

White Cement (Aalborg White)

CEM I 52,5 R LA



CEMENT TYPE AND CEMENT CLASS

White Cement is a Type I Portland cement imported from Denmark. It has high early (2 days) and standard (28 days) compressive strength and is used in designs with strict requirements for a white, very bright concrete. The cement is also low-alkaline. The white colour is obtained by the use of special raw materials. Technical data is on page 2 of this product sheet.

STANDARDS AND CONTROL

White Cement satisfies the requirements of SS-EN 197-1 Cement-Part 1: Composition, specifications and conformity criteria for common cements. It also satisfies the requirement for low-alkali cement (LA) according to SS 13 42 03.

White Cement is CE-marked with certificate number 1073-CPD 06209.

PACKAGING, DISTRIBUTION AND STORAGE

Delivery takes place in bulk by truck or, where possible, by rail. The cement can also be supplied in 25 kg bags from Maxit AB.

Storage in an environment that has an element of moist air or direct contact with ground moisture or water damages the cement very quickly (days, weeks). White Cement must be stored in a dry, sealed silo for a maximum of six months after delivery. Cement in bags must be stored on plastic-coated storage pallets for a maximum of six months after the packing date. It is

always the buyer's responsibility to make sure and be able to show that the storage location is dry and sealed, and that the storage time is observed.

SPECIAL PROPERTIES

Beside the white colour the cement is low-alkaline according to SS 13 42 03 and has natural low content of chromate, less than 2 ppm.

GENERAL TERMS OF DELIVERY

The delivery of White Cement is subject to ABM 92 and CEMENTA's *Special Terms and Conditions*.

SAFETY DURING HANDLING

All cement must be stored out of the reach of children and is dangerous to consume. Cement in the eyes creates a risk of serious eye damage. Moist cement forms calcium hydroxide, which irritates the skin and the respiratory organs. For complete information and instructions on protection, see the *Material Safety Data Sheet*.

PRODUCT INFORMATION

For the latest updates to the *Product Sheet*, *Material Safety Data Sheet* and *General Terms of Delivery*, see our website www.cementa.se.

TEKNISKA DATA

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White Cement complies with the data below. On rare occasions the values may deviate from the specified ranges or limits.

Physical data

Property	Guideline value	Range	Unit	Requirement	Current standard
Blaine fineness	395	± 20	m ² /kg		
Setting time	100	± 30	min	≥ 45	EN197-1
Compressive strength 1d*	21	± 3	MPa		
Compressive strength 2d*	38	± 4	MPa	≥ 30.0	EN 197-1
Compressive strength 7d*	61	± 6	MPa		
Compressive strength 28d*	74	± 4	MPa	≥ 52.5	EN 197-1
Compact density	3,150	± 30	kg/m ³		
Bulk density	1,100	± 250	kg/m ³		
Brightness	87	± 2	%		DIN 5033

* Measured in standard mortar

Chemical data

Property	Limits	Unit	Requirement	Current standard
Loss on ignition	0–1.0	%	≤ 5.0	EN 197-1
Insoluble residue	0–0.3	%	≤ 5.0	
Magnesium oxide, MgO	0.55–0.65	%	≤ 5.0	EN 197-1
Sulfates, SO ₃	1.8–2.3	%	≤ 4.0	EN 197-1
Chloride, Cl ⁻	0–0.02	%	≤ 0.10	EN 197-1
Alkali, equiv. Na ₂ O	0.2–0.3	%	≤ 0.6	SS 134204
Water-soluble Cr ⁶⁺	0–2	ppm	≤ 2 (in accordance with EG 2003/53 and KIFS 2004:6)	

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