



**Lime and Limestone products**

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**TYPICAL ANALYSIS SHEET**

**PRODUCT :** HIGH CALCIUM HYDRATED LIME

**PRODUCTION FACILITY :** Pleasant Gap, Pennsylvania

**PRODUCT DESCRIPTION :**

A fine white powder made by reacting quicklime with sufficient water to convert the calcium oxide (CaO) to calcium hydroxide (Ca(OH)<sub>2</sub>).

**COMPOSITION AND TYPICAL CHEMICAL PROPERTIES : (ASTM C 25, C 1271, C 1301)**

Available Lime Index as Calcium Hydroxide (Ca(OH) <sub>2</sub> ), (%)	94.3
Total Calcium as Calcium Oxide (CaO), (%)	73.0
Available Lime index as calcium oxide (CaO), (%)	71.5
Magnesium Oxide (MgO), (%)	0.8
Silica (SiO <sub>2</sub> ), (%)	1.2
Ferric Oxide (Fe <sub>2</sub> O <sub>3</sub> ), (%)	0.2
Alumina (Al <sub>2</sub> O <sub>3</sub> ), (%)	0.4
Total Sulfur (S), (%)	0.02
Loss on Ignition, (%)	24.0
Carbonates (CaCO <sub>3</sub> ), (%)	2.0
Moisture (H <sub>2</sub> O), (%)	0.5
Neutralizing value (CaCO <sub>3</sub> = 100), (%)	132

**TYPICAL PHYSICAL PROPERTIES :**

Bulk Density (ASTM C 110), (kg/m <sup>3</sup> )	330 – 600
(lbs/ft <sup>3</sup> )	21 – 37
Blaine Specific Surface (ASTM C 204), (cm <sup>2</sup> /g)	29100

**CLASSICAL REFERENCE DATA : (CRC Handbook of Chemistry and Physics)**

Specific Gravity	2.24
Solubility in Water (0 °C), (g/l)	1.85
pH (saturated solution) (25 °C)	12.454

**SIZE DISTRIBUTION :**

<u>SIEVE (mm.)</u>	<u>SIEVE (U.S.A.)</u>	<u>% PASSING</u>
0.250	N° 60	100
0.150	N° 100	97 – 100
0.075	N° 200	95 – 100
0.045	N° 325	90 – 100

**NOTICE :**

\* The test data herein is based on average results on production samples. Product shipments are subject to normal variation. Accordingly, test data can not be taken as establishing maximum or minimum specifications.



ANSI / NSF 60  
 DRINKING WATER TREATMENT ADDITIVE  
 < 88 Y 5 >  
 MAXIMUM USE LEVEL: 650 mg/l.