

## HYDRATED LIME



Hydrated lime  $\text{Ca(OH)}_2$  is a dry powder produced by combining quicklime with a sufficient amount of water to satisfy the quicklime's natural affinity for moisture. The process converts  $\text{CaO}$  to  $\text{Ca(OH)}_2$ . The amount of water required depends on both the particular characteristics of the quicklime and the type of hydrating equipment available.

We suggest our clients to use High Grade Hydrated Lime as it gives various advantages over Low Grade. The advantages of using high purity Hydrated Lime V/s Low purity are enlisted to make our esteemed customers aware of the real fact.

# SHASHI MINERALS

Jodhpur India

hy/01/2016

- 1) REDUCED REACTION TIME: The rate of chemical reaction depends upon the degree of purity of the Chemical being used. Higher the purity, lesser would be the reaction time.
  - 2) REDUCED CONSUMPTION: By Quantitative Analysis it is established that 1 M.T. of 90% grade Hydrated Lime is equivalent to 1.378 M.T. of 65% purity Grade . Thus there is a reduction of 37.8% in consumption.
  - 3)REDUCED HANDLING COST: By using this high purity material, handling charges inclusive manpower can be reduced by 37% due to reduction in consumption . This is a direct saving in labour cost by the same proportion.
  - 4) REDUCED TRANSPORTATION COST: Total transportation cost for carrying Low Grade (65% Purity) Hydrated Lime = Cost of Carrying 65% Pure material + Cost of Carrying 35% impure material. Total transportation Cost for carrying High Grade (90% Purity) Hydrated Lime = Cost of carrying 90% Pure material +Cost of carrying 10% impure material. Thus it's clear that with same transportation Cost 25% more pure material / utilizable material can be transported.
  - 5) LESS STORAGE SPACE : As there will be reduction in consumption ,less Godown space would be required for storage purpose, there by, reducing storage problem & Inventory cost.
  - 6) MINIMIZED DISPOSAL PROBLEM : Due to less consumption less sludge would be generated, resulting in reduced disposal cost.
- It is evident from above facts that by using High-grade Hydrated Lime containing higher percentage of Calcium Hydroxide (90%) , the consumption can be reduced by around 38% , there by minimizing the storage and sludge disposal problem. Ultimately resulting in Over all Cost Reduction by 40 % to 45%

Product specifications-

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Percentage						
Specification	93%	90%	85%	80%	75%	70%
Appearance	Brilliant white	Snow white	White	White	White	White
Av. Ca(OH) <sub>2</sub>	93.0 ± 0.50	90.0 ± 0.50	+ 85.0	+80.0	+75.0	+70.0
Moisture %	0.50 ± 0.20	0.70 ± 0.20	0.40 ± 0.15	0.40 ± 0.15	0.25	0.30
Magnesium (Mgo)	0.70 ± 0.20	0.80 ± 0.20	0.90 ± 0.30	1.05 ± 0.40	1.80 ± 0.50	2.90
Acid Insoluble (SiO) <sub>2</sub>	0.20 ± 0.05	0.50 ± 0.05	1.25 ± 0.20	1.5 ± 0.20	5.0 ± 1.0	7.0
Particular size Mesh size	(BSS 300) (-) 98 %	(BSS 200) (-) 95 %	(BSS 200) (-) 90 %	(BSS 100) (-) 95 %	(BSS 100) (-) 95 %	(BSS 100) (-) 95 %

**Packaging** - The material is normally packed in New / Sound HDPE bags. The material may also be packed as per user's specific requirements.