



# Quicklime

Ste. Genevieve, MO  
Calcium Oxide

## TECHNICAL DATA SHEET

### Product Description

MLC™ Quicklime is a calcium oxide produced and sold in several pebble sizes. Quicklime is used in flue gas desulphurization, soil stabilization, water and wastewater treatment, steel, paper, chemical, and environmental applications.

#### Typical Chemical Properties

CaO – Available	95%
CaO - Total	98.0%
Carbon Dioxide (CO <sub>2</sub> )	0.8%
LOI	1.3%
Magnesium Oxide (MgO)	0.8%
Alumina (Al <sub>2</sub> O <sub>3</sub> )	0.2%
Iron (Fe <sub>2</sub> O <sub>3</sub> )	0.1%
Silica (SiO <sub>2</sub> )	0.8%
Sulfur (S)	0.04%
Phosphorus Oxide (P <sub>2</sub> O <sub>5</sub> )	170 ppm
Manganese Oxide (MnO)	30 ppm

#### Typical Physical Properties

Specific Gravity	3.3
pH	12.45
BET Surface Area	2.0 m <sup>2</sup> /g
Apparent Dry Bulk Density – Loose	50 lbs./ft <sup>3</sup>
Apparent Dry Bulk Density - Packed	60 lbs./ft <sup>3</sup>
Reactivity 30 sec.	26 °C
Reactivity 180 sec.	48 °C
Total Temperature Rise	52 °C
Total Reactivity Time	360 sec
Reactivity: 30 Mesh Residue	2.0%

#### Product Size Graduation

½"	Top 7/8" Bottom 3/8"
1"	Top 1 1/4" Bottom 7/8"
2" X 1"	Top 2 3/8" Bottom 7/8"
2"	Top 2 3/8" Bottom 1 1/4"

### Available Certifications

- ✓ AWWA Standard: B202-19
- ✓ ASTM Standard: C977-18, C911-19, and C5-18



Certified to  
NSF/ANSI/CAN 60

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