet wire in all insulations, shapes, and sizes.

Woven cloth tapes. EIS supplies many types of coated and non-coated woven cloth tapes used in a variety of holding, insulating, and overwrapping applications in transformer coils. Non-coated woven tapes readily absorb varnish, which helps create a rigid coil structure. Coated cloth tapes are used as both primary and secondary insulation, and are available in a wide variety of constructions.

Lead wire. Insulated flexible conductors used to connect transformers to their power source or output destination. Also known as hookup wire, EIS supplies UL-rated lead wire in a wide variety of sizes, constructions, and insulations. Bulk lead wire is available in standard factory packaging. Custom packaging, lead wire sets, and kitting are all available through Fabrico.

Electrical sleeving and tubing. Provides insulation for electrical connections and additional protection to critical areas where conductors can experience mechanical or electrical stress. EIS offers a full line of electrical sleeving and tubing from industry leading manufacturers in bulk packaging and cut-to-length pieces.

Resins and varnishes. Used to coat and impregnate the transformer steel and coil assemblies. Provides a rigid coil construction and adds additional electrical and environmental protection to the coils and steel laminations. EIS supplies varnishes and resins from all major US manufacturers for every type of coating, impregnating, and curing requirement.



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