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**SCIAMA S.A**

**Grinding Mica**

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# The company

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Located in Dunkerque for 20 years, our factory has always aimed to produce mica powder. At SCIAMA we constantly adapt our offer to the needs and necessities of the current request.

We deliver on the international market the best quality compared to our competitors. We have evidence and references to our customers who have remained loyal since our establishment, or after a test competition to give back to our society.

# Grinding principle

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Made under the name Wet Ground.

A method of wet milling.

This operation is carried out slowly by friction and is more cleavage than grinding and respects the maximum spangled nature of mica powder providing a high gloss, easy streaming and a very high purity.

The major advantage of this type of construction is to obtain a powder of high purity in its manufacturing process that eliminates sedimentation, centrifugation, drying and selection, all foreign particles.

We recall the extreme purity of our powder. Analyzes detection quartz R. belong to a content of less than 0.5%, making it suitable for any type of application without restriction as to the technical and health protection as it has no harmful particle suspension standpoint. We can therefore guarantee neutral and natural.





# Grades and name

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Our production is sold under the following names :



- **Grade standard  
equivalent yo 400  
Imperial ou au 200/325  
mesh**
- **Grade 700**
- **Grade 1000**
- **Grade FP 600**
- **Grade 315**

Produce at an industrial stage, the Standard grade is the most widely used.

Here are the main use of mica powder.

## *« Rubber industries »*

### Load

Inert load, used particularly in sheets, seals and coatings where low gas impermeability is required. It also provides resistance to heat and can be used in the foam rubber or sponge rubber in the structures.

### Dusting agent (release)

It is used in manufacture of tires to prevent adhesion between the tire and the tube during vulcanization. For this use, it is suspended in an aqueous solution which is designed to prevent the powder to settle and from additives, resuspension by simple stirring. It should be noted that each tire manufacturer has its own formulation or so, is to provide specialized companies that we also supply.

Other uses are: the rubber sponge before vulcanization. As a lubricant to prevent caking and sticking insulating and as an agent for separating the cores during vulcanization of the outer layers of the cables.

When it is used as a surfactant, the mica powder leaves a silvery appearance on the surface.

### Thermal conductivity

Mica is a very good insulator due to its low thermal conductivity (coefficient close to the glass). Mica is also an excellent electrical insulator.



### Acoustic properties

Mica also has acoustic qualities and can be used as sound insulation. These elements represent the essential properties of mica. However, other benefits can be expected depending on the desired use.

In the use of molds, it can be used as a dusting agent, optionally in addition with soapy solution.

In summary, it is considered that this formulation covers the following users:

- Manufacture of tires and inner tubes
- Manufactures gaskets
- Factory rot rubber to oil and gas
- Factory hoses and rubber
- Manufacture of rubber and honeycombed
- Electric Cables.

This powder is also used in drop formulation for making wax molds and products derived from welding.

Used as a filler and mold release agent for foam latex, she gives it added strength and an effective flame retardant.

Load for manufacture of the coating of the resistors in the electronic domain to a percentage of 30% thereof.

### *« Painting »*

#### Advantages of Wet Ground.

Mica flakes transmit and reflect both the light, thereby producing decorative effects.

Mica flakes milled polished water slide easily over each other or other surfaces and thus act as a dry lubricant. Mica flakes tend to flip in a liquid medium. For this reason and because of their low density, they do not tend to settle by sedimentation but are uniformly dispersed.

Serving both to stiffen and strengthen the paint, it can relax the constraints and avoid the formation of microscopic cracks.

Mica is also aimed in this application to reduce the penetration of damaging sunlight, moisture, heat, aggressive gases. Finally, it reduces the formation of streaks, festoons and contractions.

In some cases, it is possible to replace up to 25% of the content of alumina powder in some paintings by mica.



Differents based paintings mica :

- Primary
- Outdoor
- Inside Mates and latex
- Road paintings
- Colouring of wood exposed outdoors
- Heat-resistant paintings
- Products for standing surface repair
- Textured Paintings
- Special paintings for bricks and masonry
- Pipe-line coating
- Sealants



#### *« Wallpaper industry »*

Used as a coating agent, mica gives the paper a glossy surface look great with a reflecting significantly improved power. In this regard, it should be noted a new and substantial interest which requires, however, a mica absolutely free of impurities (our quality meets this requirement and are regular supplier of a large manufacturing company).

#### *« Electic Garage »*

In addition to the benefits listed above, the mica is currently used for the production of a resistant outer sheath at high temperatures and designed

especially to places deemed dangerous such as drilling platforms or overheated environment.

### *« Plastic industry »*

Ground mica is an excellent support for plastics, to whom he communicates better dielectric properties, increased resistance to heat and shock. This is especially a very good charge for resins, polyester and epoxy. Mica is not abrasive to the mold and reduces shrinkage. Advantages of Wet Dry Ground on its competitor are:

- The fact that the e thinner for the same diameter which gives a MDT (Hy aspect ratio) higher.
- The absence of quartz and harmful impurities processing machines, extruders, injection molding machines.

### *« Dry chemical »*

Because of its glittery nature, our mica powder is very suitable and widely used in the manufacture of dry chemical, to which it confers a high coverage and dispersing power. However, a substantially constant particle size is required since the flow of the mixture through the nozzle of small diameter passing.

Systematic checks being carried out on our production, we guarantee the consistency of our size.

# Grades

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## GRADE FT 600

This powder has a substantially lower than the standard grade distribution and a very fine particle size and, thus, used in the preparation of paints, a direct competitor of a micronized mica, it provides all the benefits of a Wet Ground in size equal to the previous one. Approval was given to us by GOODYEAR for the incorporation of this quality in the formulation of the phlogopite.

Is also used in amyl styrenes.

## GRADE 315

It is a powder that unlike the standard has a very high density. It is primarily intended for incorporation in a higher percentage, as an inert filler dry chemical.

Developed recently by our company, it meets the current demands of powerful powders.

## GRADE 700 AND 1000

Derived from manufacturing, these two qualities have followed a different manufacturing process, giving them a special appearance and smoothness. Due to their bright, reflective of their high lubricity (free abrasiveness) are widely used by cosmeticians for the manufacture of creams, foundation, blush and eye shadow.

Our manufacturing process after a natural heat treatment, giving them a place in this area (absence of bacteria and fungi).

Our customers are currently providing the majority of Europeans Laboratories.

Grades are also used in pharmacy as a lubricant of different latex articles.

Because of their great finesse, the manufacturers have developed high performance electric nail from these qualities and clothing thin rubber protection resistant to gas permeation.

#### [Particular product: phlogopite mica powder](#)

We also produce an original product: powder phlogopite.

The manufacturing process is the same as that of muscovite and grades available.

This product is light gray, slightly shining. And its cost is lower than the muscovite for all grades.



# Packaging

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Our standard grades - FP 600 and 315 are packed in paper bags of 25 kg ; and each can, upon request, be palletized and encased.

Grades 700 and 1000 are sterilized by Gamma Ray and sealed in a closed cardboard with a weight of 40 Kg

A full data sheet listing the size and chemical analysis will be attached to all this and by quality.

Due to its mineral composition, mica does not have a definite chemical composition, the above may slightly varied and are only averages properties.





# Contact



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