PRODUCT BULLETIN



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QUICK CAST® 82

General Information

QUICK CAST® 82 is part of a complete family of products that offer a wide range of installation methods: pumping, pouring, shotcreting or vibrating. QUICK CAST 82 is a high alumina, low cement castable designed for applications requiring severe corrosion resistance at high temperature. Applications include ladle linings, impact pads, tundish linings, non-ferrous channel furnace uppercases, burner ports, and precast shapes. For less demanding applications, QUICK CAST 52, QUICK CAST 62, and QUICK CAST 72 can be used. QUICK CAST 82 offers the following features and benefits:

- Excellent hot and cold strengths
- > Tolerates a wide water range without sacrificing physical properties
- > Abrasion resistant

Technical Data

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(Major Co	omponents)		
A12O3	78.2%	Material Required	2.88 g/cm ³ (180 lb./ft. ³)
SiO ₂	17.2%	Grain Size	
CaO	2.2%	Maximum Practical Use Temperature	1705°C (3100°F)
TiO ₂	1.0%	Installation MethodS	elf-flow, Poured, Vibrated, and Shotcreted
Fe ₂ O ₃	0.6%		

Packaged in 25 kg (55-lb.) multi-wall paper bags. Palletized 64 bags (1600 kg or 3520 lb.) per 42" x 42" pallet, protected with stretch wrap. Also available in bulk packaging. Storage beyond 6 months is not recommended. Store in a dry location to avoid moisture pickup.

Hydraulic Set and Water Requirements

QUICK CAST 82 has a unique design, enabling the installer to adjust water levels for optimum casting behavior. This product can be installed at a water level between 5.25% and 6.8%.

	Vibrated	Pouring and	Self-flow
		Pumping	
Water Required:	5.25%	5.75%	6.8%
Working Time:	40 minutes	50 minutes	>60 minutes
Initial Set:	2-6 hours	2-6 hours	2-6 hours
Final Set	8-24 hours	12-24 hours	16-24 hours

Allied Mineral Products, Inc. supplies a complete line of monolithic refractories. For more information or a complete evaluation of your refractory requirements, please contact your local Allied representative.

Warning: Contains aluminum oxide, calcium aluminate cement, aluminosilicates, 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. Avoid breathing dust. Wear NIOSH approved respirator during installation, removal, and disposal of product to prevent inhalation of dust. 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. Hydrogen gas may be generated when product is exposed to water. Ignition of hydrogen gas in an enclosed area can lead to personal injury. Proper ventilation should be supplied to avoid gas buildup. For safest use and optimum performance, proper practices must be followed.

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