

# SPECIALTY PRODUCTS

## CUSTOMIZED LIME AND LIMESTONE PRODUCTS



### PRODUCT INFORMATION

#### Typical Ranges

#### FUSITE

36.3% MgO

LOI 0.3%

Mesh Sizes: 3 x 6; 6 x 10; 10 x 20

#### DOLOPEL

35-45% MgO

LOI 0.58%

Bulk Density (g/L) 3.28%

#### Magnesium Enhanced Lime

3-6% MgO

Mesh Sizes: 2 x 0; 2.5 x 0

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

Certain applications in steelmaking and flue gas treatment require specialized lime and limestone products. For these instances, Carmeuse can provide specialty products to suit the customer's needs including FUSITE, DOLOPEL, and Magnesium Enhanced Lime (MEL). Many of the products' characteristics are customized based on the needs of the application including composition, particle sizing and packaging.

### FUSITE

Fusite is a granular dolomitic refractory material made of both magnesium oxide and calcium oxide, which is iron infused during the manufacturing process, and then can be coated with oil to obtain specific performance characteristics. Fusite is used in "ramming" and patching mixes for coating the furnace to protect the refractory and extend its life. The additional iron and oil helps with sintering so that the Fusite sticks (or "fuses") to the refractory. Also used in the hearth, Fusite can be tamped into the bottom of the furnace as a "banking material" to manage wear. Carmeuse quarries and sizes raw materials to exact specifications, along with obtaining the added materials from quality resources.

- Optimize refractory performance
- Extend the life of your refractory
- Increased productivity and output
- Dust control

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## DOLOPEL

Dolopel is a dead-burned dolomitic quicklime that is mixed with a variety of other raw materials, including iron oxide, to produce a product that has high strength and heat durability. It is primarily used as a filler in the manufacturing of refractory bricks. The refractory bricks are then used as a lining to retard the heat from penetrating and damaging outer shells of steel ladles, furnaces, and kilns. Dolopel can also be used for soil amendment in agricultural applications. Dead-burned dolomitic quicklime is stone that is calcined (fired) at higher temperatures to process all of the stone into oxide. When this occurs, it is less chemically reactive due to "over-firing" and no longer reacts with water, thus the term "dead-burned." Dead-burned dolomitic quicklime is also added to the steel bath to prevent magnesium from being pulled from the refractory bricks, thus reducing breakdown and extending the brick's life.

- Improves refractory performance
- Extends refractory life
- Burned within a high tolerance to offer physical and chemical consistency

## MAGNESIUM ENHANCED LIME (MEL)

Magnesium enhanced lime plays a critical role in keeping coal-fired boilers in compliance with environmental regulations. It is used in wet flue gas desulphurization (FGD) to reduce sulfur dioxide and other acid gases. MEL is derived from a high calcium limestone that is naturally higher in magnesium content, but not enough to be classified as dolomite. Additionally, this limestone is unique in that the calcium and magnesium are not bonded together, as is the case in typical dolomitic limestone. This particular chemistry allows use within a specifically designed wet FGD system where the separated calcium magnesium enhances sulfur dioxide scrubbing.

- Improves fuel flexibility
- Reduction in absorber recirculation power, reagent and equipment costs due to increased efficiency in acid capture
- Prevents the gypsum scaling in essential equipment
- Easier start-up and faster reaction to load changes because magnesium acts as a buffer
- Decreased plume opacity

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.**

**[salesinquiries@carmeuse.com](mailto:salesinquiries@carmeuse.com)**

**1-866-780-0974**

## PRODUCT LOCATIONS

\_\_\_\_\_ FUSITE \_\_\_\_\_  
MILLERSVILLE OPERATION  
Millersville, Ohio

\_\_\_\_\_ DOLOPEL \_\_\_\_\_  
DUNDAS OPERATION  
Dundas, Ontario

\_\_\_\_\_ MEL \_\_\_\_\_  
MAYSVILLE OPERATION  
Maysville, Kentucky

For a full listing of products available at each location:  
**VISIT OUR WEBSITE**

All data shown is for illustration purposes only. Actual product specifications can vary based on several different factors. Carmeuse does not warrant or guarantee the accuracy of the above-referenced data, and will not be liable for any loss or damage arising out of the use thereof. The information contained herein is offered for the user's consideration, examination, and determination of suitability.

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## CARMEUSE

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