



MACTUS

MINERAL LLP

Serving Ceramics



About Mactus Mineral LLP

Our processing plant is located at Morbi(Ceramic City of India). We are equipped with all the facilities like feldspar mines, crushing, grinding, refining, filtration, chemical & physical test laboratories by means of which we can have better control over the quality as well as quantity parameters in our product.

Who we are ?

Our Group introduces as a leading manufacturing organization which produce refined soda & potash feldspar by the technocrats having more than 20 years of experience in Ceramic Industry.



Why choose us ?

We are proud to introduce ourselves as an Indian feldspar processing plant of 74 microns powders with world's latest cutting edge technology for the wet grinding process include dryer in soda and potash feldspar refining.

Focus On Customer Satisfaction

Always emphasizing on customer satisfaction & improving the planning method in all areas to deliver the product within the shortest possible period of time with the finest quality and best rates.



Get to know us better

We are the team of techno-commercial people covers all the aspects of the business in mineral processing activities with the help of our knowledge and product quality. We got tremendous achievements in our very short time of soda and potash feldspar supply to the ceramic industry.

Our motive force of working is thriving towards the innovation and solutions. We are continuously working to provide best solutions to the Ceramic industries.

Mactus Core Values

- ➔ Quality Consistency
- ➔ Customer Satisfaction
- ➔ Innovation
- ➔ Global
- ➔ Excellence

Quality Assurance

We are equipped with the world-class instruments for the quality control. We have two in-house laboratories by which we can produce the world-class products & consistent quality. our separate quality control system helps us to deal with the inspection of every product to ensure quality.

Our quality people can characterize in details your products' samples and consequently help you get the most out of your product. This service is available on our platforms, notably in developing countries. our separate quality control system helps us to deal with the inspection of every product to ensure quality.



Research & Development

The R & D facility provides immense benefits in terms of improved economies of scale, quick identification of product flaws, and quicker lead time to market with modified or new products. The lab is well equipped with several testing instruments and apparatus managed with assured and comprehensive quality control.



Gradient Kiln

Six electrically heated chambers to generate thermal properties at six different temperatures controlled by a computer program.



ED-XRF Spectrometer

Boasts of highly accurate measurements, and safe and suitable sample preparation; perfect for qualitative and quantitative analysis due to its wide dynamic concentration range and support for wide range of elements.



Color Spectrometer

Color classification is important as raw materials are priced differently according to their color. It is recommended to check and sort them according to its L*, a* and b* values which represents the amount of lightness and darkness.



Water Absorption

Consists of vacuum method equipment which defines precise water absorption characteristics.



Dilatometer

Perfect determination tool for material behavior against temperature to predict the controlling process parameters.



Particle Size Analyser

Reliable solution to routine particle sizing needs of the industry with full automation features and software-driven control and data management.



Modulus Of Rupture Equipment

Automatic data-controlled computer for modulus of rupture for different types of raw material by simulating the load-bearing capacity, breaking strength and modulus of elasticity.

Soda Feldspar

We are accredited for manufacturing quality Soda Feldspar which has diverse application across many industries. Soda Feldspar manufactured from quality raw material procured from our own Mines. We use latest WET GRINDING technology our products are in compliance with the set standards of the industry. We meet customize demands at very nominal price.

Properties

Basically, the two properties which make feldspars useful for downstream industries are their alkali and alumina content. Feldspars play an important role as fluxing agents in ceramics and glass applications, and also are used as functional fillers in the paint, plastic, rubber and adhesive industries.

Chemical Properties

Properties	MML-101-DC	MML-101-BG	MML-101-GA
SiO ₂	70% (± 1%)	71% (± 2%)	67% (± 1%)
Al ₂ O ₃	17% (± 1%)	17% (± 2%)	18% (± 1%)
Na ₂ O	8% (± 1%)	7% (± 1%)	10% (± 1%)
K ₂ O	1% (± 0.5%)	1% (± 1%)	1% (± 1%)
li ₂ O	Trace	Trace	Trace
CaO	<0.9% (± 0.05%)	<0.9% (± 0.05%)	<0.9% (± 0.05%)
MgO	Trace	Trace	Trace
Fe ₂ O ₃	<0.1% (± 0.05%)	<0.1% (± 0.05%)	<0.1% (± 0.05%)
LOI	<0.5%	<0.5%	<0.5%

Physical Properties

Parameters	Values
L Value	>85
A Value	-0.2 ~ - 0.5
B Value	<5.0
Whiteness	>65Degress
Particles Size	200#, 240#, 300# (74, 60, 50 microns)

Note: All above parameters are measured after firing at 1210°C temperature in Laboratory Furnace



Packing Sizes

Available Packing Sizes	50kg,1000kg (Jumbo Bag) and Bulk Loose
Shipment	20ft, 40ft Closed Container Loading via Sea Transportation
Port Of Loading	West Coast of India Ports (Mundra, Kandla, Pipavav, Nava Shiva etc.)

Applications

Glass, Vitrified Tiles Body, Special Electrical Porcelain insulators, Wind Plates, Sanitary wares, Bone china wares, Pottery, Vitrified Enamels, Frites.

Potash Feldspar

Presenting a wide quality range of Potash Feldspar lumps from our own mines, It is known for its unmatched quality and superior surface finish. These Potash Feldspar powder is manufactured by using latest WET GRINDING cutting edge technology and sophisticated engineering.

Properties

Basically, the two properties which make feldspars useful for downstream industries are their alkali and alumina content. Feldspars play an important role as fluxing agents in ceramics and glass applications, and also are used as functional fillers in the paint, plastic, rubber and adhesive industries.

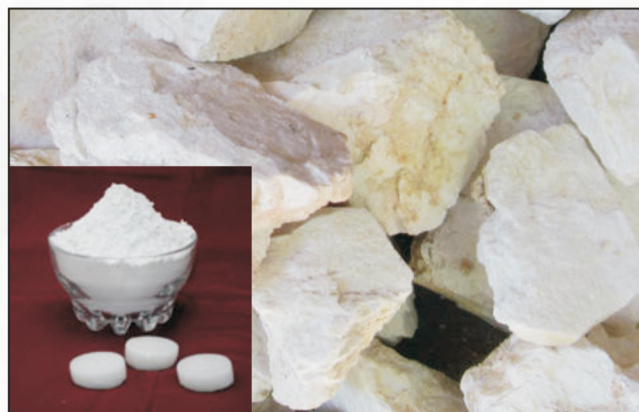
Chemical Properties

Properties	MML-201-GA	MML-201-DC	MML-201-GA+
SiO ₂	69% (± 1%)	70% (± 1%)	68% (±1%)
Al ₂ O ₃	18% (± 1%)	17% (± 1%)	18% (±1%)
K ₂ O	10% (± 1%)	7% (± 1%)	11%(±1%)
Na ₂ O	2.5% (± 1%)	2.5% (± 1%)	2.5(±1%)
TiO ₂	Trace	Trace	Trace
CaO	<0.9%	<0.9%	<0.9%
MgO	Trace	Trace	Trace
Fe ₂ O ₃	0.1%(± 0.05%)	0.1%(± 0.05%)	0.1% (±0.05%)
LOI	<0.5%	<0.5%	<0.5%

Physical Properties

Parameters	Values
L Value	>85
A Value	-0.2 ~ - 0.5
B Value	<4.0
Whiteness	>67Degrass
Particles Size	200#, 240#, 300# (74, 60, 50 microns)

Note: All above parameters are measured after firing at 1210°C temperature in Laboratory Furnace



Packing Sizes

Available Packing Sizes	50kg,1000kg (Jumbo Bag) and Bulk Loose
Shipment	20ft, 40ft Closed Container Loading via Sea Transportation
Port Of Loading	West Coast of India Ports (Mundra, Kandla, Pipavav, Nava Shiva etc.)

Applications

Glass, Vitrified Tiles Body, Special Electrical Porcelain insulators, Wind Plates, Sanitary wares, Bone china wares, Pottery, Vitrified Enamels, Frites.

Quartz

Quartz is a chemical compound consisting of one part silicon and two parts oxygen. It is the most abundant mineral found at Earth's surface and its unique properties make it one of the most useful natural substances.

Properties

Quartz is highly resistant to both mechanical and chemical weathering. This durability makes it the dominant mineral of mountaintops and the primary constituent of beach, river and desert sand. Quartz is ubiquitous, plentiful and durable. The specific chemical characteristic of this quartz ore are high silica content (>99.8%) with low iron and titanium content. The quartz produced also has a distinctive round shape.

Chemical Properties

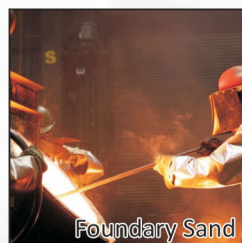
Properties	MML-301-GA
SiO ₂	99.20% (± 0.5%)
Al ₂ O ₃	Trace
Fe ₂ O ₃	0.02
TiO ₂	Nil
CaO	Nil
MgO	Nil
Na ₂ O	Nil
K ₂ O	Nil
L.O.I	<0.5



Physical Properties

Parameters	Values
L Value	>97
A Value	0.0 ~ 0.5
B Value	<1
Whiteness	>95 Degree
Particles Size	200#, 300#, 400# (74, 50, 37 microns)

Note: All above parameters are measured after firing at 1210°C temperature in Laboratory Furnace



Packing Sizes

Available Packing Sizes	50kg,1000kg (Jumbo Bag) and Bulk Loose
Shipment	20ft, 40ft Closed Container Loading via Sea Transportation
Port Of Loading	West Coast of India Ports (Mundra, Kandla, Pipavav, Nava Shiva etc.)

Applications

ceramic, glassmaking, abrasivematerial, foundarysand, petroleum industry.

China Clay

China clay is a white, soft, plastic clay mainly composed of fine-grained plate-like particles. China clay is an industrial mineral used primarily as an inert filler and it is combine with other raw materials in a wide variety of applications.

Properties

China clay has a low shrink–swell capacity and it is a soft, earthy, usually white mineral. It is a unique industrial mineral, which remains chemically inert over a relatively wide pH range and it offers excellent covering when used as a pigment or extender in coated films and filling applications.

Chemical Properties

Properties	MML-401-CC
SiO ₂	56% (± 1%)
Al ₂ O ₃	39% (± 1%)
Fe ₂ O ₃	0.7% (± 1%)
TiO ₂	1% (± 0.05%)
CaO	<0.9%
MgO	0.6% (± 0.05%)
Na ₂ O	< 1
K ₂ O	< 1
LOI	11 to 13 %



Physical Properties

Parameters	Values
L Value	>95
A Value	0.0 ~ 0.5
B Value	<1.5
Whiteness	>92 Degrass
Particles Size	D ₁₀ = 0.7 μm, D ₅₀ = 3.63 μm, D ₉₀ = 24.45 μm

Note: All above parameters are measured after firing at 1210°C temperature in Laboratory Furnace



Ceramic Tiles



Sanitaryware



Paper



Paint

Packing Sizes

Available Packing Sizes	50kg,1000kg (Jumbo Bag) and Bulk Loose
Shipment	20ft, 40ft Closed Container Loading via Sea Transportation
Port Of Loading	West Coast of India Ports (Mundra, Kandla, Pipavav, Nava Shiva etc.)

Applications

Ceramic, cosmetic, paint, semi-reinforcing property in rubber, organic farming, as a filler in Edison diamond discs, technical ceramic, fiber glass.



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