

## Data sheet

# Firecrete C2

 ENGLISH  
Metric information

**Contact**
**Description**

An alumina-silica concrete with extremely high strength and abrasion resistance. For service up to 1260°C/2300°F. May be cast, gunned or trowelled over insulating refractories to obtain a high strength hot-face protection for a good insulation back-up.

CHARACTERISTICS	
Bond Type	Hydraulic
Raw Material Base	Chamotte
Maximum Grain Size (mm)	3
Maximum Service Temperature (°C)	1260
Bulk Density Dried to 110°C (kg/m <sup>3</sup> )	2000
Net Material Required (kg/m <sup>3</sup> )	1850

PHYSICAL PROPERTIES		
Test Temperature (°C)	Cold Crushing Strength (N/mm <sup>2</sup> )	Permanent Linear Change (%)
110	58.8	
815	35.3	-0.2
1000	29.4	-0.4
MST	26.5 (1200)	-0.8 (1200)

TYPICAL CHEMICAL ANALYSIS (%)	
Al <sub>2</sub> O <sub>3</sub>	34.5
SiO <sub>2</sub>	44
Fe <sub>2</sub> O <sub>3</sub>	7.2
TiO <sub>2</sub>	1.4
CaO	13.8
Na <sub>2</sub> O + K <sub>2</sub> O	1.2

PACKAGING SIZE (kg)	
Bag Weight	25
Pallet Size	1600

THERMAL CONDUCTIVITY ASTM C417		
W/mK		
@ mean temp		
200°C		
400°C	0.47	
600°C	0.49	
800°C	0.54	
1000°C	0.7	
1200°C		

WATER ADDITION	
% by weight	16

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The values given herein are typical average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations.

They are supplied as a technical service and are subject to change without notice.

Therefore the data contained herein should not be used for specification purposes.

Check with your Thermal Ceramics office to obtain current information or a Compliance Data Sheet where guaranteed property specifications are required.

Before using these materials, it is strongly recommended that the installer consults Thermal Ceramics manual "storage and installation manual" copies of which are obtainable from Thermal Ceramics offices or distributors.

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