

Senapathy Symons Insulating Materials



**SENAPATHY
SYMONS**

Company Profile

Senapathy Symons Insulations Pvt.Ltd. has, since its inception in 1970, been a trail-blazer in India in the highly specialised field of electrical insulation systems. It has kept pace with the growth of the power sector on generation, transmission and distribution and the changing needs of the equipments and the Industry for Flexible Insulation materials.

The Company manufactures a range of Electrical Insulating Materials to meet the requirement of various Thermal Indices (105°, 120°, 130°, 155°, 180° and 220°C) in the form of both Composite Materials and Varnished Fabrics used in Low, Medium and High Voltage Rotating Machines.

Composite Insulation materials are available in the form of:

- SYLAX Class 'E' Polyester with Presspaper
- SYLAX Class 'B' Polyester Film sandwiched between two layers of Presspaper
- SYLAX class 'F' 2 layers- Polyester with Aramid (Nomex) Paper.
- SYLAX Class 'F' 3 layers 2 layers of Nomex* with an interleaf of Polyester film
- SYLAX Class 'H' 2 layers of Nomex* with Kapton in between

Varnished Fabrics are in different combinations using various substrates like Cotton, Nylon, Silk, Polyester and Glass Fabrics treated with Glyptal, Alkyd, Isophthalate Epoxy and Silicon Varnishes.

Further the Company also manufactures 'B' Stage Epoxy Impregnated Glass and 'B' Stage Epoxy Impregnated Nomex Paper tailor-made to customer specifications.

Senapathy Symons has developed 'SYMODOOT' Epoxy Diamond Dotted Paper for coil winding applications in Transformer and 'SYMAL' Aluminium Foil backed Insulating Paper for use in Cable-jointing kit to prevent moisture ingress.

The Company thus has the experience and expertise to take on challenging and demanding tasks and assignments and to deal with the emerging changes in the patterns of demand and technological evolutions.

*Trade Mark of DuPont of USA and material obtained from them.



MULTILAYER COMPOSITES TO IEC 60626-2

SINo	Product Catalogue	Backing Material			T.I	Application
		Layer I	Layer II	Layer III		
1	SL / CAT / 01	Press Paper	Polyester Film	Press Paper	130	Slot insulation phase & inter layer insulation in motors
2	SL / CAT / 02	Press Paper	Press Paper	—	105	Core insulation, interlayer insulation
3	SL / CAT / 12	Aramid paper	Polyester Film	Aramid paper	155	Phase insulation of dc, ac, traction machines as class "F" insulation
4	SL / CAT / 16	Polyester fleece	Polyester Film	Polyester fleece	130	Slot liners, phase barriers
5	SL / CAT / 17	Nomex Paper	Kapton film	Nomex Paper	180	Slot insulation in dc machines as class 'H' insulation

VARNISHED FABRICS TO IEC 60394

SINo	Product Catalogue	Varnish/ Resin	Base material	T.I	Application
1	SL / CAT / 04	Alkyd Varnish	Cotton Cloth	105	Cable insulation, conductors bus bars wrappings, coil corners
2	SL / CAT / 05	Isophthalate Varnish	Glass Cloth	130	Cable tapping, end winding dry type transformer, H.T coil windings
3	SL / CAT / 06	Alkyd Varnish	Slik Cloth	120	Small coil wrappings, ignition coil
4	SL / CAT / 07	Alkyd Varnish	Nylon Cloth	120	Current transformers, bolted bus bars joints, machine connection
5	SL / CAT / 08	Isophthalate Varnish	Polyester cloth	155	Phase barrier, inter coil insulation etc.

DIAMOND DOTTED PAPER TO IEC 60641-2 & IEC 60554-3-5

SINo	Product Catalogue	Base material paper	Resin	Application
1	SL / CAT / 03	Press paper / Kraft paper	Epoxy	Used as insulation between layer of oil immersed power & distribution transformers

PREPREG ["B" STAGE] TO IEC 60371-2

SINo	Product Catalogue	Base materia	Resin	Application
1	SL / CAT / 09	Glass Cloth	Epoxy	For various pressed parts for rotors & armatures
2	SL / CAT / 10	Aramid paper	Epoxy	Interlayer insulation of field coils
3	SL / CAT / 15	Polyester Fleece	Epoxy	Stack consolidation of coils

INSULATION PRODUCT

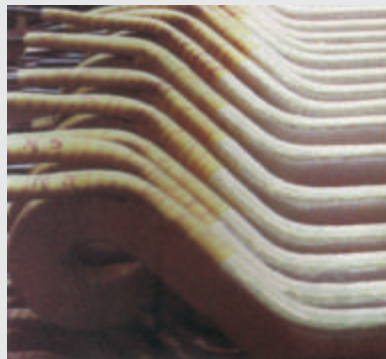
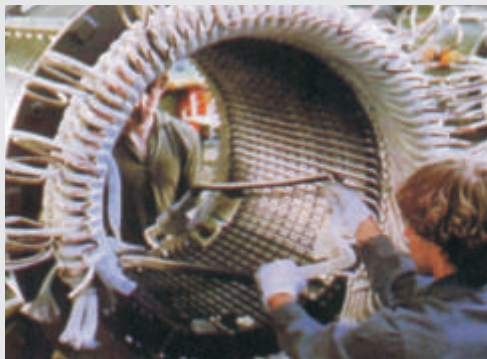
SINo	Product Catalogue	Base material	Resin	Application
1	SL / CAT / 14	Glass Cloth	Epoxy	Used for winding insulation in TG
2	SL / CAT / 18	Nomex / Glass Fleece	Epoxy	- do -
3	SL / CAT / 19	Glass Fleece / Cured Laminate	Epoxy	- do -

INSULATION MATERIAL FOR CABLE

SINo	Product Catalogue	Base material	Resin	Application
1	SL / CAT / 13	Aluminium foil, polyester film & press paper	Polyurethane	Used in cable industry for screening the cable

INSULATION PAPER

SINo	Product Catalogue	Base material	Resin	Application
1	SL / CAT / 11	Kraft insulating paper	Alkyd Varnish	Suitable for inter layer insulation, commutator packing etc.



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