

ARMORMAX[®] HIGH METAL FIBER CONTAINING REFRACTORY



Global Refractory Solutions

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PRODUCT INNOVATIONS

ARMORMAX[®] can withstand repeated thermal cycling, mechanical impact and abrasion due to its high reinforcing needle content. The metal fibers are pre-blended and uniformly distributed in the refractory matrix. ARMORMAX[®] offers the following benefits:

- High fracture toughness when thermally cycled
- Low abrasion loss
- High mechanical impact resistance
- Well suited for applications up to 1200°C (2200°F) continuous exposure
- Characterized for low water requirements (ranging from 4.5% to 6.5% by weight)
- All versions are low-cement castables
- Very good flowability properties for high needlebearing refractory castables



ARMORMAX® 70 SR in forge furnace sill



ARMORMAX[®] 70 SR forge furnace sill after 18 months in service



refractory

Aluminum reverb furnace sill cast with ARMORMAX® 70 AC



Completed reverb furnace sill with ARMORMAX® 70 AC



PRODUCT LINE refractory

ARMORMAX[®] 90 SR

90% alumina, tabular-based castable. For us in higher temperature applications in a wide range of highly corrosive environments.

ARMORMAX® 85

85% alumina bauxite-based castable. For use in molten metal splash conditions such as VOD covers. Develops exceptional strengths and as a result, is a good value versus 90% alumina castables.

ARMORMAX® NRSA

82% alumina, bauxite-based castable. Designed for high temperature applications in the cement industry including nose rings, tail rings, bull noses, cooler curbs and door sills. Exceptional strengths after firing to (816°C) 1500°F.

ARMORMAX® AZS 5HZR

27% zirconia-containing, mullite-based castable. Extraordinary resistance to alkali attack in cement applications and other mineral processing environments. Ideal for boiler applications where alkali attack is prevalent.

ARMORMAX® 608

60% alumina, mullite-based castable with a small SiC addition to enhance resistance to alkali attack and improve non-wetting characteristics in certain molten metal contact applications.

ARMORMAX® 70 SR

70% alumina, mullite-based castable. Designed for withstanding thermal shock, abrasion and mechanical impact. Ideally suited for forging and heat treating furnace applications in jambs, sills, lintels, pier blocks and hearths.

ARMORMAX[®] 70 AC

68% alumina, mullite-based castable. Similar formulation to ARMORMAX 70 SR with a non-wetting additive for aluminum contact applications. Highly resistant to abrasion and mechanical impact in applications such as door sills.

ARMORMAX[®] 28 SiC

28% silicon carbide-bearing, mullite-based castable. Developed for improved alkali resistance in cement applications, specifically where mechanical impact is an issue.



Rotary cooler with ARMORMAX® 70 SR



ARMORMAX[®] 70 SR hearth plates, sill and jambs



ARMORMAX® 70 AC aluminum reverb sill



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AP

	(47° 70 SP	1 85 1 C®	12 30 SR
= Recommended	NAG	KM.	RM	RM
O = Optional	ARMO	ARMO	ARMO	ARMC
HEAT TREAT AND FORGE	70 SR	85	90 SR	28 SiC
Box-Type				
Hearth	\checkmark	\checkmark	\checkmark	\checkmark
Jambs	\checkmark			
Sill	\checkmark			
Lintel	\checkmark			
Slot Forge				
Apron	\checkmark			
Jambs	\checkmark			
Hearth	\checkmark	\checkmark	\checkmark	\checkmark
Car Bottom				
Car Perimeter	\checkmark			
Hearth	\checkmark			
Jambs	\checkmark			
Lintel	\checkmark			
Tip-Up				
Pier blocks	\checkmark			
Rotary Hearth				
Hearth	\checkmark	\checkmark		
Jambs	\checkmark			
Lintel	\checkmark			

ALUMINUM	70 SR	70 AC
Jambs	\checkmark	
Lintel	\checkmark	
Sill		\checkmark
Top Ring (Round Top Charge Reverbs)	\checkmark	
Impact Walls (Stack melter)	\checkmark	\checkmark
Launder / Trough Impact Pad		\checkmark

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FOUNDRY	70 SR	NRSA	28SIC	AZS5HZR
Charge Door Openings	\checkmark	40	th	ovinal
Starter Blocks			Crt	ormai
Molds	\checkmark			
INDUSTRIAL				
Cement				
Nose Ring		\checkmark	\checkmark	\checkmark
Bull Nose	\checkmark	\checkmark	\checkmark	
Tail Ring	\checkmark	\checkmark	\checkmark	\checkmark
Cooler Curbs	\checkmark	\checkmark		
Damper Blades		\checkmark	\checkmark	
Lime				
Preheater	\checkmark			

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