

**Product Data Sheet - 2021**
**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		Typical value <sup>1)</sup>	Confirmed Value	Requirements in EN 197-1:2011
<b>Physical properties</b>				
1 day strength	MPa	21 - 27		
2 days strength	MPa	40 - 48		≥ 30
7 days strength	MPa	56 - 68		
28 days strength	MPa	68 - 78		≥ 52.5
Initial setting time	min	125 - 165		≥ 45
Standard Consistency	%	30		
Soundness	mm	0.5		≤ 10
Fineness	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>	3130		
Bulk density	kg/m <sup>3</sup>	1070		
Heat of hydration according to EN 196-9	kJ/kg	350		
<b>Chemical properties</b>				
SO <sub>3</sub>	%	2.1		≤ 3.5
MgO	%	0.7		
Alkalies as Na <sub>2</sub> O	%	0.2	≤ 0.4	
Cl <sup>-</sup>	%	0.02	≤ 0.04	≤ 0.10
Loss on ignition	%	1.2		≤ 5.0
Insoluble residue	%	0.1		≤ 5.0
Water soluble Cr <sup>6+</sup>	mg/kg	≤ 2		
<b>Clinker composition - Bogue / ASTM C150</b>				
C <sub>3</sub> S	%	77		
C <sub>2</sub> S	%	15		
C <sub>3</sub> A	%	5		≤ 5
C <sub>4</sub> AF	%	1		
<b>Cement composition</b>				
Main constituents - Clinker	% <sup>2)</sup>	100		≥ 95
Minor constituents	% <sup>2)</sup>	0		≤ 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: 19.04.2021, Aalborg

