



*“Committed
to Service
Excellence”*



OUR COMMITMENT

- Artha Minerals are committed to service excellence.
- Access to a large and very experienced workforce.
- AMR follows latest trends and developments locally and internationally.
- Wide range of quality products
- Prompt customer services.
- Maintaining international quality standards.
- Well-trained personnel and management team.
- Highly Developed Research & Development Team.
- Timely delivery of consignments.

our commitment



BALL CLAY

Ball Clay is a member of kaolinite family and is renowned for its plasticity and green strength. They consists varying proportions of kaolinite, mica and quartz, with small amounts of organic matter and other minerals, and are commercially values because they increase the workability and strength of various ceramic bodies and have white or near white firing characteristics. Ball clay is processed to minimize the levels of coarse particles. This enhances better workability and higher strength.

APPLICATIONS

- Sanitary ware,
- Tiles
- Table wares
- Non-Ceramic applications like functional fillers and advanced application for example technical ceramics.

Note: The Product can be customized as per the customer requirement.



BLEACHING EARTH

Bleaching Earth is manufactured from the best quality, selectively mined and scientifically blended montmorillonite clays under stringent process controls. While making Bleaching Earth special care is taken in maintaining the important properties like absorptive capacity, acid properties, catalytic properties, ion exchange capacity and particle size distribution.

APPLICATIONS

- Purification of Edible oil : Soya Bean Oil, Cotton Seed Oil, Palm Oil, Rapeseed Oil, Sunflower Oil, Rice Bran Oil, Corn Oil, Canola Oil, Olive Oil, Sesame Oil
- Non edible oils: Fish oil, lard oil, Fish wax, and Waste oil / used oil, Aluminium rolling oil, Waste edible oil, Biofuel etc.
- Used as Clay Catalyst in petroleum fractionating
- Wax refining: Paraffin Wax, Vegetable Wax, Fish wax, Petroleum Jelly.

Note: The Product can be customized as per the customer requirement.



BENTONITE

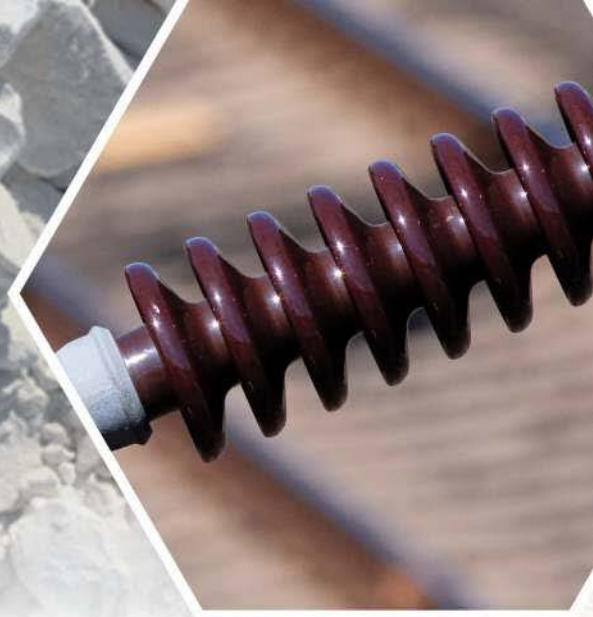
Bentonite is a clay mineral predominantly consisting of mineral Montmorillonite mixed with some related minerals like Nontronite and Beidellite. These are three layered Aluminosilicate with molecules of water between layers.

Due to very fine particle size, this Bentonite shows extra-ordinary swelling capacity and bonding powers. These differences mean that the Bentonite finds the most number of uses in various industries throughout the world.

APPLICATIONS

- Iron Ore Pelletizing, Foundry
- Construction & Civil Engineering
- Drilling, Paper Industry
- Pharmaceutical, Soaps & Detergents, Animal Feed
- Cat Litter

Note: The Product can be customized as per the customer requirement.



CHINA CLAY / KAOLIN

Kaolin, also called China Clay, which is a soft white clay . We bring forth Kaolin / China Clay that is manufactured from superior quality materials that assure our customers of our authenticity.

APPLICATIONS

- Porcelain and Chinaware, Crockery
- Electrical Insulators, and Paint Industry
- Pharmaceuticals and Cosmetic Industry
- It is also used as filter in paper and textile industry
- utilized in large quantity as filler and reinforcing agent in rubber goods

Note: The Product can be customized as per the customer requirement.



CALCINED BAUXITE

Calcined Bauxite is obtained by calcining (heating) superior grade Bauxite at high temperature (from 850oC to 1600oC). This removes moisture thereby increasing the alumina content. Compared to an alumina content of about 57 % to 58% in raw Bauxite, Calcined Bauxite has an alumina content of 80 % to 86 %. The heating is carried out in rotary kilns. Calcination is done at different temperatures ranging from 850oC to 1600oC depending upon the customer's application.

APPLICATIONS

- High Alumina Bricks
- Castables
- Welding Flux
- Adjusters Conditioners

Note: There are different size and grades of this product.



FLY ASH

Fly ash is a fine powder which is a by-product of burning pulverized coal in electric generation power plants. Fly ash is a Pozzolans, a substance containing aluminous and siliceous material that forms cement in the presence of water. When mixed with lime and water it forms a compound similar to Portland cement. The fly ash produced by coal-fired power plants provides an excellent prime material which can be used for different applications

APPLICATIONS

- Portland Cement
- Mosaic Tiles
- Hollow Blocks
- Paving Bricks
- Mine Fills

Note: The Product Standard is ASTM C 618 & BSEN 450



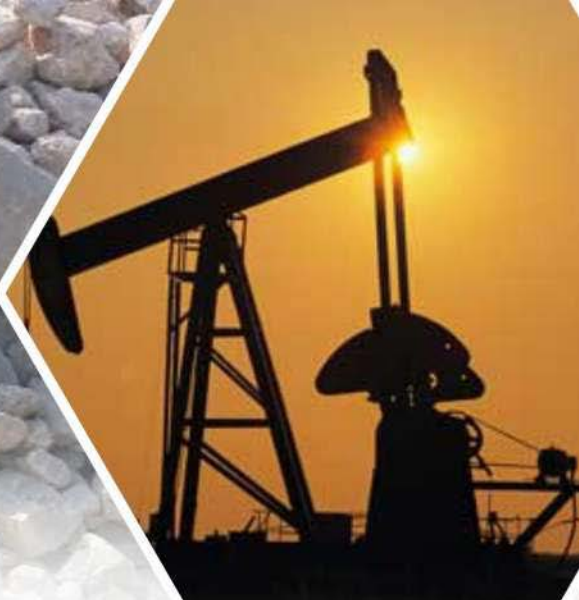
MICRO SILICA

Micro Silica is a by-product of producing silicon metal or Ferro silicon alloys. Because of its chemical and physical properties, it is a very reactive Pozzolans. Concrete containing Micro Silica can have very high strength and can be very durable. Our Micro Silica consists primarily of amorphous (non-crystalline) silicon dioxide with 92% to 94% SiO₂. The individual particles are extremely small, approximately 1/100th the size of an average cement particle. Because of its fine particles, large surface area, and the high SiO₂ content, silica fume is a very reactive Pozzolans when used in concrete.

APPLICATIONS

- Cement,
- Ready-Mix concrete
- Construction industries.

Note: The Product Standard is ASTM C1240.



BARITE

Barite is a mineral composed of barium sulphate (BaSO_4). Barite often occurs as concretions and void-filling crystals in sediments and sedimentary rocks. This name is in response to barite's high specific gravity of 4.5, which is exceptional for a non-metallic mineral. The unusually high specific gravity of this light colored mineral is the main distinguishing feature. It can also be identified by its insolubility in acid.

APPLICATIONS

- Oil & Gas well Drilling
- Main ore of barium metal
- Pigment for paper, textiles, and paint
- Radiation-shielding cement

Note: The Product can be customized as per the customer requirement.



POTASH FELDSPAR

Potash Feldspar is known to be most abundant mineral in Earth's crust, and most products we use today have feldspar as an ingredient. In ceramics, feldspar acts as a flux to control the temperature and provide hardness and durability.

APPLICATIONS

- Ceramic fillers
- Paint,
- Rubber
- Plastics
- Adhesive

Note: The Product can be customized as per the customer requirement.



SILICA FUME

Silica Fume is an amorphous (non-crystalline) polymorph of silicon dioxide, silica. It is an ultrafine powder collected as a by-product of the silicon and ferrosilicon alloy production and consists of spherical particles with an average particle diameter of 150 nm.

APPLICATIONS

- Cement,
- Ready-Mix concrete
- Construction industries.

Note: The Product Standard is ASTM C1240.



SODA FELDSPAR

Soda Feldspar is also known as Sodium Feldspar which is generally a clean white mineral that sources sodium, alumina and silica along potassium and calcium. Soda Feldspar has melting range of 11000C – 15000C. Soda & Potash Feldspar are interchangeable in glaze recipes but there are some differences between them. Soda Feldspar melts better than Potash Feldspar and has a higher coefficient than the potash. Soda Feldspar is a volatile substance and has excellent moisture absorbent capacity due to which this compound melts when it comes in contact with atmosphere.

APPLICATIONS

- Paint
- Rubber
- Plastics
- Adhesive

Note: The Product can be customized as per the customer requirement.



SILICA SAND

Silica is another name for silicon dioxide SiO_2 , of which quartz is a specific latticed structure. So silica sand is quartz that over the years, through the work of water and wind, has been broken down into tiny granules. These granules can be used for many different purposes, and can be found in most non-tropical regions of the world.

APPLICATIONS

- Glass
- Foundries
- Construction
- Ceramics
- Chemical Industry
- Water Filtration and Agriculture

Note: The Product can be customized as per the customer requirement.



TALC

Talc is the world's softest and most hydrophobic mineral. It adds new features to products that use it as a raw material and makes processes more efficient. While it is already used in various applications, constant research in the field of its usage is unravelling its wider usage and advantages.

APPLICATIONS

- Paper, Plastic, Paint and Coatings,
- Rubber, food
- Electric Cable, Electrical Switchboards
- Pharmaceuticals, Cosmetics
- Ceramics.

Note: The Product can be customized as per the customer requirement.



QUARTZ

Quartz is one of the most well-known minerals on the earth with numerous uses. Quartz is one of the most useful natural materials. Its usefulness can be linked to its physical and chemical properties. It has a hardness of seven on the Mohs scale which makes it very durable

APPLICATIONS

- Glass Industry
- Abrasive
- Foundry Sand
- Hydraulic Fracturing
- Rubber, Paint, Putty
- Ceramic

Note: The Product can be customized as per the customer requirement.



OTHER PRODUCTS

- Hydrous Kaolin
- Frac Sand
- Ethyl Acetate
- Ground Calcium Carbonate
- Natural Red Iron Oxide
- Mica
- Natural Gypsum
- Dolomite
- Raw Bauxite
- Construction Sand



SATISFIED CUSTOMER AROUND THE GLOBE

For Sales Inquiry

ICM TECHNOLOGY (THAILAND)

info@icmtechglobal.com

Tel: +66 83 819 6763