



# DURAFAST™

CAC | CALCIUM ALUMINATE CEMENT

## DURAFAST™ CAC70

### General Information

Durafast™ CAC70 is a very reactive, light grey calcium aluminate cement that combines the high content of the reactive mono calcium aluminate phase (CA) with an optimized particle size distribution and specific surface area. The use of Durafast™ CA70 makes it possible to design castable formulations with lower cement content thus maximizing CO resistance and high temperature performance.

### Applications

- Regular Cement Castables
- Medium Cement Castables
- Low Cement Castables
- Ultra-Low Cement Castables
- Fast Setting Mortar

### Technical Data

Durafast™ CAC70 quality is strictly controlled at our production facility. The technical specifications are listed in the table below. The usual range values are representative production values.

### Chemical Composition

Component	Typical Values %
Al <sub>2</sub> O <sub>3</sub>	68.5 – 71.5
CaO	26.5 – 30.5
SiO <sub>2</sub>	<0.5
Fe <sub>2</sub> O <sub>3</sub>	<0.5
Na <sub>2</sub> O + K <sub>2</sub> O	<0.5

### Special Properties

Specific surface Area (cm<sup>2</sup>/g) >5500  
Refractoriness (OC) 1560  
Bulk density 1.4g / cm<sup>3</sup>

### Hydraulic Properties

Initial setting time: 30 (min)  
Final setting time: 360 (min)

### Mechanical Properties

Flexural Strength: 6 hours > 2.0 MPa 24 hours > 6MPa  
Compressive Strength: 6 hours >10 MPa 24 hours > 40 MPa  
1100C 24h > 55Mpa  
11000C 3h > 65Mpa



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### **Storage and shelf life**

Durafast™ CAC70 must be stored in suitable (dry and sheltered) conditions. In this case, it will retain its properties for at least 6 months. Experience has shown that it keeps its properties for more than one year. The height of stack should not be more than 10 bags.

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