Quicklime and Hydrated Calcium Lime

CL 80-Q, CL 80-S and CL 90-S

LIME

An Experienced Lime Manufacturer

With an annual production capacity of 55,000 tonnes of quicklime and 22,000 tonnes of hydrated lime, Entegre is one of Türkiye's leading lime producers and has served the Turkish construction industry for over 45 years. Premium-quality Entegre Lime is produced from limestone with a purity of 98%. Limestone extracted from Entegre's licensed quarry is crushed and screened to obtain the particle sizes suitable for use in lime kilns. The limestone is calcined in Maerz-type kilns to produce quicklime, which is then converted into hydrated lime in a modern hydration unit. This premium-quality calcium lime, certified by TSE and bearing the CE marking, is packaged at the packaging facility in accordance with TS EN 459-1 and offered for sale in 25 kg PP and kraft paper bags.

Areas of Use

Environmental Protection

- Drinking and service water treatment
- Wastewater treatment
- Flue gas desulphurization
- Acid neutralisation.

Chemical and Pharmaceutical Industries

- Sugar refining
- Pharmaceutical production
- Toothpaste
- Oil and petroleum additives
- Calcium carbide production
- Resin production
- Plastics production.

Industrial Processes

- Metallurgy
- Paper industry
- Paint industry
- Rubber industry
- Steel industry.

Building Materials Production

- Construction adhesives
- Insulation materials
- Aerated concrete
- Plasterboard
- Aluminate-modified cement
- Refractory materials.

Liability: Above stated data obtained in lab conditions. Entegre will not be liable for any defect in product occurring by reason of events or conditions not within its control such as misuse, mishandling, improper storage or improper installation. Entegre reserves the right to revise the information contained herein without prior notice.

Hüseyinli Mah. Beykoz Cad. No: 222/4 Çekmeköy - İstanbul
+90 (0216) 434 50 96
export@entegreharc.com.tr

Construction Industry

- Road stabilization
- Mortars
- Plasters and renders.

Technical Data

Calcium Quicklime (CL-80-Q)

Parameters	TS EN 459-1 Standard Values
CaO+MgO (%)	Min 80
MgO (%)	Max 5
CO2 (%)	Max 7
SO3 (%)	Max 2
Yield, L/kg	Min 2.6
Soundness (mm)	Max 20
Reactivity (R5) (t60), min	Max 10
Available lime (CaO) (%)	Min 65

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Hydrated Calcium Lime (CL-80-S)

Parameters	TS EN 459-1 Standard Values
CaO+MgO (%)	Min 80
MgO (%)	Max 5
CO2 (%)	Max 7
SO3 (%)	Max 2
Free water (%)	Max 2
Air content (%)	Max 12
Penetration (mm)	10 < x < 50
Dry bulk density (g/L)	Max 600
Sieve residue (%) 200 µm	Max 2
Sieve residue (%) 90 µm	Max 7
Soundness (mm)	Max 20
Loss on ignition (%)	Max 28
Available lime (Ca(OH)2) (%)	Min 65

Hydrated Calcium Lime (CL-90-S)

Parameters	TS EN 459-1 Standard Values
CaO+MgO (%)	Min 90
MgO (%)	Max 5
CO2 (%)	Max 4
SO3 (%)	Max 2
Free water (%)	Max 2
Air content (%)	Max 12
Penetration (mm)	10 < x < 50
Dry bulk density (g/L)	Max 460
Sieve residue (%) 200 µm	Max 0,1
Sieve residue (%) 90 µm	Max 7
Soundness (mm)	Max 20
Loss on ignition (%)	Max 28
Available lime (Ca(OH)2) (%)	Min 80

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Recommendations for Using Hydrated Lime

Coarse Plaster Preparation (with CL-80-S)

Prepare by mixing 7 bags of Entegre Hydrated Lime with 200 L of water and 1 m^3 of sand.

Fine Plaster Preparation (with CL-80-S)

Mix 7 bags of Entegre Hydrated Lime with 150 L of water and 1 m^3 of sand. After 2 hours, add 3–4 bags of cement and 100 L of water, then mix to prepare.

Limewash Preparation (with CL-90-S)

Prepare by adding 75 L of water to 1 bag of hydrated lime.

Certificate of Conformity

TS EN 459-1 / October 2015

Packaging

CL-80-Q (lump quicklime): supplied in bulk by truck.

CL-80-S and CL-90-S (hydrated lime): supplied in bulk by silo tanker or in 25 kg bags, either loose-loaded or palletized.

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