



COMMERCIAL CATALOG • ENGLISH

Minerals, metals and industrial chemicals

Cellulose fibers and additives. Raw material sourcing for industrial operations and international trade.

Connecting markets.
Creating opportunities.

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FBM GROUP LLC

Connecting your business to raw materials

FBM Group LLC connects businesses with international suppliers and markets, supporting product sourcing, quotation comparisons, commercial negotiations, and the coordination of import, export and logistics operations.

This portfolio covers minerals, metals, industrial chemicals, cellulose fibers and additives that FBM can source according to customer needs. Supply is subject to confirmation of availability, specifications and commercial terms.

PRODUCTS IN THIS CATALOG

Agalmatolite	Mica flakes
Clay	Aluminum silicate
Barite / Barytes	Barium sulfate
Bentonite	Talc
Calcium carbonate / Calcite	Cellulose fibers
Calcined kaolin	Calcium chloride dihydrate 74%
Hydrated kaolin	Caustic soda flakes 98%
Dolomite	Magnesium metal
Mica powder	

ADDITIVES AND INDUSTRY APPLICATIONS

Mortar additives • Construction • Oil and gas

TECHNICAL AND COMMERCIAL SELECTION

Provide the application, quantity, particle size, packaging and destination. FBM can coordinate the supplier inquiry, quotation and request for applicable technical documentation.

Properties are based on reference product documentation. Technical data sheets, Certificates of Analysis and certifications must be confirmed for each product and lot.

INDUSTRIAL MINERALS

Agalmatolite



Digitally generated illustrative image. Appearance and particle size may vary.

Hydrated aluminum silicate with a lamellar structure, pearly luster, silky appearance and chemical inertness.

TYPICAL APPLICATIONS

- Paints: coverage, opacity, whiteness, abrasion resistance and washability.
- Plastics: reinforcement of strength and hardness, with support for pigmentation.
- Ceramics and refractories: low shrinkage after firing, hardness and thermal shock resistance; applications in furnaces and contact with metals and slag.

Reference color: White

Listed mesh sizes: 200, 325, 400, 550 and 635

INDUSTRIAL MINERALS

Clay



Digitally generated illustrative image. Appearance and particle size may vary.

Hydrated aluminum silicate with ultrafine particles, high plasticity, moderate absorption and chemical inertness.

TYPICAL APPLICATIONS

- Paints: coverage, opacity, sedimentation control and abrasion resistance.
- Rubber and plastics: mechanical reinforcement, dimensional stability, impact resistance and improved finish.
- Ceramics and refractories: workability, moldability, and control of porosity and absorption, from the body to the glaze.

Reference color: White and cream

Listed mesh sizes: 60, 200, 325, 400, 550 and 635

INDUSTRIAL MINERALS

Barite / Barytes



Digitally generated illustrative image. Appearance and particle size may vary.

Natural barium sulfate with high density, low hardness, low solubility and chemical inertness.

TYPICAL APPLICATIONS

- Drilling fluids: weighting and pressure control in oil and gas wells; support for wellbore stability and cleaning.
- Paints, varnishes and pigments: coverage, opacity, whiteness, pigment extension and weighting filler.
- Friction materials and polyurethanes; high-density concrete and mortars for radiation shielding; a source of barium in steelmaking applications.

Reference color: White and cream

Listed mesh sizes: 200, 325, 400, 500 and 635

INDUSTRIAL MINERALS

Bentonite



Digitally generated illustrative image. Appearance and particle size may vary.

Smectite clay rich in montmorillonite, with absorption and swelling capacity, fine particle size, colloidal properties and low permeability.

TYPICAL APPLICATIONS

- Drilling fluids: viscosity enhancement, suspension of cuttings, thixotropic behavior and sealing of wellbore walls.
- Paints and varnishes: keeping fillers in suspension and controlling viscosity.
- Foundries: binding of molding sand. Pelletizing: binder for ores, animal feed and fertilizers.
- Civil construction: electrical grounding and sealing of soils, ponds and slopes.

Particle size and other specifications: on request.

INDUSTRIAL MINERALS

Calcium carbonate / Calcite



Digitally generated illustrative image. Appearance and particle size may vary.

A carbonate mineral with low absorption, low hardness and high whiteness.

TYPICAL APPLICATIONS

- Paints, varnishes and coatings: coverage, opacity, dispersion, washability and titanium dioxide extension.
 - Plastics and rubber: mechanical properties, dimensional stability and reduced wear of extrusion tooling.
 - Fertilizers and animal feed: a source of calcium, pH control and a carrier for micronutrients.
- Construction: synthetic marble and wall fillers.

Reference color: White

Listed mesh sizes: 200, 325, 400, 635, 1000 and 3000

INDUSTRIAL MINERALS

Calcined kaolin



Digitally generated illustrative image. Appearance and particle size may vary.

Aluminum silicate treated at high temperature.

TYPICAL APPLICATIONS

- Paints, varnishes and coatings: coverage, opacity, whiteness, reflectance and abrasion resistance; titanium dioxide extender.
- Plastics and rubber: electrical resistivity in wires and cables, mechanical strength, dimensional stability and flow properties.
- Other applications: paper, high-strength concrete and sealants.

Reference color: White and cream

Listed mesh sizes: 200, 325, 400, 550 and 635

INDUSTRIAL MINERALS

Hydrated kaolin



Digitally generated illustrative image. Appearance and particle size may vary.

Hydrated aluminum silicate rich in kaolinite, with refractoriness, low hardness and high whiteness.

TYPICAL APPLICATIONS

- Paints and coatings: coverage, opacity, dispersion and a soft finish; titanium dioxide extension.
- Plastics and rubber: mechanical properties, dimensional stability, flow properties and reduced extrusion wear.
- Fertilizers, crop protection products and animal feed: a carrier for micronutrients. Ceramics and refractories: plasticity, moldability and strength before and after firing.
- Other applications: mortars, cosmetics and glass.

Reference color: White and cream

Listed mesh sizes: 60, 200, 325, 400, 550 and 635

INDUSTRIAL MINERALS

Dolomite



Digitally generated illustrative image. Appearance and particle size may vary.

Calcium magnesium carbonate with low absorption, low hardness and high whiteness.

TYPICAL APPLICATIONS

- Paints, varnishes and coatings: coverage, opacity, dispersion and washability; titanium dioxide extender.
- Plastics and rubber: improved mechanical properties, dimensional stability and reduced extrusion wear.
- Fertilizers and animal feed: a source of calcium and magnesium, pH control and a carrier for micronutrients.

Reference color: White

Listed mesh sizes: 200, 325, 400, 635, 1000 and 3000

INDUSTRIAL MINERALS

Mica powder



Digitally generated illustrative image. Appearance and particle size may vary.

Hydrated potassium aluminum silicate with a lamellar, flexible and soft structure, luster and electrical properties.

TYPICAL APPLICATIONS

- Paints and coatings: coverage, opacity, water and corrosion barrier, durability, and a satin or metallic finish.
- Fire-protection coatings: contribution to a protective barrier. Plastics: reduced permeability to liquids and gases.
- Other applications: lubricants, insulating papers, mold release agents, acoustic and thermal coatings, electrodes, pigments, cosmetics and adhesives.

Particle size and other specifications: on request.

INDUSTRIAL MINERALS

Mica flakes



Digitally generated illustrative image. Appearance and particle size may vary.

Hydrated potassium aluminum silicate with a lamellar structure, flexibility, luster and dielectric properties.

TYPICAL APPLICATIONS

- Insulating papers: dielectric and thermal resistance. Automotive coatings: acoustic and thermal insulation.
- Drilling fluids: lost-circulation control in porous or fractured rock.
- Textured coatings and mortars: decorative sparkle. Coated electrodes: contribution to maintaining the electric arc.
- Other applications: lubricants, mold release agents, plastics, refractory paints, pigments, cosmetics and adhesives.

Reference color: Pearly silver

Particle size / form: 4.0 and 6.0 mm flakes

INDUSTRIAL MINERALS

Aluminum silicate



Digitally generated illustrative image. Appearance and particle size may vary.

Hydrated aluminum silicate from the clay family, with refractoriness, low hardness and high whiteness.

TYPICAL APPLICATIONS

- Paints and coatings: coverage, opacity, easy dispersion and uniform film formation; titanium dioxide extender.
- Plastics and rubber: mechanical properties, dimensional stability, flow properties and durability.
- Fertilizers, crop protection products and animal feed: a carrier for micronutrients. Ceramics and refractories: plasticity, strength and moldability.
- Other applications: mortars, adhesives and sealants.

Reference color: White and cream

Listed mesh sizes: 60, 200, 325, 400, 550 and 635

INDUSTRIAL MINERALS

Barium sulfate



Digitally generated illustrative image. Appearance and particle size may vary.

Material with high density, low hardness, low solubility and chemical inertness.

TYPICAL APPLICATIONS

- Paints, varnishes and pigments: coverage, opacity, whiteness and pigment extension; weighting filler and contribution to water resistance.
- Automotive parts: high-density filler in friction materials and injection-molded polyurethanes.
- Oil and gas drilling fluids: weighting, pressure control and support for wellbore stability and cleaning.

Reference color: White and cream

Listed mesh sizes: 200, 325, 400, 500 and 635

INDUSTRIAL MINERALS

Talc



Digitally generated illustrative image. Appearance and particle size may vary.

Hydrated magnesium silicate with low hardness, a greasy feel and pearly luster; it provides absorption, chemical inertness and refractoriness.

TYPICAL APPLICATIONS

- Paper: softness, coverage, whiteness and ink receptivity. Pulp: absorption of oils and grease.
- Animal feed: use in pellets to limit water loss and hardening.
- Other applications: lubricants, mold release agents, cosmetics, adhesives, plastics, rubber, fertilizers, crop protection products, paints, ceramics and refractories.

Reference color: White and cream

Listed mesh sizes: 200, 325, 400, 550 and 635

INDUSTRIAL FIBERS

Cellulose fibers



Digitally generated illustrative image. Appearance and particle size may vary.

Pure or pre-dispersed fibers, long or ground into powder, depending on the supplier product line.

TYPICAL APPLICATIONS

- Friction materials, plastics and electrodes: structure, cohesion and reinforcement. Adhesives and sealing compounds: strength, adhesion and flexibility.
- Asphalt laminates and coatings: contribution to thermal and acoustic insulation.
- Drilling fluids: lost-circulation control in porous or fractured rock.
- Mortars, textured coatings and grouts: water retention, workability, viscosity, adhesion and drying control.

Reference color: Gray and white

Product form: Long or ground fibers; specifications on request

INDUSTRIAL CHEMICALS

Calcium chloride dihydrate 74%



Digitally generated illustrative image. Appearance and particle size may vary.

White, hygroscopic, fast-dissolving technical-grade calcium chloride. Formula: $\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$. CAS: 10035-04-8.

TYPICAL APPLICATIONS

- Oil and gas: drilling-fluid additive and well-completion applications.
- Industrial brines: concentration, density and compatibility selected according to project requirements.
- Other applications listed in the technical data sheet: dust control, road stabilization, deicing, concrete acceleration and wastewater treatment.

Reference color: White

Product form: Powder, as quoted; particle size on request

Specification: nominal content 74%; minimum 74% according to the TDS. pH 7.5 to 11.0. Packaging: 25 kg bags or 1,000 kg bulk bags, subject to commercial confirmation.

FBM reference data sheet: Calcium Chloride Dihydrate 74%. Lot acceptance according to the Certificate of Analysis.

INDUSTRIAL CHEMICALS

Caustic soda flakes 98%



Digitally generated illustrative image. Appearance and particle size may vary.

White, hygroscopic, water-soluble solid sodium hydroxide, commercial grade 98%. Formula: NaOH. CAS: 1310-73-2.

TYPICAL APPLICATIONS

- Chemical processes: alkalizing agent, neutralization and pH adjustment in industrial processes.
- Process applications requiring a strong base, subject to technical evaluation.
- Technical data sheet and safety documentation available for product evaluation.

Reference color: White

Product form: Flakes of irregular shape and size

Specification: commercial grade 98%; minimum total alkalinity 97.50%. Packaging: 25 kg bags.

Transport: UN 1823, Class 8, Packing Group II. Corrosive product; consult the applicable SDS before handling.

Commercial grade and specification limit are distinct. Lot acceptance according to the Certificate of Analysis.

METALS AND METAL POWDERS

Magnesium metal



Digitally generated illustrative image. Appearance and particle size may vary.

Metal with the chemical symbol Mg, offered in this commercial product line in powder form. It belongs to the metals and metal powders category.

TYPICAL APPLICATIONS

- Metal alloys: industrial applications using magnesium as an alloying element.
- Metallurgy: industrial uses of magnesium in metal production processes.
- Materials research: evaluation of industrial applications according to the product technical documentation.

Reference color: Silver-gray, illustrative

Product form: Metal powder; commercial and technical documentation on request

General commercial presentation. This is not a specification for a particular technical grade or approval for a specific application. Consult the SDS before handling.

General reference: USGS, Magnesium Statistics and Information.

INDUSTRIAL SOLUTIONS

Industry applications

DRILLING FLUIDS • OIL AND GAS

Barite / barytes, bentonite, calcium carbonate / calcite, cellulose fibers and mica flakes are among the raw material options for weighting, viscosity enhancement and lost-circulation control.

Selection depends on the formulation, well conditions and technical requirements of the operation.

The portfolio also includes calcium chloride dihydrate 74% for drilling and completion fluids, and caustic soda flakes 98% for alkalization and pH adjustment, subject to process evaluation.

MORTARS AND CONSTRUCTION

Cellulose fibers, mica flakes and mortar additives can contribute to water control, workability, viscosity, adhesion and finish.

CHEMICALS AND INDUSTRIAL PROCESSES

Calcium chloride and caustic soda complement the minerals and fibers range for industrial applications. FBM coordinates commercial inquiries, documentation review and supply options according to each customer's needs.

CONSTRUCTION

Mortar additive



Digitally generated illustrative image; it does not represent a commercial lot or packaging.

An additive described in the reference documentation as an alternative for full or partial replacement of cellulose ethers, such as MHPC, CMC and MHEC, depending on the performance required in the formulation.

TYPICAL PROPERTIES AND USES

- Water retention for cement or gypsum hydration; control of consistency, viscosity and open time.
- Air entrainment, workability and plasticity; retarding effect on setting time.
- Adhesion, pull-off strength, reduced tile slip and reduced rebound.
- Viscosity and sedimentation control during pumping. Applications in mortars, grouts, textured coatings, glues and adhesives.

Product form, specifications, availability and packaging on commercial inquiry. Validation should consider the formulation and performance testing.

COMMERCIAL CONTACT

Request a quotation

Tell us about your raw material requirements. FBM Group LLC supports supplier connections and commercial coordination of the operation.

TO EXPEDITE YOUR INQUIRY

Product and application

Product name, industry and intended use.

Technical specification

Particle size, composition, properties and required documentation.

Quantity and packaging

Estimated volume, purchasing frequency and preferred product form.

Destination and timing

Delivery location, expected lead time and preferred commercial terms.

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ABOUT THIS CATALOG

Technical content summarized from reference product documentation. Calcium chloride and caustic soda: FBM technical data sheets for Calcium Chloride Dihydrate 74% and Caustic Soda Flakes 98%. Digital illustrations are not linked to a specific lot, brand or packaging.

FBM provides sourcing and commercial coordination and does not claim ownership of the supplier's manufacturing operations, industrial facilities or certifications. Application information does not replace technical data sheets, validation tests or product approval for a specific use. Availability, packaging, specifications and commercial terms are confirmed in the quotation.