CAPITALY ENTERPRISES

كابيتالي للمشاريع

PART OF AL ASEMA GROUP

CR NO. 56974

Technical Data Sheet

Hydrated Lime (Calcium Hydroxide)

PRODUCT CODE **CAP-HLM-CPT-STD-B25**	CLASSIFICATION **High-calcium hydrated lime**	REFERENCE STANDARD **Reference: EN 459-1 (calcium lime, hydrate) / ASTM C207**
SUPPLIER **Capitaly Enterprises, Qatar**	ISSUE DATE **10 August 2026**	REVISION **01**

PHYSICAL PROPERTIES

PROPERTY	UNIT	RESULT	STANDARD
Fineness, residue on 90 micron	%	**< 10** †	—
Fineness, residue on 200 micron	%	**< 2** †	—
Loose bulk density	kg/m³	**450 - 600** †	—
Free moisture	%	**< 2** †	—
pH, saturated solution at 20°C	—	**12.4** †	—
Shelf life, sealed bag	months	**12** †	—

CHEMICAL COMPOSITION

CONSTITUENT	SYMBOL	UNIT	RESULT	STANDARD
Calcium hydroxide	$Ca(OH)_2$	%	**90 - 94**	—
Calcium oxide (CaO equivalent)	CaO	%	**70.10**	—
Quartz (crystalline silica)	SiO_2	%	**0.86**	—
Aluminium oxide	Al_2O_3	%	**0.62**	—
Magnesium oxide	MgO	%	**< 1**	—
Iron oxide	Fe_2O_3	%	**0.17**	—
Other impurities	—	%	**< 1**	—
Carbon dioxide	CO_2	%	**< 5** †	—

† *Typical value, characteristic of the material. Not a certified test result for an individual consignment. A certificate of analysis for a specific consignment is issued on request.*

APPLICATIONS

- Cement : lime : sand mortars and renders - improves workability and water retention
- Lime wash and traditional breathable finishes
- Soil stabilisation and road subgrade treatment
- Water and wastewater treatment, pH correction
- Flue gas treatment
- Agriculture - soil acidity regulation
- Asphalt mixtures as an anti-stripping additive

This data sheet reflects test results supplied by the manufacturer named herein and is given in good faith. It does not constitute a specification or a warranty of performance, and material characteristics may vary between consignments. Users are responsible for verifying suitability for their intended application and for compliance with project specifications. Certificates of analysis for a specific consignment are issued on request.

PACKING AND SUPPLY

- 25 kg bag
- Jumbo bag (FIBC)

HANDLING AND STORAGE

- Store under cover, clear of the ground, in dry and well-ventilated conditions.
- Keep bags sealed until use. Protect from moisture and direct weather exposure.
- Rotate stock on a first-in, first-out basis.
- Refer to the Safety Data Sheet for personal protective equipment and first-aid measures before handling.

TECHNICAL NOTES

Calcium hydroxide content of 90-94% is consistent with the high-calcium classification range of EN 459-1 CL 90-S. Formal conformity is not certified by the supplier and the product is not offered as CE-marked to that standard.

The reported CaO figure of 70.10% is the calcium oxide equivalent of the calcium hydroxide content, not free lime.

Non-hydraulic. Not suitable for use in mortar without cement present.

Alkaline. Wet material can cause severe skin and eye burns. See Safety Data Sheet before handling.

Source of test data: Manufacturer's test certificate, held on file with Capitaly Enterprises.

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