



## MAGNESIUM

Specialties include oxides, chloride, sulfates and other derivatives. Product line offers a variety of chemistries and physical properties to meet a multitude of industrial applications worldwide. Available in different forms such as pellets, granules, fine powders, crystals or in a liquid solution.

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## MAGNESIUM OXIDE

High Purity Magnesium Oxide products vary in physical properties such as particle size and reactivity. These products are available as light burned and dead burned forms. Specialty grades also available upon request.

### Light Burned

Caustic Calcined Magnesia 'CCM'

MgCO<sub>3</sub> calcined about 750°C CO<sub>2</sub> + MgO

Light burned magnesium oxide is a reactive grade that has been calcined at temperatures ranging from 700°C – 1000°C. High purity light burned magnesium oxide products are available in a wide range of reactivities and are used in a applications to assist with drying, modifying and stabilizing soils, waste streams and sediments in a variety of markets. Products vary in physical properties such as particle size and reactivity, and based on regional availability.

### Dead Burned

Dead Burned Magnesia 'DBM'

MgCO<sub>3</sub> calcined about 1800°C CO<sub>2</sub> + MgO

Dead burned magnesium oxide has been calcined at temperatures ranging from 1500°C – 2000°C in a high temperature shaft kiln, which yields a high purity material with very little reactivity and high density. These products are well suited in the manufacture of magnesia refractory bricks, monolithic gunning refractories, specialty refractory applications (precast shapes and castables), LCD glass, drilling fluids and cements, and other applications.

## DOLOMITIC LIME

### Calcium Magnesium Carbonate (Dolomite)

Used primarily as a fluxing agent in steelmaking, in addition to soil stabilization and other applications such as fiberglass. We offer a range of pulverized dolomite or ground calcium carbonate products granular, pebble and midsizes (0.5 to 1.5-inch)

## MAGNESIUM SULFATE

### Magnesium Sulfate, Heptahydrate (Epsom Salt)

Technical Grade - Mg 9.8%, S 12.9%.

Our epsom salt is extremely versatile and offers many advantages. Quick acting magnesium & sulfur fertilizer, It is low in secondary salts and heavy metals, fully water soluble, color-neutral even under oxidizing conditions, is less corrosive than other salts, in particular chlorides, and economical mag panels.

### Magnesium Sulfate, Anhydrous

Anhydrous magnesium sulfate is commonly used as a desiccant in organic synthesis owing to its affinity for water and compatibility with most organic compounds. Also used in the production of thermoplastics such as ABS plastics (acrylonitrile butadiene styrene) or EPS (Expandierfähiges Polystyrol), lower corrosion level compared to other salts.

## MAGNESIUM CHLORIDE

Magnesium chloride is used in a variety of applications ranging from, the formulation of abrasives, the manufacture of Sorel cement for industrial ("spark-free") flooring, as a catalyst in textile finishing processes, deicing, the treatment of sewage and industrial effluents, special fertilizer mixture and animal feed mixes.

### Magnesium Chloride, Technical Grade

This product is intended for a variety of industrial applications. Waste water treatment processes. Freeze conditioning of coal, in textile manufacture, thread lubricant and a filling in cotton and wool fabrics, weighting fluid, refrigerating brine and a cooling solution for drilling tools, fire extinguishing media and fire-proofing of wood and production of ceramics and cements.

### Magnesium Chloride, Hexahydrate

Magnesium chloride flakes and pellets, also known as magnesium chloride hexahydrate, is a versatile chemical compound that can be used as a stabilizer, dust control and de-icing agent on roads.

## MAGNESIUM ACETATES

The most common use of this compound is as a source of magnesium for various chemical reactions such as dyeing of ceramic tiles and textile, catalyst in polyester film production and resins and in off-set printing. Additionally, this chemical is extensively used in fertilizers, medicine, food processing, cosmetics and other compound composition. It also acts as an anti-microbial in various material.

Magnesium Acetate Powder is available in both its anhydrous and tetrahydrate form.

## MAGNESIUM STEARATES

Magnesium Stearate provides various functionalities to the formulations since it has lubricating, water-repellent, anti-flake, and release properties which attribute it to the products that are made with it. Used in paint, plastics, rubber, textiles, and other industries, mainly as an emulsifier, mold release agent, lubricant, stabilizer (in PVC production), accelerator, cosmetic base material, and as a component or lubricant in the production of pharmaceuticals and cosmetics. Also as an oxidant additive for oxo-biodegradable polymers (for example, high-density polyethylene). Available in both powder and dispersion 50%.

## MAGNESIUM SILICATES

Magnesium-Silicate is a flux for low and high fire glazes. Ideal for traditional, refractory and technical ceramic applications. Traditional applications include: wall /floor tiles, tableware, sanitaryware, electrical insulators and porcelain.

## SYNTHETIC MAGNESIUM SILICATES

Unlike natural magnesium silicates like talc, forsterite, and olivine which are crystalline, synthetic magnesium silicates are amorphous. Synthetic magnesium silicates are insoluble in water or alcohol. The particles are usually porous, and the BET surface area can range from less than 100 m<sup>2</sup>/g to several hundred m<sup>2</sup>/g. The very large active surface makes synthetic magnesium silicate useful for a wide variety of applications: purifying adsorbent (polyols, animal and vegetable oils, chromatography, dry cleaning, sugar, resins, odors); filler (rubber, ceramics, paper, glass, refractories); anti-caking agent (salt); catalyst; catalyst carrier and filter medium.

## DOLOMITIC LIMESTONE

Dolomitic quicklime is used for specific purposes, like making steel or in some environmental applications, because its higher magnesium content offers benefits such as a longer refractory lining life in steel furnaces or more effective desulfurization of flue gas. High-calcium quicklime is used when a higher concentration of pure calcium is required.

## MAGNESIUM METAL

Magnesium metal is a versatile and lightweight metal with a wide range of applications. It is an essential component in many industries and is obtained from natural sources. Magnesium is utilized in a variety of applications, including

- Alloying: It is added to other metals, such as aluminum, to enhance their strength, lightness, and corrosion resistance.
- Structural Materials: Magnesium alloys are employed in aircraft, spacecraft, automobiles, and other lightweight structures.
- Electronics: Magnesium is used in batteries, electronic components, and heat sinks.
- Chemical Manufacturing: It serves as a reducing agent in the production of other metals, such as titanium.

## MAGNESITE

Magnesite is used as a refractory material, a catalyst and filler in the production of synthetic rubber, breaklinings, mould fauces in steel and a material in the preparation of magnesium chemicals and fertilizers. The mineral magnesium carbonate (MgCO<sub>3</sub>), is a member of the calcite group of carbonate minerals that is a principal source of magnesium. The mineral has formed as an alteration product from magnesium-rich rocks or through the action of magnesium-containing solutions upon calcite.



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ASG Chemical Holdings, LLC • Bulk Chemicals and Specialty Performance Materials • [www.asgchemie.com](http://www.asgchemie.com)  
2603 NW 13th St. #231 Gainesville, FL 32609 • **Main** : 352.432.1481 • **Fax** : 352.430.7442 • **Toll Free** : 1.833.ASG.CHEM (274-2436)

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