

## Data sheet

## Firelite BM G

ENGLISH

Metric information

## Contact

## Description

An extremely strong insulating concrete for service up to 1370°C/2500°F. Designed for use in those areas that require a combination of light weight and high strength. It can be cast or gunned. Particularly used in petrochemical stills and as heater linings and for furnace doors, covers, kiln car tops, etc. Conforms to classes Q and R; ASTM classification C-401-84.

CHARACTERISTICS	
Bond Type	Hydraulic
Raw Material Base	Vermiculite/ Insulating Aggregate
Maximum Grain Size (mm)	8
Maximum Service Temperature (°C)	870
Bulk Density Dried to 110°C (kg/m <sup>3</sup> )	540
Net Material Required (kg/m <sup>3</sup> )	490

PHYSICAL PROPERTIES		
Test Temperature (°C)	Cold Crushing Strength (N/mm <sup>2</sup> )	Permanent Linear Change (%)
110	1	
815	0.7	-1
MST		

TYPICAL CHEMICAL ANALYSIS (%)	
Al <sub>2</sub> O <sub>3</sub>	24.7
SiO <sub>2</sub>	32.6
Fe <sub>2</sub> O <sub>3</sub>	7.3
TiO <sub>2</sub>	0.8
CaO	22.7
Na <sub>2</sub> O + K <sub>2</sub> O	9.9

PACKAGING SIZE (kg)	
Bag Weight	16
Pallet Size	576

THERMAL CONDUCTIVITY ASTM C417		
W/mK		
@ mean temp	200°C	0.11
	400°C	0.14
	600°C	
	800°C	
	1000°C	
	1200°C	

WATER ADDITION	
% by weight	110

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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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