

Product Data Sheet - 2023

AALBORG WHITE[®] cement *made in Denmark*

AALBORG WHITE[®] cement has the CE-mark and is marked as CEM I 52,5 R - SR5 and certified by Bureau Veritas Certification with the certificate no. 0615-CPR-9806. The cement and clinker are produced by Aalborg Portland A/S in Aalborg, Denmark.

Essential characteristics	Standard	Unit	Typical value ¹⁾	Confirmed Value	Requirements in EN 197-1:2011
Physical properties					
1 day strength	EN196-1	MPa	19 – 25		
2 days strength	EN196-1	MPa	36 – 44		≥ 30
7 days strength	EN196-1	MPa	54 – 66		
28 days strength	EN196-1	MPa	65 – 75		≥ 52.5
Initial setting time	EN196-3	min	130 – 170		≥ 45
Standard Consistency	EN196-3	%	30		
Soundness	EN196-3	mm	0.5		≤ 10
Fineness	EN196-6	m ² /kg	400		
Reflection	DIN 5033	%	87		
Hunter L			93		
Hunter A			-1.7		
Hunter B			3.9		
Absolute density		kg/m ³	3100		
Bulk density		kg/m ³	1070		
Heat of hydration	EN 196-9	kJ/kg	350		
Chemical properties					
C ₃ A via Bogue	ASTM C150	%	5		≤ 5
SO ₃	EN196-2	%	2.5		≤ 3.5
MgO	EN196-2	%	0.7		
Alkalies as Na ₂ O	EN196-2	%	0.2	≤ 0.4	
Cl ⁻	EN196-2	%	0.02	≤ 0.04	≤ 0.10
Loss on ignition	EN196-2	%	2.9		≤ 5.0
Insoluble residue	EN196-2	%	0.1		≤ 5.0
Water soluble Cr ⁶⁺	EN196-10	mg/kg	≤ 2		
Cement composition					
Main constituents - Clinker		% ²⁾	96		≥ 95
Minor constituents		% ²⁾	4		≤ 5
Grinding aid (TEA)		%	0.02		≤ 0.2
Calcium Sulphate		%	4		

1) For properties where there is a specified range, the probability that a value falls outside is less than 5%

2) Percentage based on the sum of main and minor constituents

Last updated: 14.09.2023, Aalborg

