

Madhavi micro minerals pvt Ltd is one of the most respected companies who produces micro minerals in India and distribute them across borders. we started our operations two decades ago and today we are one of the largest sources of minerals. we concentrate on producing minerals of exceptional quality at our well equipped laboratories with the most advanced control instruments. We value our customers specific requirements and deliver the products accordingly. our R&D facility and quality control laboratory consists of adroit chemists and engineers who substantially focus on advanced quality products.

### **About Us**

Madhavi Micro Minerals Pvt Ltd started in the year 1990 in Kadapa District, manufactures different minerals of supreme quality. The company sustained its efforts towards excellence and innovation in the industrial arena. We understand our clients and deliver the products based on their requirements.

With Barytes as the initial product, we have grown up as multi product company catering to customers across the globe with our products like Calcite, China Clay, Dolomite, Red Oxide and Talc. We follow the best manufacturing practices and hence became the predominant provider of wide range of minerals & chemicals.

Baryte as our initial product the company expanded its production to other earth minerals like Quartz and Talc, delivering them to many parts of our country. The company has made an initial attempt of producing Baryte Powder using pulverizing machines in the early 90s. The company is proud enough to deliver the high quality products to its customers. Apart from Barytes and Talc, the company is growing as a top supplier of different grade products.

Keeping in view the quality of products and service, the company has been awarded the Certificate of Excellence & Good Service by many well recognized Drilling & Paint Generation Giants. On top of it, Madhavi Minerals Pvt Ltd values its customers as they are always the biggest achievement to the company.



**Vision:**

Our vision is to deliver the best quality products to our clients and turn into the world's best respected minerals supplier. To be a leading R&D department who is committed to develop new or improved minerals or processes through research findings. We also upgrade as per our client requirements and deliver new products to them.

**Mission:**

We assure to produce the best quality products to our clients without any compromise and achieve the customer delight.

**About our Clients:**

We consider our customers as a part of our organization and hence work closely with them. We believe that the customer satisfaction is always the best one to run the business successfully. Hence we stream line the way of working. Apart from this, the employees efforts also adds to our success.

We also aim to a philosophy built around focus and simplicity. As a result, an excellent relationship is built between us and our customers. .



## **Our Products**

Madhavi Minerals deals in a wide range of minerals like

**Barytes**  
**Calcite**  
**China Clay**  
**Dolomite**  
**Red Oxide**  
**Talc**  
**Silica**

These products are extensively used by different industries from textiles, plastic, rubber, adhesive, paper, printing ink and paints.

## **Processing**

As a leader and expert in mining and mineral processing industry, Madhavi Micro Minerals Pvt Ltd satisfy its customers through delivering excellent finished products to them. The company also focus on providing technically, economically and environmentally sustainable solutions.

We have different satellite processing plants that are located across the country. These plants include the state of art of machinery, processing technology and advanced equipment. The company also process minerals from regular fine, super fine and ultra fine depending on the customer requirement.

## **Sources:**

High level of technical and production expertise, comprehensive research and development activities are the strengths of Madhavi Micro Minerals. We identify and procure the minerals from right sources. Thousands of minerals found in earth's crust are refined and supplied as per the requirement of our customers or clients.

## **Quality Control**

Madhavi Micro Minerals Pvt Ltd has its own processing plants and quality control laboratories that are fully equipped with latest instruments. The company ensures that the manufactured products are of excellent quality and meets the requirements of the clients or customers.

Madhavi Micro Minerals Pvt Ltd is committed towards high quality products to all out clients. It has adopted a rigorous quality policy at its manufacturing unit in order to achieve the objectives of quality policy and achieve total quality management. Our experts in the quality department take care to ascertain high quality in our products right from mining and production to dispatch.

## **Research & Development & Safety**

A special team of Madhavi Minerals focus on Research & Development to produce ultra fine products & specialty minerals. The R&D center is fully equipped with state of art of equipment and hence they develop new products to different industries effectively. We also maintain quality edge in our products and hence our customers not only says thank you but also helps in increasing more customers.

## **Ecology & Safety**

Madhavi Micro Minerals is one of the few companies that accords the highest priority of safety and environment management. With our ongoing safety program, we always try to minimize the environmental impact and monitor the safety precautions at the manufacturing sites.

## **Products & Minerals**

### **Baryte**

Baryte or barite is one of the common mineral found in association with ores of cobalt, silver, lead, antimony and manganese. It is the non metallic minerals that can be easily identified anywhere on the earth. It is extracted by both surface and underground mining. The primary users of baryte minerals are oil and gas industries. They use these minerals as a weighing agent in drilling mud.

Madhavi Micro Minerals Ltd produces White and Grey Barytes and are known for high purity. White color Barytes are generally used in paint, paper, rubber and chemical industries while the grey barytes are used by oil & gas industries.

Baryte Properties

## **Baryte Properties**

High gloss.  
High refractive index.  
Excellent filling power.  
High resistant to weathering and chemical.  
Low oil absorption rate.

## **Baryte Applications**

About 80% in the world use Baryte as a weighing agent in the process of oil drilling and gas exploration. Few applications of Baryte are:

It is used as pigment in paints.  
Used as a filler for paper, rubber and cloth.  
It is considered as the primary ore of barium and is used to make wide variety of barium compounds.  
It had added value applications which include the car, electronics, TV screen, rubber, etc.

## **Barytes Grades:**

### **Fine Barytes:**

Baryte with its chemical name Barium Sulphate is suitable for a wide range of industrial, medical and manufacturing applications. Fine Barytes are used in oil well drilling and is also used as a weighting agent in drilling mud.  
Particle Size: 100 – 240 Mesh.

### **Super Fine Barytes:**

Barytes has the unique distinction of having specific gravity and is being insoluble in water. Hence it is used in manufacture of barium chemicals and white paints.  
Super Fine Barytes are used in plastics, rubber, paper and glass.  
Particle Size: 300 – 500 Mesh.

### **Ultra Fine Barytes:**

Barytes are known for its strong crystalline structure and high refractive index. It helps to impart strength to different products. Hence it is used as a filler in various industrial applications.  
It is also used in paints.  
Particle Size: 2 microns.

## **Calcite**

Calcite is one of the most stable polymorph of calcium carbonate. Aragonite when reached to 380 - 470°C changes to calcite. It is found in sedimentary, metamorphic and igneous rocks all over the world. It serves as one of the largest carbon repositories on our planet and is used in the construction material, agricultural soil treatment and by pharmaceutical companies.

Calcite usually white in color is also found in gray, red, green, yellow, brown and orange colors. For hundreds of years, the limestone and marble have been crushed which is then used as an acid neutralizing soil treatment.

## **Calcite Properties**

Peaceful and gentle healing stone.  
It amplifies the energy being sent.  
cleans out stored negative energy from a room.  
It stimulates the immune system and strengthens over all health.

## **Calcite Applications**

Calcite powder is used as white pigment or as whitening agent.  
It is used as primary agent in whitewash.  
It is used as dietary supplement in animal feed.  
Due to its low hardness property it is used as an effective cleaning agent that does not damage the surface during cleaning.  
It is sprayed on the walls and roofs of underground mines to reduce the coal dust in air.



### **China Clay:**

China Clay also called as Kaolin is generally found in granite. It is formed due to decomposition of feldspar and the process is known as Kaolinisation. It is one of the purest form of clay and is been used in ceramic industries. Its deposits are found primarily in Georgia, North Carolina and Pennsylvania.

As China Clay has poor plasticity, they are often used in conjunction with additives. These are quicker to cast than sedimentary clay and are valued for their whiteness.

### **China Clay Properties**

It has high casting rate.

Low plasticity.

High refraction.

The particle size is large.

Modulus of rupture is low compared to ball clay.

### **China Clay Uses**

Used for treating diarrhea and said to absorb the infection causing bacteria.

It is used to heal minor scratches, itching, insect bites and mild burns.

Removes impurities from skin.

### **Dolomite**

Dolomite is a common rock forming mineral with chemical composition of Calcium Magnesium Carbonate. It is the primary component of sedimentary and metamorphic rock which is rarely found in modern sedimentary environments.

Madhavi Minerals Pvt Ltd with its superior technology started serving the quality products to its existing and new customer base. As dolomite is geographically extensive and found in hundreds to thousands of feet thick, the company has to place rigorous efforts to obtain the mineral.

Most rocks that are rich in dolomite are originally deposited as calcium carbonate mud which in turn are altered as magnesium rich pore water.

### **Dolomite Properties**

Dolomite is similar to the mineral calcite.

It is slightly harder at 3.5 to 4.

It is strongly reactive with cold hydrochloric acid.

It is iso-structural.

### **Dolomite Applications**

Though Dolomite as a mineral has very few uses. Whereas the dolostone has number of uses.

Dolostone is commonly used in construction industry. It is crushed, sized and used as a road base material.

It is also used in the production of cement.

Dolomite is used for acid neutralization in chemical industry.

It is used as an ingredient in production of glass, bricks and ceramics.



### **Red Oxide**

Red Oxide also called as Iron Oxide is red in color and lusterless. It is the basic mineral for steel plant and is most widely occurring mineral in nature. It is commonly used in construction, painting and other industries. Good quality with high percentage of iron oxide is available in different regions in India.

Red Oxides play a major role in geological and biological processes. These are widely spread in nature and are used as durable pigments in paints, coatings and colored concretes.

### **Red Oxide Properties**

It is known for its corrosion protection.

Has high durability and hence used in building materials.

It is both synthetic and natural.

### **Red Oxide Applications**

Red Oxide is used in every type of paint, primer, undercoat and powder coat.

It is used as pigment in tiles, floor tiles, flooring products, ceramic pottery, etc.

This high synthetic mineral is used in plastic & rubber industry.

### **Talc**

Talc is one of the most familiar mineral that is widely used in preparation of talcum powder. It has the ability to absorb the moisture, oil and odor. It is a hydrous magnesium silicate mineral with chemical composition of  $Mg_3Si_4O_{10}(OH)_2$ . It is considered as the main ingredient in preparation of baby powder, foot powder, first aid powder and different cosmetics. As it has soft properties, it is been used in making ornamental along with practical objects.

Madhavi Minerals identifies and procure the mineral from right source. The company takes a great care during the mining process so as to avoid the contamination of the talc with other rock materials. As contamination can introduce hard particles to that talc and cause problems in its applications. We take the partially crushed rock from mine to the mill and is further reduced in particle size. Impurities are removed by froth flotation or mechanical process and then delivered to our customers as per their requirements.

### **Talc Properties**

Talc has a low re-activity

It is not flammable

It does not react with water or air

It is available in pale green, white, gray white, yellowish white, brownish white colors.

### **Talc Applications**

Most of the products that are used as daily basis are produced from talc. Following are the special roles played by talc.

It is mainly used in manufacturing of plastics and as filler.

It is used in the manufacturing of ceramic products like bathroom fixtures, ceramic tile, pottery and dinnerware.

It is used as an extender as the platy shape of talc particles improves the suspension of solids and adhere to wall without sagging.

It is used as a mineral fillers as it can improve the opacity, brightness and whiteness of the paper.



### **Silica**

Silica is the other name for the compound silicon dioxide and is the main component used in preparation of glass. Making of glass objects using silica dates back to centuries. Silica makes up the mineral known as quartz and is the most abundant mineral in earth's crust. It has many industrial uses. It is used as abrasives, building materials, fillers, electronics and water filtration.

### **Silica Properties**

Silica turns to be solid and crystallized mineral under normal temperature & pressure.

Pure silica is colorless.

It has high melting and boiling points.

### **Silica Applications**

Due to its extending and low oil absorption features, silica is used in the manufacturing of wood filler.

Due to excellent wearing resistance, it is used in traffic paint for making roadway.

It is also widely used as an exterior paint.

It is used as basic raw material in manufacturing of glass.