GRAYMONT

TECHNICAL DATA SHEET

HIGH CALCIUM QUICKLIME

Nominal size: 0 – 2.50 mm

PRODUCT DESCRIPTION

A white porous solid obtained by the calcination of high-purity limestone ($CaCO_3$) and composed essentially of calcium oxide (CaO).

TYPICAL CHEMICAL PROPERTIES
(ASTM C25, C1271, C1301)

Total Calcium Oxide (CaO) (%)	95.7
Available Calcium Oxide (CaO) (%)	92.8
Magnesium Oxide (MgO) (%)	1.0
Silica (SiO_2) (%)	1.6
Ferric Oxide (Fe_2O_3) (%)	0.2
Alumina (Al_2O_3) (%)	0.4
Manganese Oxide (MnO) (ppm)	175
Total Sulfur (S) (%)	0.08
Loss on ignition (%)	1.0
Calcium Carbonate ($CaCO_3$) (%)	1.0

TYPICAL PHYSICAL PROPERTIES
(ASTM C110, AWWA B202)

Bulk Density	
▲ Loose / Packed, (kg/m^3)	973 – 1295
▲ Loose / Packed, (lb/ft^3)	61 – 81
Slaking Rate	
▲ Temperature Rise in 30 sec (°C)	31
▲ Temperature Rise in 3 min (°C)	50
▲ Total Temperature Rise (°C)	54
▲ Total Active Slaking Time (min)	5.5

CLASSICAL REFERENCE DATA
(CRC Handbook of Chemistry and Physics)

Specific Gravity	3.25 – 3.38
Solubility in Water (10 °C) (g/l)	1.31
pH (saturated solution) (25 °C)	12.454
Melting point (°C)	2613
Hardness (Mohs)	2 – 3
Specific Heat (0 °C) (cal/g*°C)	0.17
Heat of solution (cal/g)	844 – 847

SIZE DISTRIBUTION
(ASTM MNL32)

Sieve (mm)	Sieve (U.S.A.) *	% Passing
4.0	No. 5	100
3.15	No. 6	100
2.50	No. 8	97
1.25	No. 16	83
0.630	No. 30	70
0.315	No. 50	58
0.160	No. 100	42

CLASSIFIED UL WATER QUALITY

ANSI / NSF 60
DRINKING WATER TREATMENT CHEMICAL
< 44 Y 4 >
MAXIMUM USE LEVEL: 500 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 Code: 1152 (Bulk)

*These sieves correspond approximately to those of the metric series.