

## Weißeinkalk CL 90-Q (R5, P1) White fine quicklime CL 90-Q (R5, P1)

**Märker Weißeinkalk** (Ground white fine quicklime) is produced from natural Jurassic limestone that is softly burned at temperatures below the sintering temperature and then finely ground and air-classified.

**Properties:** Generation of heat by reaction with water/moisture, thereby chemical conversion into hydrated lime  
Increase of the pH-value due to the alcalic property of the main chemical component calcium oxide

**Applications:** Various application possibilities, for example in the:

- Iron and steel production
- Sand lime brick production
- Aerated concrete production
- Building materials industry
- Leather production
- Sugar industry
- Paper and pulp production
- Water treatment (adjustment of water hardness by softening or hardening)
- Wastewater treatment (precipitation and flocculation of metal ions, separation of sulfate, chloride, fluoride, phosphate)
- Chemical industry or galvanic processes as lye or for neutralization in chemical processes
- Conditioning of sludge (industry, ponds, sewage treatment plants...)
- Stabilization and reconstruction of subsoil and embankments
- Earthworks and traffic route construction industry for the reduction of moisture before soil consolidation measures and for soil consolidation and improvement according to the German ZTV E-StB.
- Preparation of clayey rocks

The use of Märker White Fine Lime in soil stabilization leads to better consolidation / compaction through crumbling and reduction of the water content, thus increasing the bearing capacity of soils. Expensive soil replacement can thus usually be avoided.

Märker White Fine Lime is particularly suitable for fine-grained and mixed-grained soils. In order to achieve the required properties reliably and economically, the optimum composition must be determined by an initial test in good time before the start of the construction work.

Recommendation: Further information can be obtained from the German ZTV E-StB and the current FGSV data sheets.

Various other applications are possible - please contact us!

**Processing:** When processing Märker Weißeinkalk, avoid contact with skin and eyes. The wearing of suitable protective clothing is mandatory

- Standards:** fine quicklime CL 90-Q (R5, P1) according to EN 459 (building lime)  
Weißfeinkalk according to EN 12518 (Chemicals used for treatment of water intended for human consumption - High-calcium lime)
- Quality control:** In-house production control and external monitoring by the institut for Kalk- und Mörtelforschung e. V., Köln
- Supply:** bulk in silo trucks  
packed in 25 kg bags (42 bags on a palette)  
available in Harburg (south of Germany)
- Storage:** Märker Weißfeinkalk should be stored dry, protected from moisture and damp air.

<b>Type analysis:</b>	CaO + MgO	≥ 92 %
	MgO	≤ 7 %
	SiO <sub>2</sub>	≤ 3 %
	Fe <sub>2</sub> O <sub>3</sub>	≤ 0.5 %
	Al <sub>2</sub> O <sub>3</sub>	≤ 1 %
	SO <sub>3</sub>	≤ 0.4%
	Water soluble CaO	≥ 85 %
	<b>Physical data:</b>	Bulk density
	Sieve residue at 0.09 mm	≤ 7 %
	Wet slaking activity t <sub>60</sub>	≤ 3 min

Please refer to our current safety data sheets according to EC Regulation No. 1907/2006 for tips on handling our products. Any information, product descriptions or technical data provided in this publication is without warranty and any liability is excluded. The values in our data sheets are average values based on numerous measurements.

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