

COMPLETE INSULATING
SOLUTION, DEVELOPED BY
RESIN RICH &
VPI TECHNOLOGY



MICA RIGID
PAPER SHEETS
MUSCOVITE
PAPER TUBES
MICA FLEXIBLE
PAPER SHEETS



MICANITE CONES
MICA WASHERS
MICA SHIELDS
MICANITE
BUSHINGS & CAPS
MICA POLY ROLLS
PHLOGOPITE MICA PRODUCTS

MICANITE TUBES
MICRONIZED MICA POWDER
POLY MICA POLY
COMBI MICA PAPER TAPES
PAPER GLASS FIBER



HS CODE : 25.25 & 68.14



MICAMAFCO
EXCELLENCE IN MICA SINCE 1885

“ Profile, business model, core business, sites... all the key information about Micamafco, the world’s pioneer leader in Insulation specialties for industry since 1885.”

The world leader in Mica-based specialties for industry, Micamafco designs high-performance products from Mica minerals that it mines and converts using sophisticated technical processes. These Specialties deliver essential features to its customers’ products and Manufacturing processes. The Group’s strengths ensure a level of Operating profitability and a competitive advantage over the long term, in the Global Market.

A benchmark industrial player in mineral-based specialty products, Micamafco designs solutions that meet the requirements of four types of use:

- 1** Minerals & Fillers
- 2** Thermal Insulation
- 3** Electrical Applications
- 4** Fashion

GLOBAL PRESENCE

Active in 82 countries, Micamafco has spread its wings across all continents and the client mix comprises of industry leaders in multiple business verticals.

North America : Canada, USA

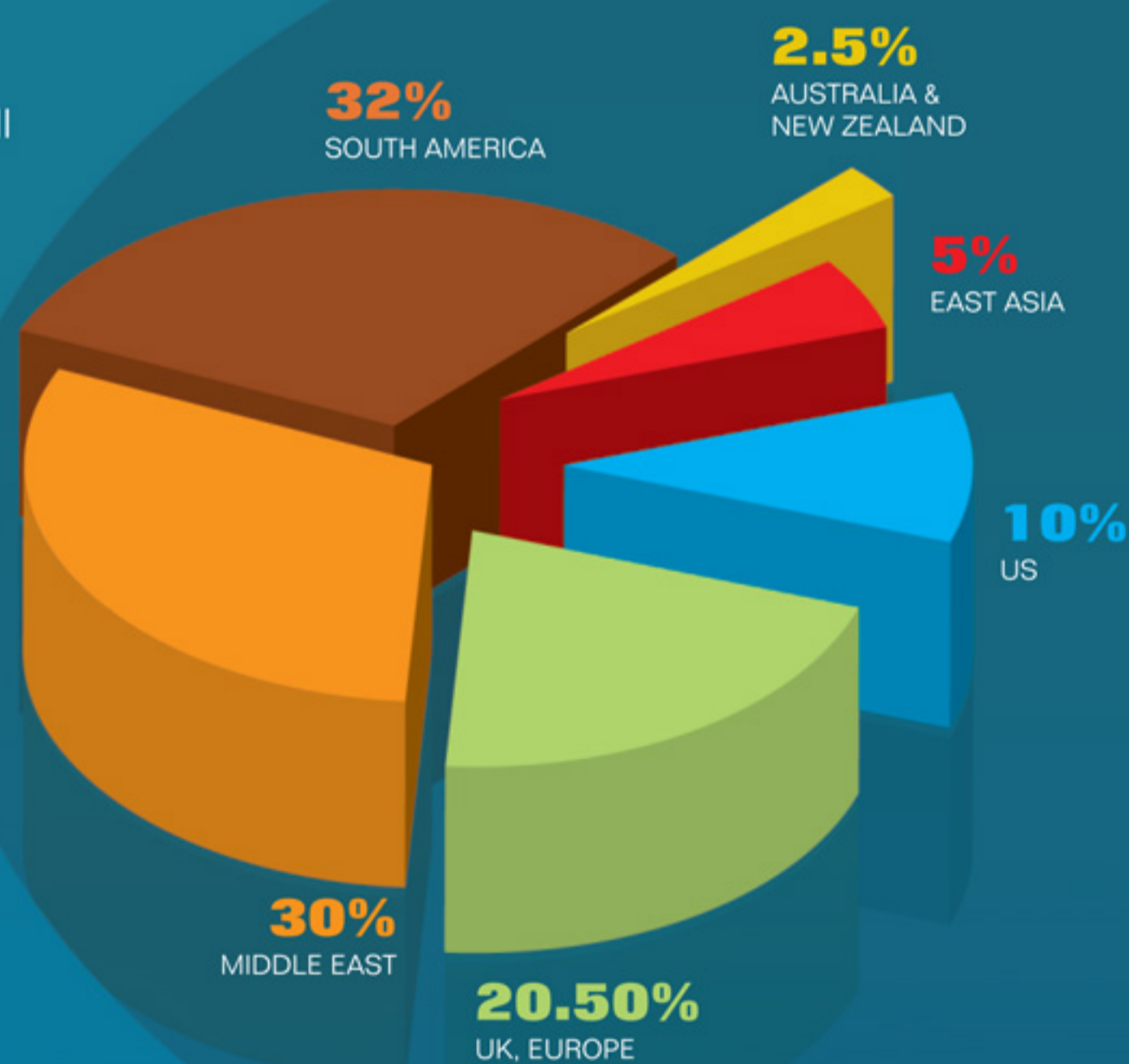
South America : Argentina, Brazil, Chile, Mexico, Peru, Venezuela

Europe : Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Italy, Luxembourg, the Netherlands, Poland, Portugal, Romania, Russia, Slovenia, Spain, Sweden, Switzerland, Ukraine, United Kingdom

Africa : Algeria, Egypt, South Africa, Tunisia, Zimbabwe

Middle East : Bahrain, Turkey, United Arab Emirates

Asia & Oceania : Australia, China, India, Indonesia Japan, Malaysia, New Zealand, Singapore, South Korea, Taiwan, Thailand, Vietnam



THE GROUP’S STRENGTHS

Micamafco has sound strengths that enable it to achieve its strategic ambitions:

High Value-added Positioning

Micamafco specialties are formulated to meet technical specifications that are defined for each customer and application, unlike commodities. Micamafco prices, therefore, are set in two-way negotiations, based on the functions and services provided.

High-quality, Long-term Mineral Assets

Whenever relevant, upstream integration of a mineral resource enables the Group to secure supply quality and to guarantee prices. Micamafco has a broad range of minerals, is constantly enhancing its resources and holds on average 20 years’ reserves to ensure its long-term future.

Operational Excellence & Technological Know-how

Micamafco has industrial assets and manufacturing techniques that are designed in-house in many cases and are optimized with reference to performance indicators.

Broad, Diverse Presence by Both Geography & Sector

Micamafco has bases in 50 countries on five continents. It serves a wide range of geographic and sectorial markets, which reduces its exposure to economic cycles.

Reactive, Decentralized Organization

This enables the Group to be flexible and to adapt swiftly to changes in market conditions.

THINK INSULATION, THINK MICAMAFCO

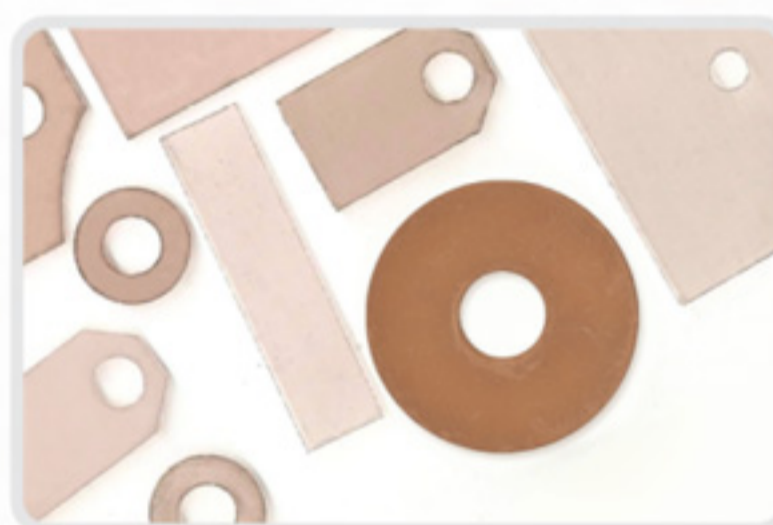
Micamafco offers a wide range of Hi-Tech Muscovite, Phlogopite, Fluro-phlogopite, Biotite Mica & Mikanit Products.

PROCESSED & FABRICATED MICA

Natural Sheet Mica of irregular size and polygonal shapes that is relatively flat and free from physical defects. It is available in Light Green and Ruby color. It is suitable to be split, cut, punched or stamped in specified size and shape. The natural Trimming and Grading as per ASTM, BSS, DIN, GOST, ISI, IEC, ISO & NEMA specifications.



Muscovite & Phlogopite Mica



Mica Insulators

PROCESSED MICA

Mica Blocks, Mica Book Form
Splitting, Mica Films, Mica Sheets

FABRICATED MICA

Mica Shields for Liquid Level gauges, Mica Discs, Mica Washers, Cut Mica Parts, Cut Films, Cut Strips, Spacers, Mica Insulators, Mica Tubes

MICANITE OR BUILD-UP MICA

(Combi with Fiber Glass Cloth, Poly Film, Mylar, Ceramic Film, Kapton & Nomex)
Suitable for Class B, F & H Insulation



Micanite V-Rings & Cones

Micamafco manufactures 100% Natural Mica Products made from Resin Rich Technology using Natural Mica Splitting arranged and assembled into composites shapes such as Sheets, Tubes, Rings, and Tapes. Organic and Inorganic Binders are used which have high "H" Class and "F" Class, thermal and Electrical properties. Some Binders Resins used are Epoxy, Silicone, Alkyd Vinyl, Polyester and Shellac.

- Micanite Sheets
- Hot Moulding Micanite Sheets
- Combi Micanite Sheets or Rolls
- Nomex Mica Nomex
- Micanite Cones

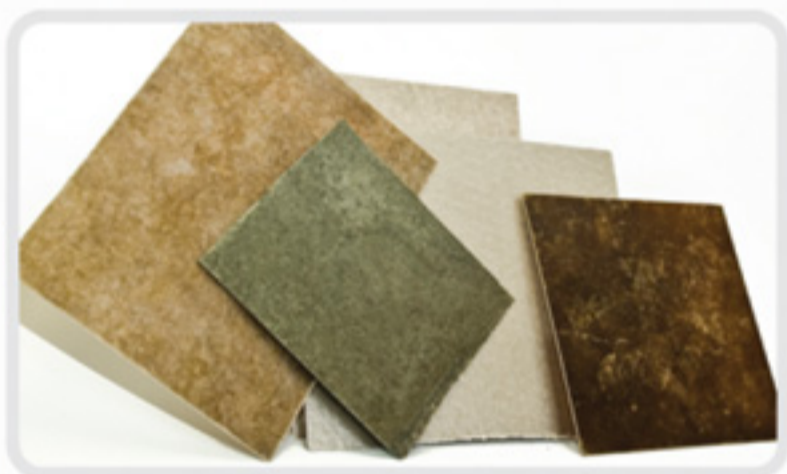
- Micanite Washers
- Micanite Segments
- Micanite Bushings & Caps
- Micanite Tubes
- Micanite V-Rings for Traction Motor & Commutator

MICA PAPER OR RECONSTITUTED MICA

Suitable for Thermal, Electrical & Mechanical Applications

The mechanical characteristics of Micamafco papers need to be reinforced before they can be used in industrial applications. This is done either by impregnating them with a binding agent or by attaching them to a backing (glass fiber cloth, PET or Fabric).

Micamafco specializes in producing Muscovite and Phlogopite Mica Paper Reconstituted Tapes with Vacuum Pressure Impregnated Technology (VPI) and Resin Rich Technology.



Mica Rigid Paper Sheets



Mica Tapes with Fiber Glass



Mica Paper Tubes

MICA PAPER TAPES, ROLLS, SHEETS, PLATES, BOARDS AND PARTS.

(Combi with one side or both side Backing Fiber Glass Cloth, Nomex / Aramide Paper, Ceramic Film, Mica, Kapton Film, Mylar and Polyester Film)

- Phlogopite, Muscovite, Fluorophlogopite & Synthetic Mica Paper Products
- Nomex Mylar Nomex
- Pure Nomex T410
- Polyimide Film Combi Adhesive
- Fiber Glass Rolls / Tapes
- Ceramic Rolls, Sheets & Tapes
- Flexible Mica Paper Sheets / Rolls

- Rigid Mica Paper Sheets
- Micatherms
- Mica Folium
- Heater Mica Paper Plates
- Mica Paper Tubes & Washers
- Mica Gaskets
- Fire Proof Mica Paper Tapes

Resins used: Silicone, Epoxy, Polyester Alkyde Vinyl

MICA POWDER & FLAKES



Today Industries like Plastic Polymer Systems, Acoustics, Oil Well Drillings, Gypsum Wall Boards, Cosmetics, Floorings, Rubber Tyres, Paints & Welding Electrodes use Micamafco Mica Powder.

Produced from Indian Muscovite and Phlogopite Mica Scrap by pulverizing into wide range of particle sizes from 2μ to 6470μ as according to the suitable applications, we manufacture the following types of Mica Powder and Mica Flakes

- Dry Ground Mica Powder
- Micronized Mica Powder
- Wet Ground Mica Powder
- Calcined Mica
- Colored Mica Powder
- Biotite Mica Powder & Flakes

APPLICATIONS



HEATING ELEMENTS

Micamafco specializes in the manufacturing of a complete line of Mica Insulated Heating Elements suitable for Flat-Irons, Kettles, Toasters, Band Heaters, Strip Heaters, Convector, Hair Dryers, Microwave Ovens and other heating equipments.



THERMAL INSULATION

Mica is fireproof, infusible, incombustible & non-flammable and has excellent thermal expansion ability. Micamafco offers Thermal Insulation Products to Induction Furnaces, Refineries, Foundries, Grid Rheostats, Gaskets & Power Plants that are used at high operation temperature upto 700°C.



SOLDERING IRON

Soldering Iron is made of high resistance nichrome wire, wound on superior quality natural Mica. Micamafco offers a thin rectangular mica film wrapped around the flat part of the copper bit to eliminate physical contact between the resistance wire and to avoid short circuit.



PEARLESCENT PIGMENTS

Mica prevents cracks in particularly thick films as the drying process induces shrinkage. Thanks to its barrier properties, mica brings high value in external renderings and anti-corrosive paints. Mica is the only natural substrate that provides a pearlescent effect once it has been coated with TiO_2 or Fe_2O_3 .



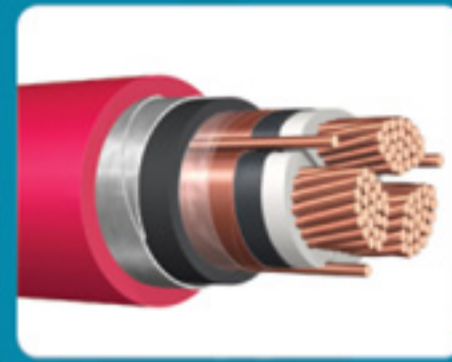
PLASTICS

Mica acts as a reinforcing additive and is used in compounds in the packaging industry to reduce warpage in thin plastic frames. In the automotive industry, due to its low coefficient of thermal expansion, mica imparts dimensional stability in complex shaped pieces.



POWER TRANSFORMERS

Micamafco offers High Voltage Mica Insulating Materials which can insulate High DC Volt Power (as high as 660,000 Volts), over long distance with minimum loss of energy and electricity.



CABLES

Cables require high degree of mechanical strength, thermal load & flexibility, hence Micamafco offers the cable industry with wide varieties of Micamafco Paper Tapes suitable for application in the areas where space factor is critical and the di-electric strength is over 900°C.



BOILER INDUSTRY

Micamafco manufactures flat, transparent and crystal clear Mica Shields and Mica Discs with Borosilicate Sight Glasses for Liquid Level Gauges and Columns which are used in high pressure Steam Boilers as a protection.



WELDING ELECTRODES

In Welding Electrodes a core of steel wire is coated with a "flux" comprising Muscovite Dry Ground Mica as a logging compound. The Mica coating serves in forming of a fusible slag and a good seal at the fusion zone on the arc.



COMMUTATOR INDUSTRY

Micamafco offers the highest quality High Voltage Electrical & Thermal Insulating Solutions for Rotating Electrical Machines, AC/DC Motors, Traction Motors. Some major products offered are Nomex, Polyester, Mica, Ceramic Film, Fibre Glass Film, processed using Vacuum Pressure Impregnated Technology & Resin rich Technology.



OIL WELL DRILLING

MMC LCM is used for mud constituent for oil well drilling. Its main role is to seal the borehole walls to prevent leakage and pressure loss when the drill bit encounters fractured areas. Micamafco Mica Powder LMC are mainly used as Loss Circulation Material Fillars in world-wide Oil Drilling Industries.



BRAKE PADS & CLUTCHES

Thanks to its high thermal resistance and platy structure, mica is added to frictional systems to impart better heat transfer combined with noise reduction.

NOMEX
PAPER ROLL
MICA FLEXIBLE
PAPER SHEETS

MICANITE TUBES
POLYIMIDE FILM
MICANITE SEGMENTS
FIBER GLASS CLOTH
KAPTON FILMS
COMMUTATOR INSULATION
MICANITE WASHERS
MICA SILICONE ROLLS

DRY GROUND MICA POWDER
MICA HEATING ELEMENTS
MICA SPLITTINGS & FOLIUM

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