

**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 <sup>1)</sup>	Confirmed Value	Requirements in EN 197-1:2011
<b>Physical properties</b>					
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 <sup>2</sup> /kg	400		
Reflection	DIN 5033	%	87		
Hunter L			93		
Hunter A			-1.7		
Hunter B			3.9		
Absolute density		kg/m <sup>3</sup>	3100		
Bulk density		kg/m <sup>3</sup>	1070		
Heat of hydration	EN 196-9	kJ/kg	350		
<b>Chemical properties</b>					
SO <sub>3</sub>	EN196-2	%	2.5		≤ 3.5
MgO	EN196-2	%	0.7		
Alkalies as Na <sub>2</sub> O	EN196-2	%	0.2	≤ 0.4	
Cl <sup>-</sup>	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 <sup>6+</sup>	EN196-10	mg/kg	≤ 2		
<b>Clinker composition - Bogue</b>					
C <sub>3</sub> S	ASTM C150	%	82		
C <sub>2</sub> S	ASTM C150	%	11		
C <sub>3</sub> A	ASTM C150	%	5		≤ 5
C <sub>4</sub> AF	ASTM C150	%	1		
<b>Cement composition</b>					
Main constituents - Clinker		% <sup>2)</sup>	96		≥ 95
Minor constituents		% <sup>2)</sup>	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: 08.03.2023, Aalborg

