



ALLIED
MINERAL
PRODUCTS, INC.

QUICK-FIRE® 85G

General Information

QUICK-FIRE® 85G is a high alumina, two component gunning mix that can be used to repair existing refractory linings in either metal contact or non-metal applications. This product is non-wetting to aluminum and may be utilized in select ferrous and non-ferrous applications.

QUICK-FIRE® 85G utilizes a two component refractory system that incorporates a dry refractory aggregate and a proprietary liquid binder, QUICK-BOND. QUICK-BOND is used as the nozzle accelerant, as well as the predemping liquid, if desired. This liquid is available in bottles and drums.

Chemical Analysis*

Al ₂ O ₃	86.7%	Maximum Use Temperature	1650°C (3000°F)
SiO ₂	4.6%	Material Required, gunning	2.50 g/cm ³ (156 lb/ft ³)
P ₂ O ₅	4.3%	Grain Size	5 mm (4 mesh) and finer
TiO ₂	1.5%	Installation Methods	Gunning, See QUICK-FIRE® installation guide
Other	2.9%	Standard Packaging	25.0 kg (55 lb) multi-wall paper bags
		Standard Palletizing	107cm X 107cm (42"X 42") pallets - 64 bags per pallet, 1600 kg (3520 lb)
		Alternative International Palletizing	120cm X 80cm (47"X32") pallets - 40 bags per pallet, 1000 kg (2200 lb)
		Maximum Shelf Life	24 months

*based on casting levels of QBF

GUNNED DATA

Temperature		Density		PLC*	CMOR		CCS		K-factor**	
(°C)	(°F)	g/cm ³	lb/ft ³	%	MPa	psi	MPa	psi	W·m ⁻¹ ·K ⁻¹	BTU·in ft ² ·hr·°F
110	230	2.39-2.51	149-157	-	-	-	-	-	1.4	9.6
816	1500	2.37-2.50	148-156	-0.4 to -0.2	4.1 - 4.5	600-650	14.5 - 19.3	2100-2800	1.5	10.6
1090	2000	2.35-2.45	147-153	0.0 to 0.1	5.7 - 7.6	820-1100	15.5 - 20.7	2250-3000	1.6	11.1
1370	2500	2.55-2.63	159-164	-2.9 to -2.4	11.7 - 16.5	1700-2400	46.9 - 65.5	6800-9500	1.7	11.8

*Permanent linear change after firing

**estimated

QUICK-BOND Liquid

QUICK-BOND Required	Variable (gunning), approximately 13.3%
QUICK-BOND Drum	215 kg (475 lb)
Optional QUICK-BOND Bottle for Predampening**	2.63 kg (5.80 lb)
Yield per installed bag*	0.012 m ³ (0.41 ft ³)

* not including rebound

** revised bottle weights; optimal predampening ratio is 1 bottle to 6 bags

Gunning instructions and additional installation guidelines may be found within the QUICK-FIRE® and QF-2 Gunning and QF-3 Equipment for gunning procedure bulletins.

Allied Mineral Products, Inc. supplies a complete line of monolithic refractories for the metals industry and other industrial applications. For more information or a complete evaluation of your refractory requirements, please contact your local Allied representative.

Warning: QUICK-BOND is corrosive. 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. Avoid breathing dust. Wear NIOSH approved respirator during installation, removal, and disposal of product to prevent inhalation of dust. Wear chemical safety glasses and acid-resistant gloves during installation. Avoid contact with skin and eyes. Cement powder or freshly mixed castable may cause eye and skin irritation. Steam spalling, which can lead to personal injury, may result from improper drying and firing procedures. In case of eye contact, flush immediately and repeatedly with water and consult a physician. For safest use and optimum performance, proper practices must be followed.

MXQF85G (Previously XM10238)
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