



MgO

Magnesium Oxide



PRODUCT DESCRIPTION

Magnesium oxide's reactivity is set by its calcination temperature, and that single variable determines what it is good for. Lightly burned MgO reacts quickly and buffers pH; hard-burned MgO reacts slowly and controls expansion in cement. Specifying the right grade matters more with this material than with almost anything else we supply.

TYPICAL SPECIFICATIONS

PROPERTY	VALUE	BASIS
Chemical formula	MgO	Per standard
Grades available	Light-burned · Hard-burned	Typical
MgO content	90% minimum typical	Typical
Appearance	White to buff powder	Typical
Loss on ignition	5.0% maximum typical	Typical
Fineness, passing 200 mesh	90% minimum typical	Typical

PRINCIPAL INDUSTRIAL APPLICATIONS



Cementing & Concrete

Expansive additive that compensates for shrinkage in cement systems, and a pH buffer in specialty cementing formulations.



Wastewater Treatment

Neutralizes acidic effluent and precipitates heavy metals with less risk of pH overshoot than caustic soda.



Agriculture & Feed

Magnesium supplement in animal feed rations and a soil amendment for magnesium-deficient ground.

PACKAGING & AVAILABILITY

- 50 lb bags

HANDLING & STORAGE

Mild irritant; avoid dust inhalation and eye contact. Store dry — MgO slowly hydrates and carbonates on exposure to air, reducing reactivity.

A Safety Data Sheet (SDS) is available for this product on request and should be reviewed before handling.

ORDERING & TECHNICAL SUPPORT

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IMPORTANT NOTICE

The information in this data sheet is provided in good faith and is believed accurate at the date of issue. Values marked "Typical" represent commercial norms and are not a specification; the certificate of analysis for your specific shipment governs. Values marked "Per standard" are requirements of the cited standard. Mix Minerals makes no warranty, express or implied, regarding suitability for any particular application. The user is responsible for determining suitability and for safe handling in accordance with the applicable Safety Data Sheet.