CAC80

Calcium Aluminate Cement – 80% Alumina

PRODUCT DESCRIPTION

CAC80 is a high-purity calcium aluminate cement containing approximately 80% alumina, designed as a hydraulic binder for high-performance refractory formulations.

It provides high hydration activity, strong early-age development, excellent high-temperature performance, and reliable mechanical strength. Its low impurity content and controlled mineral phase composition make CAC80 particularly suitable for demanding refractory systems, including low-cement, ultra-low-cement, and high-purity castables.

KEY FEATURES

- High alumina content of approximately 80%
- High hydration activity and early strength development
- Excellent medium- and high-temperature mechanical performance
- Low impurity content
- Good rheological properties and workability
- Suitable for deflocculated refractory castables
- Compatible with a range of additives and micropowder systems
- Suitable for vibratory, self-flowing, spreading, semi-dry and wet-spraying applications

APPLICATIONS

- Low-cement refractory castables
- Ultra-low-cement refractory castables
- High-purity refractory castables
- Monolithic refractory systems
- Vibratory and self-flowing castables
- Semi-dry and wet-sprayed refractory systems
- High-temperature applications requiring low impurity levels

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LIMITED WARRANTY INFORMATION.
PLEASE READ CAREFULLY.

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This document is subject to revision without notice as new data becomes available.

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PRODUCT SPECIFICATIONS

PARAMETER	SPECIFICATION
Al_2O_3	> 78.5%
CaO	< 21.5%
SiO_2	< 0.2%
Fe_2O_3	< 0.1%
$K_2O + Na_2O$	< 0.3%
ASTM 30 min Flow	> 60%
Blaine Fineness	> 4400 cm²/g
Initial Setting Time	> 165 min
Final Setting Time	< 300 min
Compressive Strength – 6 h	> 20 MPa
Compressive Strength – 24 h	> 35 MPa

PACKAGING
Available in standard industrial bags.

STORAGE & HANDLING
Store in a dry environment, off the ground, and protect from moisture. Keep packaging securely closed when not in use.

SHELF LIFE
12 months from delivery when stored under the recommended conditions.

SAFETY
Refer to the current Safety Data Sheet (SDS) for additional information on safe handling, storage and use.