



MAGNESIUM

Our magnesium product line includes oxides, chlorides, sulphates, and other derivatives. The product range offers diverse chemistries and physical properties tailored to meet a wide range of industrial applications worldwide.

MAGNESIUM OXIDE

Synthetic high purity magnesium oxide products vary in physical properties such as particle size and reactivity. These products are available as light burned, hard burned and dead burned. Specialty grades also available upon request.

Light Burned

Caustic Calcined Magnesia 'CCM' MgCO_3 calcined at about 1000°C (1800°F) $\rightarrow \text{CO}_2 + \text{MgO}$

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 wide variety of applications. We offer a variety of distributed products 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 may vary based on regional availability.

Dead Burned

Dead Burned Magnesia 'DBM' MgCO_3 calcined at about 1800°C (or 3200°F) $\text{CO}_2 + \text{MgO}$

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, cements, and other applications.

DOLOMITIC LIME

Calcium Magnesium Carbonate (CaO-MgO)

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 limestone or ground calcium carbonate products designed for numerous applications and are available in various packaging formats including bulk, super-sacks, and bags in granular, pebble, and midsize forms.

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. It is a quick-acting magnesium and sulphur fertiliser. It contains low levels of secondary salts and heavy metals, is fully water-soluble, colour-neutral even under oxidising conditions, and is less corrosive than other salts—particularly chlorides.

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, including abrasive formulation, the manufacture of Sorel cement (for industrial spark-free flooring), de-icing, textile finishing, sewage treatment, fertiliser blends, and animal feed.

Magnesium Chloride, Technical Grade

This product is intended for a variety of industrial applications. It is suitable for wastewater treatment, freeze conditioning of coal, textile manufacturing (as a thread lubricant and fabric filler), refrigerating brines, drilling tool coolants, and fireproofing wood or producing ceramics and cements.

Magnesium Chloride, Hexahydrate

Magnesium chloride flakes, 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

Magnesium Acetate Powder

This compound is commonly used as a source of magnesium for reactions such as dyeing ceramic tiles and textiles, catalysing polyester film production and resins, and in offset printing. It is also used in fertilisers, medicine, food processing, cosmetics, and other compounds. Additionally, it acts as a bactericidal agent in various formulations.

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

Magnesium Stearate Powder and Dispersion 50%

Magnesium Stearate provides lubricating, water-repellent, anti-flaking, and release properties. It is used in paints, plastics, rubber, textiles, and cosmetics—primarily as an emulsifier, mould-release agent, stabiliser (especially in PVC), and a lubricant in pharmaceutical production. Available in powder or 50% dispersion form.

MAGNESIUM SILICATES

Magnesium Silicate

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

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, with BET surface areas ranging from under 100 m²/g to several hundred m²/g. Their large active surface area makes them ideal for applications such as purifying adsorbents (polyols, oils, chromatography), fillers (rubber, ceramics), anticaking agents, catalysts, and filter media.



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