DATSON
BUILDING MATERIALS

Technical Datasheet

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Hydrated Lime
DBM-HBN

Product Features

Hydrated lime is a high-purity material primarily composed of calcium hydroxide ($Ca(OH)_2$), offering excellent reactivity and consistent quality. Its fine particle size ensures efficient performance in construction, industrial, and environmental applications. Eco-friendly and non-toxic, it supports sustainable practices and safe usage across various sectors.

Packaging Information

Hydrated lime is available in 20 Kg bags inside jumbo bags of 1 MT. All jumbo bags are designed for easy handling, storage, and transportation, ensuring the product remains dry and protected from moisture. For big quantity orders, delivery in bulk (for loading on vessel) is also possible.

Technical Specifications

Chemical Analysis	
Ca(OH)2 %	>90
CaCO3 (%)	<4
SiO2 (%)	<0.4
K2O (%)	<0.1
Na2O (%)	<0.1
Fe2O3 (%)	<0.3
Moisture (%)	<0.7
CaO (Free) %	<1.3
MgO (%)	<0.9
Al2O3 (%)	<0.4
MnO (%)	<0.02
P2O5 (%)	<0.2
SO3 (%)	Trace
LOI (%)	19-24

Physical and other Properties	
Molecular Mass	74.08 g/mol
Density	400-600 kg/m³
Hardness	2-3 Mohs
Solubility in Water	0.0015 g/100 water
Special Weight	2.2 - 2.4 g/ml
Hardness 2	3.0 Mohs at 40°C
Boiling Point	Not applicable
Melting Point	Not applicable
pH (at 1.53 g/L at 25°C, saturated solı	11.5 - 12.5

Application and Usage

Hydrated lime is used in different industries some of which are listed in below;

>> Construction: Hydrated lime is used in mortars, plasters, and whitewashing to improve strength, durability, and workability in construction projects.

>> Water Treatment: It plays a crucial role in treating water by neutralizing acidity, removing impurities, and controlling pH levels to ensure safe and clean water.

>> Agriculture: As a soil conditioner, hydrated lime adjusts soil pH levels, enhances fertility, and improves crop yield in farming practices.

>> Environmental Applications: Widely used in flue gas desulfurization to reduce harmful emissions and in neutralizing acidic industrial waste for safe disposal.

>> Chemical Industry: Hydrated lime is essential in producing calcium-based compounds, refining processes, and maintaining pH balance in various chemical reactions.

>> Food and Beverage: Used in sugar refining and certain food processing methods to ensure purity and quality standards.

Safety Data

Hydrated lime can cause irritation to the skin, eyes, and respiratory system. It is important to wear protective gear such as gloves, goggles, and a mask in dusty environments. In case of eye contact, rinse with water and seek medical help. For skin contact, wash thoroughly with soap and water. If inhaled, move to fresh air and seek medical attention if needed. Store hydrated lime in a cool, dry place, away from moisture, and keep containers sealed.

Product Variants

Hydrated lime is available in various forms to meet the requirements of different industries. These variants are designed to provide flexibility and efficiency in applications ranging from construction and water treatment to agriculture and industrial processes. Whether in fine powder or other specialized forms, hydrated lime ensures adaptability to diverse operational needs, offering reliable performance across multiple sectors.

Warranty

DATSON Building Materials warrants that the product supplied meets the specified quality and performance standards as outlined in this datasheet. We guarantee that the material is free from defects in manufacturing and workmanship. For warranty claims, please retain proof of purchase and contact our customer service team.

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