

Product Data Sheet

Calcined Limestone (Quicklime)

Description

Description	Calcined Limestone (Quicklime, CaO) is produced by calcining high-purity limestone at high temperature to drive off carbon dioxide, yielding a reactive calcium oxide product. This ultra-low-sulphur grade is supplied in 10-60mm lump size, suited to steelmaking flux, flue gas desulphurisation and other applications demanding consistent lime quality.
Applications	Steelmaking flux – slag formation and desulphurisation/dephosphorisation aid Flue gas desulphurisation (FGD) – SOx scrubbing in power plants and industrial flue gas treatment Water and wastewater treatment – pH adjustment and coagulation aid Construction, soil stabilisation and chemical manufacturing (calcium carbide, precipitated calcium carbonate)
Grade	Ultra Low Sulphur (ULS) Grade
CAS No.	1305-78-8

Key Benefits

1. High CaO content supporting strong, consistent chemical reactivity
2. Ultra-low sulphur content suited to sulphur-sensitive steelmaking and FGD applications
3. Consistent 10-60mm lump size supporting reliable furnace charging and material handling
4. Low silica, iron and alumina impurity levels supporting clean process chemistry

Chemical Analysis & Physical Data

Typical Specification

Parameter	Test Method	Unit	Specification
Calcium Oxide (CaO)	Titration Method	wt%	94% Min.
Silicon Dioxide (SiO ₂)	XRF Method	wt%	1% Max.
Magnesium Oxide (MgO)	XRF Method	wt%	1.5% Max.
Iron Oxide (Fe ₂ O ₃)	XRF Method	wt%	0.15% Max.
Aluminium Oxide (Al ₂ O ₃)	XRF Method	wt%	0.15% Max.
Sulphur (Ultra Low)	Combustion/ Titration Method	wt%	0.05% Max.
Size	Sieve Analysis	mm	10 – 60
Appearance	Visual	–	White to off-white lumps

Packaging

Packaging 25 kg / 50 kg Moisture-Proof Bags
1,000 kg Jumbo Bags (FIBC, moisture-proof liner)
Bulk (bulker truck/vessel) available on request for large orders

Storage & Handling

1. Store in a dry, covered warehouse – product reacts vigorously and exothermically with moisture
2. Keep bags sealed until point of use to prevent moisture pickup and premature slaking
3. Keep away from water, acids and organic materials
4. Handle per corrosive-material precautions – see accompanying MSDS before storage/handling decisions are finalised

Quality Assurance

1. Every batch is tested against the specification above before dispatch
2. A batch-specific Certificate of Analysis (COA) accompanies each shipment, reporting CaO content, sulphur and size distribution against this TDS
3. COA available on request prior to shipment for buyer pre-approval
4. Third-party inspection (SGS/Intertek) can be arranged on request for regulated-market shipments

Disclaimer: The information provided in this document is based on our current knowledge and is intended as a general guide. Ochnology Solution Pvt. Ltd. reserves the right to modify specifications without prior notice. Buyers are advised to conduct their own testing for specific applications. A batch-specific Certificate of Analysis (COA) is available on request for each shipment.