

Calcium Aluminate Cement

CA-680

Product Description

- CA-680 is a high purity Calcium Aluminate Cement with 80% alumina content
- CA-680 can be used in recipes where Mayenite would be too reactive
- CA-680 already contains additives which regulate dispersion and setting
- Good workability
- Low water demand
- Available in 25kg plastic bags, 1000kg big bag, or bulk

Chemical Composition	Unit	Typical	Min.	Max.
Al ₂ O ₃	[%]	81	79	83
CaO	[%]	18	16	19
Na ₂ O	[%]	0.7		1.0
SiO ₂	[%]	0.1		0.4
Fe ₂ O ₃	[%]	0.07		0.2
MgO	[%]	0.2		0.4
Fineness (Laser diffraction)				
-45µm	[%]	85	80	
D50	[µm]	6		

The typical properties are based upon the actual averages from production data.
All data are based upon Almatris standard test methods. All test methods are available upon request.

Calcium Aluminate Cement

CA-680

Cement Properties in NORTAB Mortar

Water addition: 10%				
Vicat Setting Time	Unit	Typical	Min.	Max.
Initial Set	[min]	110	80	
Final Set	[min]	130		180
Exothermic Reaction Time				
EXO Max	[min]	270		
Vibration Flow				
F10	[cm]	19	15	
F30	[cm]	18	15	
F60	[cm]	18	12	
Cold Modulus of Rupture (CMoR)				
24h Cured 20 °C	[MPa]	4	3	
24h Dried 105 °C	[MPa]	7	5	
5h Fired 1000 °C	[MPa]	3	2	
Cold Crushing Strength (CCS)				
24h Cured 20 °C	[MPa]	20	13	
24h Dried 105 °C	[MPa]	53	40	
5h Fired 1000 °C	[MPa]	28	18	

Standard Packaging

- 1000 kg big bags, 25 kg plastic bags, bulk

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 sunlight can alter the plastic foil and ultimately reduce the shelf life. An additional protection from direct sunlight 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.

Contact for sales, technical information and application assistance

Head Office
Almatris GmbH
Lyoner Straße 9
60528 Frankfurt/Germany

info@almatris.com
www.almatris.com

SDS 993