

Ultrafine 12

MICROCEMENT

Ultrafine 12 is produced in Degerhamn in special mills developed for the microcement. The unique combination of the grinding process and the selected clinker results in a high penetration capacity.

With Ultrafine 12 an injection grout with excellent flow properties can be produced, even at low water cement ratios. The temperature of the grout should be at least +5°C to obtain the desired rheology, penetrability, and strength development.

Ultrafine 12 fulfills the requirements on composition for a sulfate resisting and low alkali Portland cement (SR 3) according to SS-EN 197-1 Cement-Part 1: Composition, specifications and conformity criteria for common cements and (LA) according to SS 134203 Cement-Composition, specifications and conformity criteria for low alkali common cements. On rare occasions the values may deviate from the specified ranges or limits.

Property	Value	Requirements in EN 197-1
Compact density (kg/m ³)	3100–3200	
Skrymdensitet (kg/m ³)	700 ± 200	
Specific surface (m ² /kg, BET ¹)	2200	
Particle size distribution, d ₉₅ (µm)	≤ 12	
Alkali, Na ₂ O _{ekv} (%)	0.55 ± 0,05	≤ 0.6 ²
Sulfates, SO ₃ (%)	≤ 3.0	≤ 3.0 ³
C ₃ A, clinker (%)	2.0 ± 0,7	≤ 3 ³
Chloride, Cl ⁻ (%)	0.02 ± 0.01	≤ 0.10
Water-soluble chromium Cr ⁶⁺ (PPM)	0–2	≤ 2 ⁴

¹ The very high specific surface area of Ultrafine 12 is determined using the BET method (nitrogen absorption) since the Blaine method is unreliable in this range of measurement.

² Requirements level according to SS 134203

³ Requirements level for CEM I SR 3

⁴ Clause 47 of Annex XVII of the REACH Regulations

The maximum storage period is 18 months from the date of packaging for unopened 20 kg bags and 12 months from the date of packaging for unbroken big bags.

For further information and handling of cement, see the safety data sheet.