



Company Profile

Incorporated in 2000 by Mr Kishore Chandni, Sunrise Exports is one of the leading manufacturers exporters and suppliers of mining products like Talc power/Soapstone powder, Dolomite powder, Calcite powder, China clay powder, Quartz silica powder.

These mining products are supplied in different parts of the world.

With a strong focus on quality and development we are geared to meet the challenges of the 21st century and to maintain our leadership in the market.

QUALITY

- ❑ Committed to quality as all our products are subjected to stringent ISO STD TESTS.
- ❑ Products tested on various parameters.
- ❑ Quality achieved by number of inspection procedures performed by professional production technicians.
- ❑ Finest raw materials used in production.
Products are met to quality standards before reaching the market.
- ❑ Regular quality checks conducted to maintain quality standards of the final product that reaches the market.
- ❑ Dedicated to provide our customers with the finest quality products and services, assuring timely of orders.

Factors which have helped us in creating niche in a short span of time

- ❑ Quality goods
- ❑ Timely delivery
- ❑ Customer satisfaction
- ❑ Easy mode of payment
- ❑ Professional team of workers
- ❑ Large clientele base

OUR CLIENTELE

- ❑ West Africa
- ❑ South Africa
- ❑ Central Africa
- ❑ Middle East Countries

Memberships

We are registered members of the federation of indian export organization, Govt of India.



COMPANY USP

- ❑ Installation Training
- ❑ Onsite Support
- ❑ Operational Training
- ❑ User Manual
- ❑ Experienced R & D Department
- ❑ Large Production Capacity
- ❑ Large Product Line
- ❑ Best Testing Facilities

OUR FACTORY SITE



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RAW MATERIALS



OUR LABORATORY



TALC POWDER/SOAPSTONE POWDER



- Specific Gravity : 2.7 - 2.8 (low)
- Mesh : 200 - 700n microns
- Chemical formula : $\text{Mg}_3\text{Si}_4\text{O}_{10}(\text{OH})_2$
- Other names : Steatite/French chalk/Talc
- Structure: Lamellar/Platy/layered
- Hardness (on Moh's scale) : 1 (Softest mineral)
- Bulk density(Tapped) gms/cc 0.45 – 0.5
- Loss on ignition : 5.50%
- Loss on drying : 0.05%
- Ph balance : 8.5 – 9.5(Basic)
- Matter insoluble in HCl : 95%(Min)
- Refractive index : 1.540 – 1.590, Tolerance (+0.010/-0.002)
- Grit percent by mass (max) : 0.02
- Relative density : 2.7-2.9 (at 27 Deg C)
- Water absorption(% by mass) : 0.1
- Oil absorption ml/100gm : 28-35
- Brightness : 78-98%

TALC POWDER/SOAPSTONE POWDER

PHYSICAL PROPERTIES:

- Soft and very easy to carve
- Non porous
- Non absorbent
- Low electrical conductivity
- Heat resistant
- High specific heat capacity
- Resistant to alkalis
- Absorb moisture, absorb oils, absorb oils, serve as a lubricant and produce an astringent effect with human skin

TALC POWDER/SOAPSTONE POWDER

GRADE	WHITENESS (in %)	Industry
GRADE - A	90% to 95%	Pharmaceuticals and Cosmetics
GRADE - B	85% to 90%	Superior grade paper, Textile, Ceramics
GRADE - C	78% to 85%	Paper inferior grade, Paint, Rubber, Plastics and Detergent
GRADE - D	78% and below	DDT

USES OF TALC POWDER

For Plastics:

Our talc is used as a filler in plastic industry due to its various useful purposes. The talc extracted here has a higher resistance to heat which reduces shrinkages in plastics by increasing its heat resistance. Also it provides stiffness to polypropylene, polyester, vinyl, etc.

For Paints:

Due to platy structure of talc extracted here it is quite helpful for paints. When the paint is applied and the water evaporates the mineral substances remain on the wall. Also the brightness level of talc extracted is high which is good for any kind of paint.

For Paper:

It is well known that the paper industry is a huge consumer of talc powder. But due to less abrasion levels in talc it is a much healthier option for paper industries.

For Rubber:

As the talc here has high resistance to heat and has good abrasion indexes it is preferred in rubber industries over the world.

For Ceramics:

A low iron content(<0.5%), heat resistance and other notable factors it is used in ceramics because after heating the possibility of black particles to be visible is lesser in talc here.

For Cosmetics:

Talc extracted here is bacteria free and poses no health hazards to skin. It is smooth, glossy and lusturous. It is fluffy when converted to powder form. Also impurities such as calcium and alumina are absent which makes it most suitable for cosmetics when applied on skin.

QUARTZ/QUATRZ SILICA



Chemical formula : SiO_2

Colour : Pure form of this mineral is colour less, if impurities present then it is coloured

Structure : Sub angular, rhombohedral

Hardness on (on Moh's scale) : 7

Specific gravity : 2.65

Bulk density(tapped) gms/cc : 165.5

Melting point : 2912 fahrenheit

Boiling point : 4000 fahrenheit

Ph balance : 7

Matter solubility in H_2O : Insoluble

Refractive index : 1.544

Mesh : 250 mesh (65 micron) – 800 mesh (10 micron)

Average particle size(micron) : 3-11.3

Relative density : 130-430

Oil absorbtion ml/ 100 gm : 40

Brightness : 90-98 %

USES OF QUARTZ SILICA POWDER

- In semi conductor industry, Silica powder is used to conduct reaction with hydrofluoric acid for engraving quartz.
- Reaction of silica with lead oxide or sodium oxide is utilized to produce different grades of glass that includes borosilicate glass.
- It is used as one of the key ingredients for micro chip in computer.
- It acts as an additive for processing of plastics and rubber.
- It is used as a powerful filler for producing construction material like concrete.
- It is used for improving viscosity of coatings.
- Useful for enhancing holding capacity of tire on wet surface.

DOLOMITE POWDER



Chemical formula : $\text{CaMg}(\text{CO}_3)_2$

Colour : Colourless, white, green, grey, brown, black

Structure : Three directions of perfect cleavage

Hardness on (on Moh's scale) : 3.5-4

Specific gravity : 2.8-2.9

Bulk density(tapped) gms/cc : 0.95-1.1

Ph balance : 9

Dispersibility : HG 5 – HG 4

Refractive index : 1.54

Mesh : 250 mesh (65 micron) – 800 mesh (10 micron)

Average particle size(micron) : 5.3-10.6

Relative density : 130-430

Oil absorbtion ml/ 100 gm : 20-18

Brightness : 90-96 %

Matter in HCl : Powdered from effervesces weakly in dilute HCl

CaCO_3 : NIL- upto consumer requirement

USES OF DOLOMITE POWDER

RUBBER PRODUCTS:

A huge market for dolomite is rubber industry manufacturing different products as footwears, container, etc.

CONSTRUCTION:

In a crushed manner it is used extensively in construction industry such as base of roads, aggregate in cement and filling in different manners. Rail road Ballast also invites huge usage of dolomite sand.

AS A STRAINER:

Used in hydro power plants to strain all the impurities from water when used as sand formation.

THERMAL POWER PLANTS:

Due to its high resistance to heat it is used in kilns for lining in the inside part and also exterior.

CERAMIC INDUSTRY:

Due to its hardness and high gravity it is used hugely in tiles and other ceramic based industries , as well as a sintering agent in iron ore pelletization and as a flux agent in steel making.

CHEMICAL INDUSTRY:

Due to use of MgO in pharma and other scientific purposes, dolomite is used in this industry also. Extraction of MgO from powder or chips os done through chemical processing by treating it with various acids.

CALCITE POWDER



Chemical formula : CaCO_3

Colour : White, Yellow, Red, Orange, BGreen, Grey, brown, black

Structure : Spherical and crystalline

Hardness on (on Moh's scale) : 3

Specific gravity : 2.7102

Bulk density(tapped) gms/cc : 0.72 to 1.2 (as per particle size)

Ph balance : 9.4

Dispersibility : HG 4 – HG 7

Refractive index : 1.56

Mesh : 250 mesh (65 micron) – 800 mesh (10 micron)

Average particle size(micron) : 5.3-10.6

Relative density : 2.7102(2) g/cm³

Oil absorbtion ml/ 100 gm : 19-29(depending upon particle size)

Brightness : 90-98%

CALCITE POWDER

GRADE	WHITENESS (in %)	Industry
GRADE - A	96%	Paints, Plastics, Coatings
GRADE - B	94%	Paints, Paper, Plastics
GRADE - C	92%	Paper, Rubber, Adhesive
GRADE - D	90%	Cement and building material

USES OF CALCITE POWDER

PLASTICS:

Due to higher levels of brightness and best lustre the calcite extracted here is best suited for plastic industries and products as master batch/PVCP pipes/etc.

PAPER:

It's a growing industry for calcium carbonate. These days soapstone and calcite are used simultaneously in paper industry. Lesser abrasion index makes it best suitable for paper.

PHARMACEUTICALS:

After proper treatments this material can be used for pharmaceuticals and food grade industry. Also huge intake in FMCG (edible) is there for this product.

CATTLEFEED AND PESTICIDES:

This product has a huge demand in this industry as it is a good carrying agent.

CHINA CLAY POWDER



Chemical formula : $\text{Al}_2\text{Si}_2\text{O}_5(\text{OH})_4$

Colour : White or yellowish
white, earthy mass or white powder

Structure : Dry powder, semi-
dry noodle, or liquid slurry

Hardness on (on Moh's scale) : 2-2.5

Specific gravity : 2.7-2.8

Bulk density(tapped) gms/cc : 0.65-0.75

Ph balance : 5.5-6.5

Refractive index : 1.565

Mesh : 300/400/500

Relative density : 1.8-2.6

Oil absorbtion ml/ 100 gm : 25-30

Brightness : 77-83%

CHINA CLAY POWDER

PHYSICAL PROPERTIES:

China clay is primary clay and generally found in white colour.

- Casting rate : high casting rate in slip casting compared to ball clay
- Particle size: large particles as compared to ball clay.
- Green MOR: Modulus of rupture is low compared to ball clay
- Plasticity: Low plasticity compared to ball clay
- Refractoriness: High refractoriness

USES OF CHINA CLAY POWDER

China clay used in all Kind of ceramic product production and other products for its properties. Following are the primary uses of the china clay :

- China clay is used as a filter in paper and textile industry.
- Used as a coating pigment
- China clay is used in the manufacturing of porcelain, crockery and paint industry.
- China clay is used in pharmaceutical and cosmetic industry.
- It is used in varieties of papers, carboards and hardboards.
- China clay must be free from silica and feldspar is used for electrical insulators.
- China clay is used in soap , toothpaste, and cosmetic industry.

CONTACT DETAILS:

KISHORE CHANDNI (CEO)
whats app +91 9821277629

ADDRESS:

F-14, HI-LIFE MALL, 1st FLOOR, P.M.ROAD,
SANTACRUZ WEST, MUMBAI 400054
MAHARASHTRA, INDIA

info@sunriseexport.net
kishorechandni@yahoo.co.in

UMESH KARTARI
whats app : +91 9819201633

THANK YOU.

