

**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.

Essential characteristics		Typical value	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	53 - 65		
28 days strength	MPa	66 - 76		≥ 52,5
Initial setting time	min	110 - 160		≥ 45
Standard Consistency		30		
Soundness	mm	0,5		≤ 10
Fineness	m <sup>2</sup> /kg	400		
Reflection (DIN 5033)	%	85 - 89,5		
Hunter L		93		
Hunter A		-1,5		
Hunter B		4,5		
Absolute density	kg/m <sup>3</sup>	3130		
Bulk density	kg/m <sup>3</sup>	1080		
Heat of hydration according to EN 196-9	kJ/kg	340		
<b>Bogue composition - Clinker / ASTM</b>				
C <sub>3</sub> S	%	76		
C <sub>2</sub> S	%	16		
C <sub>3</sub> A	%	5		≤ 5
C <sub>4</sub> AF	%	1		
<b>Chemical properties</b>				
SO <sub>3</sub>	%	2.1		≤ 3,5
MgO	%	0.6		
Alkalies as Na <sub>2</sub> O	%		≤ 0,3	
Cl <sup>-</sup>	%		≤ 0,04	≤ 0,10
Loss on ignition	%	1.1		≤ 5,0
Insoluble residue	%	0,1		≤ 5,0
Water soluble Cr <sup>6+</sup>	mg/kg	≤ 2		

*For properties where there is a specified range of variation the probability that a value falls outside is less than 5 %*

