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.

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

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 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, Fluorphlogopite & 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 Alkyd Vinyl

MICA POWDER & FLAKES


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
- Wet Ground Mica Powder
- Colored Mica Powder
- Micronized Mica Powder
- Calcined Mica
- 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 TiO2 or Fe3O4.

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 dielectric 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 as 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 Fillers 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.