



ALMATIS

PREMIUM ALUMINA



Product Data Sheet

CA-SYNC

Calcium Aluminate Cement

Product Properties

- High purity Calcium Aluminate Cement
- Controlled hydration
- Synchronized setting & shrinkage
- Continuous strength development
- Good workability

Chemical Composition		Typical
Al ₂ O ₃	[%]	76
CaO	[%]	23
Na ₂ O	[%]	0.1
SiO ₂	[%]	0.1
Fe ₂ O ₃	[%]	0.2
MgO	[%]	0.3
Fineness (Cilas)		
-45 μm	[%]	100
d50	μm	4

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

Think alumina, think Almatris.

PP-60/R00/0820/SDS993



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Calcium Aluminate Cement

Cement Properties in NORTAB Mortar

Water addition: 10%		
Vicat Setting Time		Typical
Initial Set	[min]	380
Final Set	[min]	420
Exothermic Reaction Time		
EXO Max	[min]	520
Vibration Flow		
F10	[cm]	18
F30	[cm]	18
F60	[cm]	18
Cold Modulus of Rupture (CMoR)		
24 h Cured 20 °C	[MPa]	6
24 h Dried 105 °C	[MPa]	12
5 h Fired 1000 °C	[MPa]	6
Cold Crushing Strength (CCS)		
24 h Cured 20 °C	[MPa]	31
24 h Dried 105 °C	[MPa]	86
5 h Fired 1000 °C	[MPa]	46

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 packaging and ultimately reduce the shelf life. An additional protection from direct sunlight is required in such cases. The shrink wrap should remain until the material is being used.

Standard Packaging

25 kg plastic bags / 1 mt and 1.5 mt sling bins / bulk shipments on request

Contacts for sales, technical information and application assistance

Almatris GmbH

Giulinistrasse 2
67065 Ludwigshafen
Germany

Phone 49 621 5707 0
Fax 49 621 5707 130

Almatris B.V.

Theemsweg 30
3197KM Botlek RT
The Netherlands

Phone 31 181 2701 00
Fax 31 181 2178 53

Almatris Alumina Private Limited

Kankaria Estate, 2nd Floor
6, Little Russell Street
Calcutta 700-001, India

Phone 91 33 2242 7961
Fax 91 33 2242 1557



Almatris GmbH

Lyoner Straße 9
60528 Frankfurt/Germany

Phone 49 69 957 341 0
Fax 49 69 957 341 13

info@almatris.com
www.almatris.com

Almatris, Inc.

501 West Park Road
Leetsdale, PA 15056,
USA

Phone 1 412 630 2800
Fax 1 412 630 2900

Almatris do Brasil Ltda.

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

Phone 55 19 3515-1400
Fax 55 19 3515-1410

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