

# PRODUCT BULLETIN

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**ALLIED  
MINERAL**  
PRODUCTS, INC.

## QUICK-FIRE® PATCH B

### General Information

QUICK-FIRE® PATCH B is a fine grained, high alumina based, two component patching and trowelling refractory. QUICK-FIRE® PATCH B is designed to be hand mixed in small quantities. This product is non-wetting to aluminum and can be used in either metal or non-metal contact applications. QUICK-FIRE® PATCH B utilizes a two component refractory system that incorporates a dry refractory aggregate and a proprietary liquid binder, QUICK-BOND.

### Technical Data

#### Chemical Analysis

Al <sub>2</sub> O <sub>3</sub>	79.2%
SiO <sub>2</sub>	10.1%
TiO <sub>2</sub>	2.8%
Fe <sub>2</sub> O <sub>3</sub>	1.2%
P <sub>2</sub> O <sub>5</sub>	4.3%

Material Required	2.53 g/cm <sup>3</sup> (158 lb/ft <sup>3</sup> )
Grain Size	2.4 mm (8 mesh) and finer
Maximum Use Temperature	1650°C (3000°F)
Installation Method	Hand Packing/Trowelling

#### Data

Temperature		Density		PLC <sup>†</sup>	MOR		CCS		Porosity	MOR	
°C	°F	g/cm <sup>3</sup>	lb/ft <sup>3</sup>	%	MPa	psi	MPa	psi	%	MPa	psi
820	1500	2.37	148	-0.1	5.6	810	21.1	3060	25.3	9.2	1340
1090	2000	2.35	147	-0.5	9.7	1400	43.6	6320	24.0	-	-
1370	2500	2.39	149	-0.6	12.8	1860	56.6	8210	24.5	-	-

<sup>†</sup> Permanent Linear Expansion After Drying

#### QUICK-BOND Liquid

QUICK-BOND recommended minimum order quantity	1 bottle to 1 bag
QUICK-BOND bottle	2.63 kg (5.80 lb)
QUICK-BOND required	13.0-16.0% (to consistency)

Packaged in 20 kg (44 lb) multi-wall paper bags, protected with stretch wrap. Also available in bulk packaging. Storage beyond 24 months is not recommended. Store in a dry location to avoid moisture pickup.

Additional installation guidelines may be found within the QF-4 QUICK-FIRE® PATCH Installation Procedure Bulletin. Allied Mineral Products, Inc. supplies a complete line of monolithic refractories for melting and holding all types of metals in coreless and channel induction furnaces. For more information or a complete evaluation of your refractory requirements, please contact your local Allied representative.

**Warning:** QUICK-BOND is corrosive. Contains aluminum oxide, aluminosilicates, cement and silica. The International Agency for Research on Cancer (IARC) has classified crystalline silica inhaled in the form of quartz or cristobalite carcinogenic to humans. Refer to Material Safety Data Sheet for additional information and disposal instructions. Wear NIOSH approved respirator during installation, removal, and disposal of product to prevent inhalation of dust. Wear long-sleeved, loose-fitting clothing when handling the material. Gloves and eye protection should be worn. Wash with soap and warm water after handling. Wash work clothes separately and rinse out washer. In case of eye contact, flush immediately and repeatedly with water and consult a physician. Steam spalling, which can lead to personal injury, may result from improper drying and firing procedures. For safest use and optimum performance, proper practices must be followed.

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Revised 2/23/17

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