



KUTCH BENTO CLAY

(Mines Owner & Processor of Bentonite Powder)

An ISO 9001:2008 Certified Company

MANUFACTURER - EXPORTER OF BENTONITE & ALLIED MINERALS



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About us...

Kutch Bento Clay is a well-established firm in the field of Mining industry based at Mandvi, Gujarat province of India . We manufacture and specialize in all grades of Bentonite and cover all possible applications of its usage with on time delivery.

Our plant is very nearby western ports of India- Mundra & Kandla port and well connected with national highways.

We have our mines are at very close vicinity of our plant which gives us distinct advantage to process material in very cost effective manner. The processing area covers 16 acres land which gives us advantage to process multiple grades of Bentonite at one time. The covered area of our plant is 22,000 sq.ft with well- equipped machineries and fully equipped laboratory for manufacturing more than 0.3 million mt material annually.

We are also manufacturing wide range of Minerals like Attapulgate, Kaolin & Silica Sand covering all possible application of its usage at very competitive prices.

We understand the requirements of our clients and offer series of products processed with the help of latest technology and skilled labour to fulfill their requirements with on time delivery.

Quality is inherent part of our organization. We are dedicated to deliver the products as per international standard meeting customer requirements.

At mines, properties of bentonite varies mines to mines and sometimes layer by layer, so identifying the right raw material is very crucial. The Quality team in co-ordination with mining team works closely to ensure that right material is dispatched to plant for processing.

Our state of the art laboratory is fully equipped for minerals processing and testing. We have qualified and well trained team to carry out all tests related to quality and confirm the specifications declare by company as per standard test and procedures. The material is strictly been tested through all the stages of mining, processing, production and dispatch to ensure right quality of material is dispatched to customer.

Customer satisfaction

It is our top most priority in manufacturing our products. We work as team with punctuality, consistency and transparency to serve our clients at our best and are dedicated to give prompt response to enquiries of our clients 24*7.

We believe in building trust and confidence of our clients and uphold our promises for commitments regarding our products. We constantly work on Research and development of our products in co-ordination with client requirements. Our team is dedicately working on new technologies and improvements to offer more innovative products and excel customer expectations.

We welcome the suggestions and feedback given by the clients to bring improvements in our products and services.

We caters demands for various type of products from different industries such as -

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|---|---------------------------------|
| 1) Foundry, | 7) Animal Feeds |
| 2) Civil – Piling, HDD, Micro Tunneling | 8) Pond Lining |
| 3) Oil well Drilling | 9) Fertilizers |
| 4) Iron Ore Pelletisation | 10) Cosmetics / Pharmaceuticals |
| 5) Refractories | 11) Cat litter |
| 6) Paper | |

Oil-well Drilling / Civil / Piling

Bentonite has excellent thixotropic /suspension properties with low filtrate loss which makes it ideal for piling & drilling applications. Thixotropic nature of Bentonite allows slurry to penetrate deep into cleavages cracks and clogs the pores and develops good suspensions and friction agent stabilizing the excavations.

We manufacture High yield Bentonite as per Indian Standards (IS), American Petroleum Institute (API) and Oil Companies Material Association (OCMA) Standards.

We cover all possible usage of Bentonite customized to meet rheological properties in achieving desired parameters for wide range of civil applications suitable for Diaphragm walling, Board piling, Tunneling, Pipe – jacking & Horizontal drilling, Oil well drilling, Water well drilling, Grouting applications etc.

- Benefits**
- Maintains Thixotropic properties even in high temperature in deep drilling.
 - Good Penetration of Slurry to clog pores preventing water seepage into formations.
 - Excellent lubrication ability to helps bit for smooth operation and also acts as coolant.
 - High water Absorption seal permeable formation and Low Filtrate loss stabilizes borehole.
 - Cuttings from the boreholes are smoothly removed.
 - High cutting suspension withstands formation pressure



Iron Ore Pelletization

Bentonite selectively mined and processed for the application of Iron ore palletization. It is one of the most effective and economical binder for pelletizing iron ore. It possess, high water absorption properties which help iron fines to bind quickly and effectively. Also it is having higher natural percentage of Iron which is ideal in isolating ore pellets with the maximum percentages of Iron. It maintains excellent binding strength throughout the process of before and after firing of pellets.

- Benefits**
- Excellent Ball and Dry Strength with lesser consumption of Bentonite.
 - High absorption capacity prevents lumping and caking of the pellets.
 - Faster Formation Pellets reducing production time & better productivity.
 - Excellent Binding strength minimizes rejection loss in process loss.
 - Good Fe content & low addition in Silica content reducing slag formation. Excellent Thermal Stability.

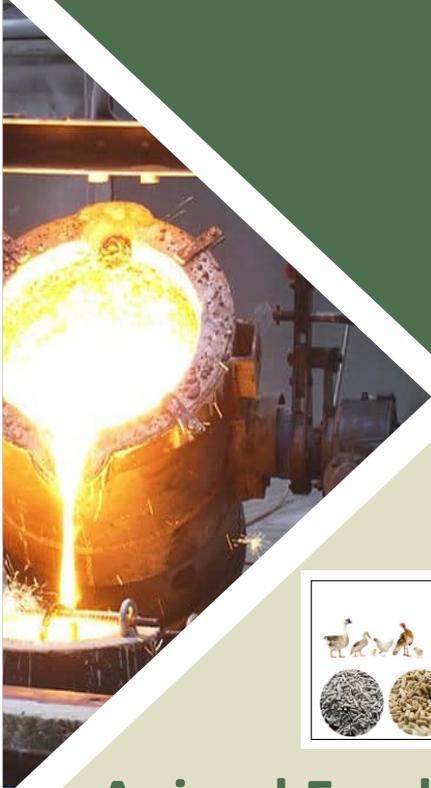


Foundry

Bentonite is traditionally being used as binder in Foundry, which develops excellent binding strength to greensand mold in iron and steel casting. It has good Thermal stability and good bond development properties with easy mulling and excellent shakeout characteristics leading to good surface finish of the castings.

Our Bentonite can be used for greensand molding applications including Arpha lines, High pressure Molding lines with flask and without flask. The Mixing ratio will be dependent on the sand quality, fineness and impurities which plays a vital role in mold strength.

- Benefits**
- Easy mulling and faster gelling minimizes sand mixing time.
 - High Swelling and Excellent gel uniformly binds sand grains.
 - High Green Compression Strength keeps mold strength intact eradicates mold breakages and other defects related to it.
 - Scabbing, rat-tail and buckles defect is almost zero due to High Wet Tensile Strength.
 - Generation of dead clay is less due to high Thermal Stability. Good Shakeout Properties & Surface finish.



Animal Feeds

The contamination of feed with mycotoxins is a continuing feed quality and safety issue, leading to significant losses in livestock production and potential human health risks. Bentonite is used as binder in animal feeds. It is used in animal nutrition along with other micro nutrient in Poultry and Cattle feed to adsorb mycotoxins and reduce mycotoxin bioavailability from contaminated feeds in the animal's gut. Bentonite has the ability to absorb and adsorb toxins and impurities, which detoxifies and cleanses the body and helps in better productivity.

Bentonite is technically recognized as feed additive by European Food Safety Authority (EFSA) in their JOURNAL- (July 2012) with recommended dosage between 1% to 2% max. which is totally safe to be used as binder. Also It has been approved as a substance for reduction of the contamination of feed by mycotoxins (aflatoxin B1) for pigs, poultry and ruminants according to EU regulation in the EU register for feed additives.

Our product is an animal feed binder grade bentonite which is selectively mined and processed with utmost care.

- Benefits**
- Bentonite act as sequestering agents for aflatoxins, it decrease bioavailability of the toxin in the gastro-intestinal tracts of birds and animal guts.
 - Eliminates toxins, detoxifies and cleanses the body.
 - High Binding properties enhances quick formation of pellets keeps ingredients intact.
 - Faster Formation Pellets reducing production time & better productivity.
 - Pellet hardness retained for longer duration minimizing feed loss.
 - Minimizes rejection in process on multiple handling resisting powdering of pellet.
 - Economical, Natural and Durable for uniform suspension of active ingredients in feeds.

Fertilizers

Bentonite is widely being used in fertilizers industry manufacturing DAP, NAPK and Sulphur fertilizers. It improves the fertility of the soil, enhances microbial activities and keeps grain dry and free flowing with uniform suspension of active ingredients. It is economical and eco-friendly solution to improve the yield of the crops and retain soil nutrients for longer duration.

It is used as Filler and binder in several organic manure, used for coating over urea, Dap and other Fertilizers, used in pesticides as carrier of micro nutrients.

- Benefits**
- Improves soil fertility & crop productivity.
 - Act as Granulation Agent and Enhances buffering capacity of Soil.
 - Fast dispersion and absorption retains micro nutrient of soil.
 - Helps in uniform release of ingredients into soil.
 - Faster development of bonding properties.



Earthing

Bentonite is used for earthing application as an earthing compound compared to traditional practice of using salt sodium chloride which is highly corrosive in nature and dissolves in water affecting the shelf life of the Electroplate. Due to this time to time maintenance of the earthing pit is required, if not done then fault issue arises. Coal is another compound used in earthing which can't resist high heat and gets converted into ash and can't retain water resulting in pit fault.

Bentonite holds moisture and is used as earth electrode back fill compound to help lower soil resistivity. It has the property of absorbing and retaining water for longer duration of time. Due to this the shelf life of earth conductivity lasts for longer period of time and also it protects earth conductor from corrosion.



- Benefits**
- Low resistivity & Low maintenance cost.
 - Non-corrosive on Earthing conductors.
 - Suitable for all kind of soils.
 - In pit moisture is retained even in dry surface.
 - Easy to use, Non-toxic, Non inflammable & Eco friendly.



Pond- Well lining / Sealing

Bentonite is a naturally occurring clay due to its swelling property act as a sealant and blocks the water passing through it. It swells 15-20 times more than its weight providing very effective and cost efficient sealing without polluting the water. It can be used for pond sealing, mineral exploration site holes, well sealing, dam sealing etc.

- Benefits**
- Seals the surface effectively.
 - Easily settles on the surface providing intermediate seal.
 - Economical, Easy to use, Non-polluting and Non-toxic.
 - Stabilizes at the surface and holds the seepage & suitable for all kinds of soil.



Paper Industry

Bentonite is used in paper industries to improve the efficiency of conversion of pulp into paper. It is used for absorption of wood resins and other impurities and improve the quality of paper. Our product is designed meet all the requirements of Paper Industry.

- Benefits**
- Adsorb contaminants & Prevents formation of deposits.
 - Drainage time of furnish decreases & Improves efficiency of paper machine.
 - Works with anionic and cationic flocculants.
 - Sheet holes and staining reduced & avoids Agglomeration of foreign particles.



Bentonite + Coal dust

It is premium quality blend of Bentonite and coal dust additives optimize to suit customized requirements of foundry. It is one shot addition for Bentonite and coal dust additives into sand system.

- Benefits**
- Good shakeout properties and Excellent surface finish.
 - Excellent Mold Strength and defect free castings.
 - Excellent Green Compression & Wet Tensile Strength & Thermal stability
 - Less Generation of Dead Clay.
 - Lesser consumption better results.



Cosmetics - Pharmaceuticals

For cosmetic application Bentonite is selectively mined and manufactured under controlled parameters. Bentonite act as an absorbent which extracts toxins and oil from the skin. It is used for facial, Anti Acne products, Bleach, lipstick binder etc.

- Benefits**
- Home Remedy, Easy to use, Keeps Skin
 - Glowing and Irritation free.
 - Herbal & Bacteria free & Zero Side Effects.
 - Absorbs Extra oil from Skin.



COSMETICS & PHARMACEUTICALS

Paints

Bentonite clay has good suspension and thixotropic properties, which makes it highly suitable to be used in paint industry. When used for manufacturing of paints actively absorbs and generates suspension covering large surface with lesser consumption.

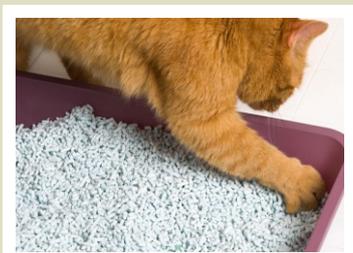
Selectively mined and processed bentonite is used for Paints in to achieve excellent thixotropic and suspension properties.

- Benefits**
- Gives high bonding properties & Low shrinkage.
 - Good Plasticity with large surface area, less consumption & smooth finish.
 - Fine material helpful for filling cavities.



Cat- litter

Made with finest and high quality Bentonite selectively mined and processed, giving high absorption property absorbs litter and odour faster and emits fragrance instantaneously. It forms a clump over the wet area, which makes it easy to clear the waste and the unused material stays intact for further use.



- Benefits**
- High Absorbent formula forms clumping fast.
 - Odour free – long lasting fragrance
 - No crumbling / dusting due to high binding and absorbent properties.
 - Soft on Cats skin and non- toxic.
 - Economical, Easy to use, Easy to clean & Eco Friendly

Ceramics

Bentonite is basically being used as filler in Ceramics. It is selectively mined and processed under controlled parameters to achieve desired plasticity covering large surface area for Ceramic Industries, generates good dry strength without effecting fired surface.

- Benefits**
- Gives high bonding properties & Low shrinkage.
 - Good Plasticity with large surface area, less consumption & smooth finish.
 - Fine material helpful for filling cavities.



Detergent

Bentonite has good absorbent and gelling properties which makes ideal choice to be used in as filler in detergent industry due to this dirt and other oily stains get easily removed from fabric without damaging the color and softens the fabric. It can be used in detergent powder as well as liquid soaps.

- Benefits**
- Gells excellent with detergent ingredients.
 - Softens fabric without damaging the color.
 - Easily removes all oily / Grease stains.



Other - Grades

Desiccants

- Adsorbs moisture from the atmosphere at the time of shipping and storing to protect goods from moisture.
- Widely used for Electronic Devices, Leather Goods, Food, Machineries Equipments etc. extending shelf life of products.

Refractories

- Bentonite is used in Refractories bricks lining to prevent molten metal damaging furnaces.
- It acts as plasticity agent between the refractory ingredients used for making refractories which gives a better shelf life to the linings.



Packaging

We offer several packing options as per customer requirement. We are able to pack our materials with various type of packing options including - 25 kg HDPE, 50 Kg HDPE, 1 MT, 1.25 MT Jumbo bag, 25 Kg paper bag etc.

We also cater for loose bulk order for various types of minerals. In case of loose material we charter ship or to stuff all material in a container without any packing. Minimum order Qty. In case of charter ship minimum will depend upon the availability of the vessel and 84 MT for loose material in container without any packing.



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