

Calcium Aluminate Cement

CA-670

Product Description

- CA-670 is characterized by high early strength
- Additive-free
- Good workability
- Low water demand
- Available in plastic 25kg bags
- 24-month shelf life

Chemical Composition	Unit	Typical	Min.	Max.
CaO	[%]	29	28	31
Al ₂ O ₃	[%]	70	69	
Na ₂ O	[%]			0.3
SiO ₂	[%]			0.3
Fe ₂ O ₃	[%]			0.2
MgO	[%]			0.4
Fineness (Laser Diffraction)				
-45 µm	[%]	97	95	
d50	µm	10		

The typical properties are based upon the actual averages from production data. Min/Max data show our standard product specification data.

All data are based upon Almatris standard test methods. All test methods are available upon request.

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Cement Properties in NORTAB Mortar

Water Addition : 10%				
Vicat Setting Time	Unit	Typical	Min.	Max.
Initial Set	[min]	350	300	
Final Set	[min]	375	330	460
Exothermic Reaction Time				
EXO + 5	[min]	375		
EXO Max	[min]	445		
Vibration Flow				
F10	[cm]	18	15	
F30	[cm]	18	14	
F60	[cm]	17	13	

Cold Modulus of Rupture (CMoR)	Unit	Typical	Min.
24h Cured 20°C	[MPa]	8	7
24h dried 105°C	[MPa]	11	9
5h Fired 1000°C	[MPa]	5	3
Cold Crushing Strength (CCS)			
24h Cured 20°C	[MPa]	56	45
24h dried 110°C	[MPa]	80	55
5h Fired 1000°C	[MPa]	39	25

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Shelf life

Stored under adequate dry conditions and in the original packaging, the properties of all Almatris Calcium Aluminate Cements remain stable for a period of 24 months. Experience has shown that even after longer storage time the properties are not impaired. Exposure to ultraviolet radiation from direct sun light can alter the plastic foil and ultimately reduce the shelf life. An additional protection from direct sun light is required in such cases. The shrink wrap shall remain until the material is being used. Removal of the shrink wrap reduces the shelf life of the cement in big bags.

For more detailed information on Cement Testing please refer to the brochure "Cement Test Methods".

Packaging available

25 kg plastic bags and 1 MT big bags

Contact for sales, technical information and application assistance

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