A.A. SHA IMPEX AND EXPORTS

HOUSE OF ELECTRICAL INSULATION

A.A. SHA GROUP OF COMPANIES

SINCE - 1972

Your search for the reliable ***QUALITY*** *Insulation* ***STARTS HERE !!.*** ™


A A Sha Impex and Exports
Chennai

- Polyester Films
- Leathearoid Paper
- Nomex Paper
- Garlam Paper
- Fibre Glass Tap & Cloth
- Fibre Glass Wire
- Fibre Glass Sleeve
- Rubber Compound Tape
- Rayon Thread
- Epoxy Sheet / Wedges
- Pressphan Paper
- Fire Reatardant Sleeve
- Aramid Sheet
- Coated Films

..... and more.

Welcome to

A A SHA IMPEX AND EXPORTS

Trusted Insulation Partners Since 1972

- A A SHA IMPEX AND EXPORTS, quality isn't just a promise — it's the foundation we've built our business on since 1972. Based at Chennai, India.

- We work as Importers, Distributors and Stockist of electrical insulation materials, carefully sourcing only the best products from trusted global manufacturers.

- For us, insulation materials are not just commodities. They protect motors, transformers and machines that power industries — and we take that responsibility seriously. That's why every product we supply, whether Polyester Film, Class F & H insulation, Kraft Paper, Aramid fire-retardant paper, FPF/DMD laminates, Silicon-coated films and papers or PU Coated Fiber Glass Sleeves, is chosen with one clear goal in mind: **QUALITY**.

- Over the decades, we've built strong relationships with both suppliers and customers — relationships based on honesty, performance and trust.

- Many of our customers have been with us for **DECADES**, because they know we stand behind what we supply. We make sure the right material reaches you at the right time, without compromise.

ABOUT US

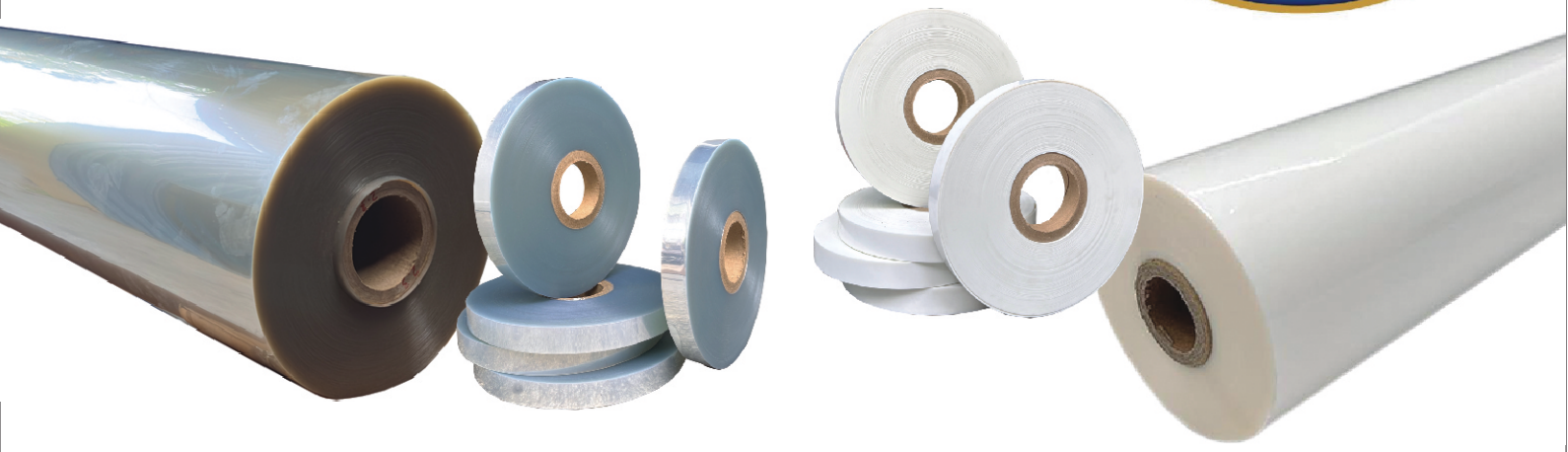
- Today, we are proud to serve a large base of loyal customers — many of whom have been working with us for decades. Their continued trust in us is the biggest reflection of our commitment to quality and customer satisfaction.

- As a quality-focused company, we place great importance on the reliability and performance of every insulation material we supply. We are known for our attention to detail and insistence on delivering only the finest-quality products — because we believe our customers deserve nothing less.

- We also understand how critical timely supply is to our customers' operations. To support this, we maintain a strong and efficient supply network across the states, ensuring that even bulk requirements are fulfilled quickly and smoothly.

- Our position in the market has been built over the years through dedication, careful planning, uncompromising quality systems and a genuine focus on customer service. We are also proud to be associated with some of the leading global brands in the insulation industry, including M/s. JBF RAK LLC (UAE), M/s. Elantas Beck India Ltd., M/s. Gujarat Polymers, M/s. Mithra Fiber Glass Sleeve further strengthening the value we offer to our customers.

POLYESTER FILM



- Polyester film is an ideal material for slot liners, slot closures, and interphase insulation in electric motors and generators, offering a high level of safety and reliability. It is specially designed for use in motors, fans, generators, and transformers, as well as in a wide range of electrical and electronic components.

- Polyester film is extensively used for cable wrapping, copper insulation, packaging, lamination, stationery products, overhead sheets, window packing, FRP sheets, stickers, labels, and many other multipurpose industrial and commercial applications

TECHNICAL ADVANTAGES

Insulation Resistance : The film offers excellent electrical properties, with very high insulation resistance and extremely low moisture absorption. It is ideally suited for use as slot liner insulation in both F.H.P. and H.P. motors across a wide range of rotating electrical machines.

Toughness : The material is highly durable and does not crack or split even when sharply creased. It can be easily formed into cuffed slot liners and closures using semi-automatic machines and performs efficiently in fully automatic forming and inserting systems.

Ageing : Performance Accelerated ageing tests conducted at high temperatures show that this film has a longer service life compared to standard polyester film grades.

Chemical Compatibility : It is compatible with most impregnating varnishes, particularly those based on polyester resins of the terephthalate or isophthalate type.

Brittleness Resistance : The film remains flexible even at very low temperatures — it can be used safely down to -70°C without becoming brittle.

AAEROTHERM®/ (APA) Class F Insulation Material

AAEROTHERM®

INSULATION CLASS F (155°C)

- The quality of electrical insulation is critical to the performance and lifespan of motors, generators, and other rotating electrical equipment.
- This three-layer insulation combines a polyester film laminated on both sides with N-ARAMID paper using high-temperature adhesives. Designed for Class F electrical machines, it offers excellent thermal stability, strong mechanical and electrical properties, and high resistance to chemicals, solvents, and hydrolysis—making it a reliable insulation solution.

TECHNICAL ADVANTAGES

AAEROTHERM® Laminates (155°C)* Excellent resistance to chemicals and solvents* Suitable for automatic insertion processes* High dielectric strength* Protection against hydrolysis* High thermal resistance* Strong mechanical durability

Thickness Range : 0.18mm to 0.45mmRoll Weight: 25 & 50 KgsWidth of Rolls: 905mm + 5mmAlso available in tape form, 10mm width to any width as required by the customer, width accuracy + 0.1mm

Product Name	Composite	Application
AAEROTHERM®	**N-ARAMID + Polyester Film + N-ARAMID**	**Motors & Generators:** Used for slot insulation, slot closures, phase insulation, interlayer insulation, and core insulation. **Transformers :** Suitable for layer insulation, core insulation, cover insulation, and conductor insulation. **Choke Coils :** Used for insulating conductors and formed insulating components.

ARAMID YT-410

ARAMID YT-410 Paper is manufactured from 100% pure aramid fibres (MPIA and PPTA) and is designed for high-performance electrical Insulation applications.

Features & Benefits

- Calendared paper with excellent mechanical and dielectric strength
- High flexibility and resilience, ensuring easy forming and handling
- Superior resistance to high temperatures and short-term thermal overloading
- Inherent flame resistance
- Outstanding electrical insulation performance
- Widely used in transformers, motors, and generators, for inter-turn insulation, inter-layer insulation, and end insulation

Technical Details

Available in thickness options, ranging from 2 mil to 30 mil (0.05 mm to 0.76 mm)
Supplied in Rolls, Sheets, Strips, Design Punch.

100% pure ARAMID
Fire Retardant
220° C Temperature Class

NOMEX

GARLAM SHEET-Presspahn+Polyester Film

VELSONS INDUSTRIAL GRADE INSULATION CLASS "B" GARLAM®

- GARLAM® – Industrial Quality is a high-performance composite material made from premium-grade insulating paper and polyester film. It is specially developed for use in the manufacturing of electric motors, generators, and fans, with a maximum continuous operating temperature of 130°C.
- GARLAM® is produced using a high-temperature resistant adhesive that permanently bonds the insulating paper and polyester film, ensuring excellent thermal stability, durability, and long service life under electrical and mechanical stress.

ORIGINAL MADE IN GERMAN PAPER

INDUSTRIAL QUALITY INSULATION CLASS B GARFLEX®

- GAR-FLEX® – Commercial Quality is a composite electrical insulation material made from good-quality insulating paper and polyester film. It is designed for use in electric motors, generators, and fans, with a maximum continuous operating temperature of 130°C.
- GAR-FLEX® is manufactured using a heat-resistant adhesive system that firmly bonds the insulating paper to the polyester film. This construction provides reliable thermal stability, adequate mechanical strength, and consistent performance under normal electrical and mechanical operating conditions.

FLEXIBLE LAMINATES DMD Class F/FPF

Dacron / Mylar / Dacron

- DMD-F Class is a three-layer flexible insulation material made from a high-melting-point polyester film laminated with polyester non-woven fabric using Class F heat-resistant adhesive.
- The material offers very good impregnation properties, making it highly reliable for long-term use in F-Class electrical machines.
- It is widely used for slot insulation, inter-phase insulation, and liner insulation in electric motors and other electrical equipment.

Key Features & Applications :

- Temperature Class: F (155°C)
- High mechanical strength with excellent electrical insulation properties
- Good impregnation and bonding performance
- Suitable for slot, inter-phase, and liner insulation
- Used in F-Class electric motors and electrical apparatus.

Availability :

- Forms: Roll, Sheet, Strip
- Colours: Pink & Blue

INSULATING KRAFT PAPER

Class A (105°C)

- Kraft Insulating Paper is a high-quality electrical insulation material manufactured from premium wood pulp, offering reliable electrical, mechanical, and thermal performance. It is widely used in the insulation of transformers, motors, generators, and other electrical equipment where consistent quality and durability are essential.
- Known for its good dielectric strength and mechanical toughness, Kraft paper performs well under oil impregnation and provides long service life in electrical applications.

Key Features & Applications

- Good electrical insulation and dielectric strength
- Suitable for oil-impregnated applications
- Used for layer insulation, inter-winding insulation, core and cover insulation
- Commonly applied in transformers, motors, generators, and electrical apparatus

Availability

- Forms: Roll, Sheet, Strip
- Grades & GSM: Available as per requirement

MITHRA® Class F
(PU COATED FIBRE GLASS)

- MITHRA® (PU Coated Fiberglass Sleeves) are flexible insulating sleeves made from high-quality fiberglass yarn and uniformly coated with polyurethane (PU). This coating enhances abrasion resistance, flexibility, and dielectric strength, while also protecting the sleeve from moisture, oils, and mechanical damage.
- These sleeves provide reliable electrical insulation and mechanical protection for conductors, leads, and cables, especially in applications where vibration, heat, and continuous operation are involved.

FIRE-RETARDANT®
FIRE-RETARDANT FIBER GLASS SLEEVE

- Fire-Retardant Silicone Coated Fiberglass Sleeves are manufactured using high-quality fiberglass yarn coated with flame-retardant silicone rubber.
- This construction provides excellent thermal insulation, superior flexibility, and reliable protection against fire, heat, and electrical stress.

Class H

SILICONE FIBER GLASS SLEEVES

Silicone Fiberglass Sleeves are manufactured from high-quality fiberglass yarn and coated with premium-grade silicone.

The silicone coating protects the fiberglass braid from moisture, oils, chemicals, and abrasion, while also providing self-extinguishing properties.

Applications

- Lead wire insulation in motors and transformers.
- Cable protection in generators and heaters.
- Insulation for terminal connections and bus bars

FIBER GLASS SLEEVES

Fiberglass Sleeves are manufactured from high-quality glass fiber yarn braided into a tubular form to provide dependable electrical insulation and mechanical protection. They are widely used in applications requiring thermal resistance, abrasion protection, and electrical safety.

Key Features

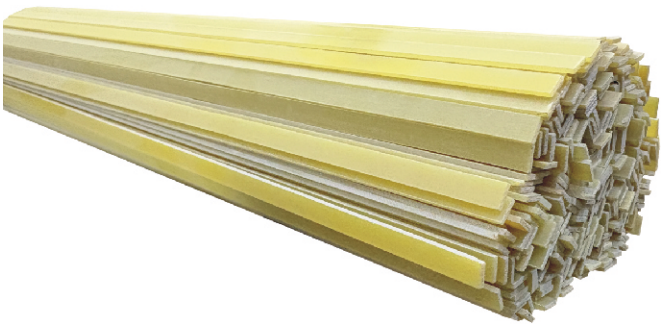
- Good temperature resistance
- Excellent electrical insulation properties
- Flexible and easy to install

FIBERGLASS WIRE (TINNED COPPER)

Fiberglass Wire (Tinned Copper) is manufactured using high-conductivity tinned copper conductor insulated with premium-quality fiberglass braid.

The tinned copper conductor ensures excellent electrical conductivity and enhanced corrosion resistance, while the fiberglass insulation provides good thermal stability, reliable dielectric strength.

EPOXY INSULATION SHEET / WEDGES



Epoxy Sheets are manufactured from high-quality glass fabric impregnated with epoxy resin and cured under controlled heat and pressure.

Epoxy Slot Wedges are precision-machined components made from epoxy glass laminate sheets. They are used to securely hold stator windings in place and provide reliable mechanical support and electrical insulation in electric motors and generators.

Applications :

- Electrical insulation in motors and transformers
- Switchgear and panel insulation
- Structural and insulating components
- Stator slot locking in electric motors
- Winding support and insulation systems

INSULATING VARNISH

A-SEAL™

ELANTAS

Electrical Insulating Varnish is a specially formulated coating used to improve the electrical, thermal, and mechanical performance of windings and insulation systems in electrical equipment. It is designed to penetrate and bond with insulating materials, providing enhanced protection and longer service life.

RUBBER COMPOUND TAPE

OMEGA®

Rubber Compound Tape is a self-fusing, highly flexible insulation tape made from premium rubber-based compound. It is used to provide reliable electrical insulation, moisture sealing, and mechanical protection in electrical and industrial applications.

A - SEAL™

RAYON THREAD

Rayon Thread is a strong and flexible thread used for binding and lacing motor and transformer coils.

POLYESTER TAPE

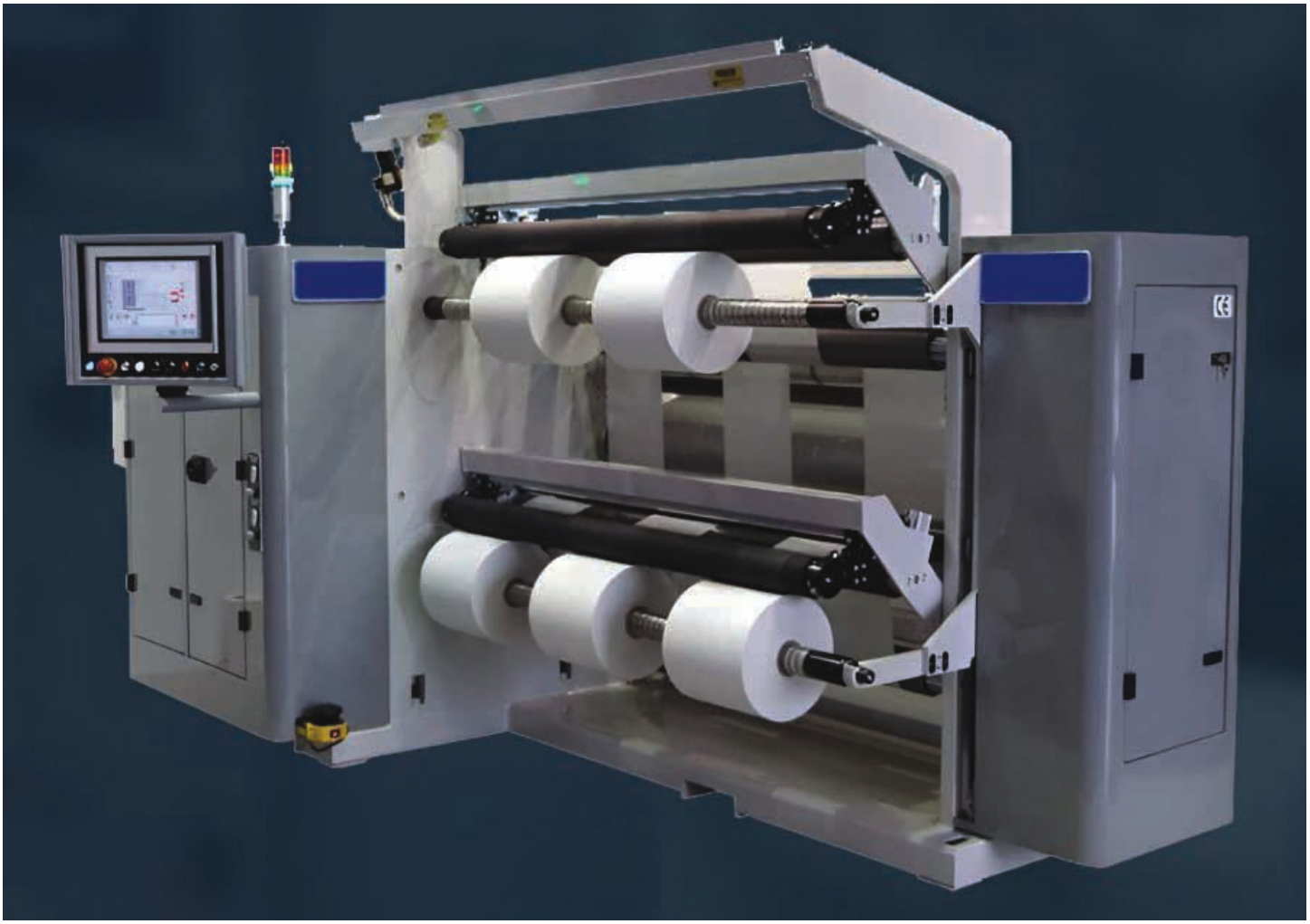
Polyester Tape is a heat-resistant electrical insulation tape used for wrapping and securing motor and transformer windings.

PINK RAYON TAPE

Pink Adhesive Rayon Tape is a flexible, varnish-compatible insulation tape used for wrapping and securing motor and transformer windings.

Super Fine COTTON TAPE

Super Fine Cotton Tape is a soft and flexible insulation tape used for binding and wrapping motor and transformer windings.



A A Sha Impex and Exports provides precision slitting, roll-to-sheet cutting, punching, and custom shaping services tailored to customer requirements. We are equipped with advanced technology to deliver accurate dimensions and exact size with the help of German Technology.

Our experienced technicians ensure products meet industry standards for design accuracy, dimensional consistency, pressure rating, marking, and strict quality control.

We focus on delivering high-quality finished products while reducing material wastage and maximizing operational efficiency.

Slitting services for:

- Films
- BOPP/LDPE
- Foils

All kinds of papers can be slitted in multi sizes width starting from 5mm as per customer requirements.