



Calcium Aluminate Cement

CA-670

Product Properties

- CA-670 is the newest Almatris 70% alumina cement
- CA-670 is characterized by high early strength
- Additive-free
- Good workability
- Low water demand
- Available in plastic 25 kg bags
- 24-month shelf life

Chemical Composition		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		

All data are based upon Almatris standard test methods.

The typical properties are based upon the actual averages from production data.



Cement Properties in NORTAB Mortar

Water addition: 10%				
Vicat Setting Time		Typical	Min.	Max.
Initial Set	[min]	350	300	
Final Set	[min]	375	330	460
Exothermic Reaction Time				
EX0 + 5	[min]	375		
EX0 Max	[min]	445		
Vibration Flow				
F10	[cm]	18	15	
F30	[cm]	18	14	
F60	[cm]	17	13	

Cold Modulus of Rupture (CMoR)		Typical	Min.	Max.
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)				
24 h Cured 20°C	[MPa]	56	45	
24h Dried 110°C	[MPa]	80	55	
5h Fired 1000°C	[MPa]	39	25	

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

Contacts for sales, technical information and application assistance

Almatris GmbH
Giulinistrasse 2
67065 Ludwigshafen
Germany

Phone 49 621 5707 0

Almatris B.V.
Theemsweg 30
3197KM Botlek RT
The Netherlands

Phone 31 181 2701 00

**Almatris Alumina
Private Limited**
Kankaria Estate, 2nd Floor 6,
Little Russell Street
Calcutta 700-001, India

Phone 91 33 2242 7961

Qingdao Almatris Co. Ltd.
No.1 Song Hua Jiang Road
Qingdao Economic &
Technology Development Zone
Qingdao, 266510
P.R. China

Phone 86 532 8572 8035

Almatris Limited
Morimura Bldg.
Toranomon Tower Office 13 F
1-28, Toranomon 4-chrome
Minato-ku, Tokyo 105-8451
Japan

Phone 81 3 5510 66 88

Almatris GmbH
Lyoner Strasse 9
60528 Frankfurt/Germany

info@almatris.com
www.almatris.com

Almatris, Inc.
501 West Park Road
Leetsdale, PA 15056,
USA

Phone 1 412 630 2800

Almatris do Brasil Ltda.
Avenida Jose de Souza
Campos, 243
2° Andar – Cambuí
13025-320 – Campinas,
SP – Brasil

Phone 55 19 3515-1400

