

HYDRATED LIME

DRY POWDERED CALCIUM HYDROXIDE



PRODUCT INFORMATION

Typical Ranges

High Calcium Hydrated Lime

Chemistry

94.0 – 97.0% $\text{Ca}(\text{OH})_2$

Sizing

92-97% Passing 325 Mesh

Dolomitic Hydrated Lime

Chemistry

55.5 – 58.5% $\text{Ca}(\text{OH})_2$

38.5-41.5% $\text{Mg}(\text{OH})_2$

Sizing

85-90% Passing 325 Mesh

Product specifications vary by location. For the product typicals for a specific location, please contact us at: salesinquiries@carmeuse.com

Hydrated lime, chemically known as calcium hydroxide ($\text{Ca}(\text{OH})_2$), or slaked lime, is a dry white powder derived from quicklime. Hydrated lime ($\text{Ca}(\text{OH})_2$) is produced when quicklime (CaO) is mixed with a carefully controlled amount of water. This process produces a dry calcium hydroxide product that is nearly free of moisture and, as a result, is easy to handle and store.

WHY HYDRATED LIME?

Hydrated lime does not need to be slaked and therefore does not create an exothermic reaction when mixed with water. There are applications in which the use of hydrated lime would be superior to using quicklime. Slurry produced by hydrated lime has a higher rate of reaction in some applications than slurry produced by quicklime which means that it is possible that less hydrated lime is necessary.

Carmeuse hydrated lime is available as a dry bulk or bagged product and is used in a variety of industrial applications including flue gas treatment, water treatment, steelmaking, construction, and others.

PRODUCT BENEFITS

- Consistent high purity to get critical performance for every ton
- Releases very little exothermic heat when in contact with water making it easier and safer to use in certain applications, when compared to high calcium quicklime or caustic soda
- Various grades available to meet to your specific needs
- Delivered onsite and ready-to-use

HYDRATED LIME

HIGH CALCIUM HYDRATED LIME

Slurry produced from high calcium hydrated lime often requires slightly less material on an equivalent CaO basis compared to slurries produced from high calcium quicklime. This is due to superior particle size distributions and surface area of the Ca(OH)₂ particles in suspension. This efficiency improvement varies depending on the end use.

DOLOMITIC HYDRATED LIME: TYPE S AND TYPE SA

Carmeuse also produces Type S and Type SA dolomitic hydrates, which are derived from dolomitic quicklime containing magnesium oxide. Unlike Type N dolomitic hydrates, Type S and SA are pressure hydrated, meaning that the hydration reaction happens under high pressure atmospheres to drive nearly all magnesium oxide to also hydrate. A key distinction between Type S and Type SA is the maximum air content of cement-lime mortars. When made with Types SA hydrated lime, the maximum air content is 14%; with Types S hydrated lime, 7%.

- Type S or “special hydrated lime” is used in various industrial applications, agricultural applications, and within building materials like mortar. Carmeuse brand names for this product include Miracle Morta-Lok® and Miracle Lime-Cote®.
- Type SA Lime or “special air-entraining hydrated lime” is a hydrated lime that is suitable for use in mortar, in scratch & brown coats of cement plaster, stucco, and addition to Portland-cement concrete. The Carmeuse brand name for this product is Miracle E-Z Spread®.

Carmeuse is your trusted partner from source to solution with our End-2-End Services offering providing raw materials, freight & logistics support, and lime handling systems. Every step of the way, we go above and beyond to make things simple for our customers and we have the expertise to help in whatever you may need from choosing the correct raw material to maintaining your lime system.

PLEASE CONTACT US VIA EMAIL OR PHONE AND WE CAN RECOMMEND A PRODUCT TO BEST MEET YOUR NEEDS.

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CARMEUSE

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PRODUCT LOCATIONS

USA

LONGVIEW OPERATION
Saginaw, Alabama

MACON OPERATION
Macon, Georgia

BLACK RIVER OPERATION
Butler, Kentucky

PELICAN TERMINAL
Baton Rouge, Louisiana

ANNVILLE OPERATION
Annville, Pennsylvania

LUTTRELL OPERATION
Luttrell, Tennessee

STRASBURG OPERATION
Strasburg, Virginia

MANITOWOC OPERATION
Manitowoc, Wisconsin

CANADA

BEACHVILLE OPERATION
Ingersoll, Ontario

For a full listing of products
available at each location:

VISIT OUR WEBSITE

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