CAPITALY ENTERPRISES

كابيتالي للمشاريع

PART OF AL ASEMA GROUP

CR NO. 56974

Technical Data Sheet

Quick Lime Powder (Calcium Oxide)

PRODUCT CODE
CAP-QLM-CPT-M200-B25

CLASSIFICATION
High-calcium quicklime, fine ground

REFERENCE STANDARD
Reference: EN 459-1 (calcium lime, quicklime)

SUPPLIER
Capitaly Enterprises, Qatar

ISSUE DATE
10 August 2026

REVISION
01

PHYSICAL PROPERTIES

PROPERTY	UNIT	RESULT	STANDARD
Fineness, fine powder	—	**90% passing 90 micron**	—
Reactivity - initial temperature	°C	**23**	—
Reactivity - after 1 minute	°C	**80**	—
Reactivity - peak, 2 to 4 minutes	°C	**96**	—
Reactivity - after 10 minutes	°C	**80**	—
Reactivity - after 60 minutes	°C	**49**	—
Loose bulk density	kg/m³	**800 - 1000** †	—
Reactivity classification	—	**Highly reactive, t60 under 1 min** †	EN 459-2

CHEMICAL COMPOSITION

CONSTITUENT	SYMBOL	UNIT	RESULT	STANDARD
Calcium oxide	CaO	%	**92.5 ± 2**	—
Magnesium oxide	MgO	%	**1.00**	max
Silicon dioxide	SiO_2	%	**0.3 - 0.8**	—
Iron oxide	Fe_2O_3	%	**0.10**	max
Sulphur	S	%	**0.03**	max
Loss on ignition at 1000°C	LOI	%	**2.5 ± 0.5**	—
Available lime as CaO	CaO	%	**≥ 88** †	—
Carbon dioxide	CO_2	%	**< 2** †	—

† *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

- Soil stabilisation and subgrade treatment
- Water and wastewater treatment, pH correction
- Flue gas desulphurisation
- Steel and metallurgical fluxing
- Autoclaved aerated concrete and calcium silicate products
- Manufacture of hydrated lime and precipitated calcium carbonate
- Paper, sugar and chemical process industries

CAPITALY ENTERPRISES | Offices: Mesaieed Industrial Zone, P.O. Box 3147, Doha - Qatar

Tel +974 3303 4227 · 4442 3777 | info@capitaly.net | www.capitaly.net

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)
- Bulk

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

> Reactivity test conditions: 150 g quicklime powder in 600 ml water at 20°C, mesh 200. Temperature passes 60°C within the first minute, indicating a highly reactive, soft-burnt product.

> Reacts vigorously and exothermically with water. See Safety Data Sheet before handling.

> Store dry and sealed. Quicklime absorbs atmospheric moisture and carbon dioxide and loses reactivity in open storage.

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

CAPITALY ENTERPRISES | Offices: Mesaieed Industrial Zone, P.O. Box 3147, Doha - Qatar
Tel +974 3303 4227 · 4442 3777 | info@capitaly.net | www.capitaly.net

CAP-QLM-CPT-M200-B25 • Rev 01 • 10 August 2026
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.