

Weikalkhydrat CL 90-S Hydrated lime CL 90-S

Märker Weikalkhydrat (White hydrated lime) is produced from natural Jurassic limestone that is softly burned at temperatures below the sintering temperature and then finely ground and air-classified.

Märker Weikalkhydrat is produced by dry-slaking of the ground white fine lime followed by air-classifying.

Properties: The main chemical component of Märker Weikalkhydrat is calcium hydroxide. This has a strongly basic effect, the pH-value is 12.4. It is therefore suitable for increasing the pH-value or for neutralizing acids. Calcium hydroxide forms chemical compounds with many substances that are difficult to dissolve, which is used in separation and precipitation reactions.

Applications: Various application possibilities, for example in the:

- Production of ready-mixed dry mortar (high surface and fineness result in increased suppleness and thus better pumpability of the fresh mortar and faster application to the wall)
- Lime plaster production
- Building materials industry
- Color composition
- Air purification for cleaning flue gases (chemical bonding of acidic components such as hydrogen fluoride, hydrogen chloride and sulfur dioxide)
- Water treatment (adjustment of water hardness by softening or hardening)
- Wastewater treatment (precipitation and flocculation of metal ions, separation of sulfate, chloride, fluoride, phosphate, reduces odor nuisance, adjustment of the pH-value)
- Chemical industry or galvanic processes as lye or for neutralization in chemical processes
- Agriculture to adjust the pH-value in biogas plants
- Sugar industry
- Paper and pulp production
- Conditioning of sludge (industry, ponds, sewage treatment plants...)

Many other applications are also possible - please contact us!

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

Standards: Hydrated lime according to EN 459 (building lime)

Hydrated lime 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 20 kg bags (40 bags on a palette)
available in Harburg (south of Germany)

Storage: Märker Weißkalkhydrat should be stored dry, protected from moisture and damp air.

Type analysis:	Ca(OH) ₂ + Mg(OH) ₂ calculated	≥ 90 %	
	CaO + MgO	≥ 72 %	
	MgO	≤ 5 %	
	SiO ₂	≤ 2.5 %	
	Fe ₂ O ₃	≤ 0.5 %	
	Al ₂ O ₃	≤ 1 %	
	SO ₃	≤ 0.3%	
	Physical data:	Bulk density	300 - 450 kg/m ³
		Sieve residue at 0.09 mm	≤ 2 %
Specific Surface (BET)		Approx. 20 m ² /g	

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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