



PRODUCT DATA SHEET

PURE HYDRATED LIME

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Description: Pale brown high quality lime in powder form.

Other Names: Slaked lime, Calcium hydroxide.


Chemical Formula: Ca(OH)_2

Typical chemical analysis:

Available lime as CaO	67% - 69% (Minimum 67%)
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Loss Free Analysis:

Ca (OH) ₂ as CaO	70 %
MgO	2.8%
SiO ₂	2.0%
Fe ₂ O ₃	0.3%
Al ₂ O ₃	0.3%
Mn ₂ O ₃	1.0%
SO ₃	900 ppm
P ₂ O ₅	200 ppm
CO ₂ (CaCO ₃)	1.7%
1000° C Ignition loss	23.0%
Acid insolubles	1.3%
Free moisture	0.7%
Non slakeables	approx. 8%.



Physical characteristics:

Particle size: percentage remaining on sieved (Max.)

850 μm - 0 %
600 μm - < 0.5 %
75 μm - < 30 %

General Expansion Soundness factor: < 30

Bulk density (Aerated)	496 Kg/m ³	400 Kg/m ³ – 550 Kg/m ³
(Settled)	600 Kg/m ³	600 Kg/m ³ – 700 Kg/m ³

Storage:

Hydrated lime is a fine powder, and should be stored in bins or silos and kept dry. "Shelf-life" is moderate, and the product should not be kept in storage for long periods before use.

Safety:

Hydrated lime is a strong caustic alkali and should be handled with care. Avoid excessive contact with skin; the use of eye protection, respirators and gloves is required when handling this product (see Material safety data sheet).

Applications:

1. Neutralization of acids in aqueous processes.
2. Water purification and softening.
3. A causticizing agent in chemical processes.
4. A source of calcium for various chemical products.
5. Soil stabilization (conforms to SABS 824: 2006)
6. Liming and plumping of hides before leather tanning.