CHEMEMAN AUSTRALIA PTY LTD
61 Carpentaria Link, Hope Valley WA 6165
ABN 73 134 283 060

PRODUCT DATA SHEET	# HYDRATED LIME

PRODUCT DESCRIPTION

Hydrated Lime is a dry powder obtained by treating Quicklime with enough water to satisfy its chemical affinity for water.

Chememan's Hydrated Lime is ground & air classified to produce a fine white power. Air classification also removes contaminants that are normally found in Quicklime.

PROCESSING OF LIME

Lime is one of man's oldest and most vital chemicals and is often confused with limestone, from which it is derived. Quicklime is manufactured by calcining high-quality limestone at elevated temperatures, which causes volatilizing of nearly half of the stone's weight as carbon dioxide. Hydrated Lime, in turn, is produced by reacting Quicklime with enough water to form a dry white powder. Reactions are as follows:

1. Limestone + Heat (>800°C) = Calcium Oxide + Carbon Dioxide

   $CaCO_3$ + Heat = $CaO+CO_2$

2. Quicklime + Water = Calcium Hydroxide + Heat

   $CaO+H_2O$ = $Ca(OH)_2$

Chememan's Hydrated Lime is produced from quicklime which is entirely produced in modern shaft kilns and rotary kilns using high-purity limestone from its own quarry as the only raw material.

SUPPLY

Chememan's Hydrated Lime is available in powder forms. Our products are delivered to customers' sites in pneumatic bulk tankers or 0.8 - 1.0 MT bulk bags.

STANDARDS AND CERTIFICATION

Chememan's Hydrated Lime is a high purity Lime complying with Australian Standard AS 4489-1997 Test Methods for Limes and Limestone.

All products are manufactured under a third-party certified manufacturing and supply quality assurance system to ISO 9001:2000 (SGS Certification No TH05/0564QM).

SAFETY INFORMATION

Hydrated Lime is alkaline and should be handled with some caution. Prolonged exposure can cause drying or chapping of the skin. Care should be taken to ensure that lime does not come into contact with the eyes.

If Hydrated Lime is to be handled in a way that workers may encounter dust, it is recommended that they wear securely fitted safety goggles, filter masks and protective clothing. For more information refer to the Safety Data Sheet for Hydrated Lime.

HANDLING AND STORAGE

Lime is used in various forms in a large number of diversified industries. Where daily requirements are small, it is recommended to use bagged lime due to its relatively easier handling and storage to prevent ingress of moisture. In suitable (dry) storage, bagged hydrated lime may be stored for periods of up to one year without serious deterioration.

In facilities that consume a high amount of lime. Bulk lime is more efficient and economical to use. The lime is usually handled by mechanical or pneumatic conveying systems, discharging to weather-tight bins or silos.

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Chemical Analysis	Method	Units	Typical	Specification
Available $Ca(OH)_2$	ASTM C-25	%	93.95	92% min
MgO	XRF	%	0.48	2.0% max
SiO_2	XRF	%	0.55	1.0% max
Al_2O_3	XRF	%	0.15	0.3% max
Fe_2O_3	XRF	%	0.09	0.2% max

Sieve Analysis (ASTM C110)	Sieve		Units	Cumulative Retained	
	Mesh	µm		Typical	Specification
	200	75	%	1.56	10% max

Colour	White
Moisture Content	1.0% max
Bulk Density	450 – 650 kg/m^3

For further information, please contact:

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