GRAYMONT

Lime and Limestone products
Central Region Office, 200-215 North Main Street, West Bend, WI 53095, United States. 1 800 433-0036

2000 - HIGH CALCIUM HYDRATED LIME

Nominal size: 20 µm – 0

Green Bay, Wisconsin

PRODUCT DESCRIPTION

A fine white powder made by reacting quicklime with sufficient water to convert the calcium oxide (CaO) to calcium hydroxide ($Ca(OH)_2$).

TYPICAL CHEMICAL PROPERTIES
(ASTM C25, C1271, C1301)

Total Calcium expressed as $Ca(OH)_2$ (%)	92.5
Avail. Calcium Hydroxide ($Ca(OH)_2$) (%)	92.3
Magnesium Oxide (MgO) (%)	2.3
Silica (SiO_2) (%)	1.6
Ferric Oxide (Fe_2O_3) (%)	0.2
Alumina (Al_2O_3) (%)	0.4
Manganese Oxide (MnO) (ppm)	< 50
Total Sulfur (S) (%)	0.05
Loss on ignition (%)	24.7
Calcium Carbonate ($CaCO_3$) (%)	4.3
Moisture (H_2O) (%)	1.1

TYPICAL PHYSICAL PROPERTIES
(ASTM C110)

Bulk Density	
▲ Loose / Packed, (kg/m^3)	280 / 451
▲ Loose / Packed, (lb/ft^3)	17 / 28
Residue retained on a 600-µm sieve (%)	0
Residue retained on a 75-µm sieve (%)	0.2
Angle of Internal Friction, Φ (°)	51.9
BET Surface Area (m^2/g)	18.0
Pore Size (Å)	190
Pore Volume (cm^3/g)	0.090
Volume Mean Diameter, D[4,3] (µm)	8.7
Diameter at 50%, Median, DV50 (µm)	7.5

CLASSICAL REFERENCE DATA
(CRC Handbook of Chemistry and Physics, Boynton)

Specific Gravity	2.3 – 2.4
Solubility in Water (20 °C) (g/l)	1.65
pH (saturated solution) (25 °C)	12.454
Decomposition Temperature (°C)	580
Hardness (Mohs)	2 – 3
Specific Heat (0 °C) (cal/g*°C)	0.27
Heat of Solution (18 °C) (cal/mole)	2800

LASER PARTICLE SIZE DISTRIBUTION
(Mode: Wet Dispersion, Format: Volume)

Diameter (µm)	% Passing
45	100
32	100
25	98
20	95
10	66
5	30

CLASSIFIED UL WATER QUALITY

ANSI / NSF 60
DRINKING WATER TREATMENT ADDITIVES
< 2 M 90 >
MAXIMUM USE LEVEL: 650 mg/l.

Meets the AWWA standard B202-19

NOTICE

The test data herein is based on average results on production samples. Product shipments are subject to normal variation. Accordingly, test data cannot be taken as establishing maximum or minimum specifications.
Product Codes: 2000 (Bulk), 2108 (1000lb Bags), 2110 (1200lb Bags), 2111 (1350lb Bags), 2113 (1500lb Bags), 2117 (750lb Bags).