Hydrated calcium or dolomitic lime shall consist of a dry powder obtained by treating quicklime with enough water to satisfy the chemical affinity for water under the conditions of hydration.

Hydrated lime shall meet the following requirements:

Calcium and Magnesium Oxide
(nonvolatile basis) Min %…….93
*Determined on ignited sample

Carbon Dioxide, as received basis,
Max % if sampled at place of manufacture……...5
Max % if sampled at any other place…….7

Free Water or Mechanical Moisture as received basis,
Max % if sampled at place of manufacture……1.0
Max % if sampled at any other place…….1.5

The maximum accumulative percent by weight of residue retained shall conform to the following requirements:

No. 6 (3.35 mm) sieve.....…….0.0%
No. 20 (850 m) sieve.....…...1.0%
No. 100 (150 m) sieve.....……15.0%

Hydrated lime shall be sampled according to SD 502.

The properties enumerated above shall be tested in accordance with the following:

Chemical Tests: .....…… ASTM C 25
Physical Tests: .....…… ASTM C 110**

**Modified to use only the No. 6, No. 20 and No. 100 (3.35 mm, 850 m, and 150 m) sieves.

Lime shall be stored and handled in closed weatherproof containers until immediately before distribution on the project. When storage bins are used, they shall be completely enclosed. Lime furnished in bags shall be stored in weatherproof buildings with protection from ground dampness.

When lime is furnished in trucks, each truck shall have the weight of lime certified on public scales or the Contractor shall provide a set of standard platform truck scales or hopper scales approved by the Engineer.

When lime is furnished in bags, each bag shall designate the weight, type of material and name of manufacturer.

Bags varying more than five percent from the certified weight may be rejected. The average weight of bags in any shipment, as shown by weighing 50 bags taken at random, shall not be less than the manufacturer's certified weight.