

## Pyro-Bloc<sup>®</sup> HS Module



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### Features

- Next evolution in ceramic fiber
- Designed for enhanced mechanical abuse resistance
- Proprietary hardening agent
- Compressible in its green state
- Enhanced hardness upon minimal temperatures
- Available in “Y”, “M” and “T-Bar” attachment

### Product Description

Pyro-Bloc HS Module is a unique innovation in ceramic fiber module systems. Proprietary manufacturing techniques result in enhanced mechanical abuse resistance which allows Pyro-Bloc HS to be installed in applications never before thought possible with ceramic fiber of any type. Like all Pyro-Bloc products, Pyro-Bloc HS starts with Pyro-Log fiber which possesses the unique ability to become extremely hard after burnout of the organic lubricant. This benefit is enhanced by the addition of a proprietary hardening agent during manufacturing ensuring full and homogeneous penetration.

Pyro-Bloc HS is resilient and compressible in its green state, but becomes extremely hard upon exposure to minimal temperatures. All the same benefits of Pyro-Bloc are retained including excellent thermal conductivity and thermal shock resistance.

A wide range of attachment systems are available including the world-proven “Y”, “M” and “T-Bar” attachment systems. The Pyro-Bloc HS module is the next evolutionary step in ceramic fiber module systems.

### Applications

- Stack linings
- Flare linings
- Ductwork linings
- Kiln car block
- Kiln car seals
- Burner block
- Peep sights
- Corbell block
- Convection section
- Fluidized bed units

## Pyro-Bloc<sup>®</sup> HS Module



Physical Properties	Pyro-Bloc HS
Color	white/pale green
Density, pcf (kg/m <sup>3</sup> ) fired	30 (481) 23 (368)
Maximum temp. rating, °F (°C)	2200 (1204)
Melting point, °F (°C)	3000 (1650)
Continuous use limit, up to °F (°C)	2000 (1093)
<b>Thermal Conductivity, BTU·in./hr·ft<sup>2</sup>·°F (W/m·K), ASTM C 201</b>	
Mean temperature	
@ 500°F (260°C)	0.58 (0.08)
@ 1000°F (538°C)	0.98 (0.14)
@ 1500°F (816°C)	1.57 (0.23)
@ 2000°F (1093°C)	2.24 (0.32)
<b>Standard Sizes</b>	
Length x Width, in (mm)	12 x 12 (305 x 305) 6 x 12 (152 x 305) long fiber split 12 x 6 (305 x 152) short fiber split
Thickness, in (mm)	3 - 12, increments of 1 in. (76 - 305 in 25.4mm increments)

### Installation

There are a number of factors which must be considered when designing a Pyro-Bloc lining. The use limits of Pyro-Bloc modules should be used only as a guide when considering lining installation and design. Please call your nearest Morgan Advanced Materials representative.

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 Morgan Advanced Materials office to obtain current information.