

ARMORMAX® HIGH METAL FIBER CONTAINING REFRACTORY

HIGH WETAL FIBER CONTAINING REFRACTORY



Global Refractory Solutions



PRODUCTINNOVATIONS

refractory

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



Aluminum reverb furnace sill cast with ARMORMAX® 70 AC



Completed reverb furnace sill with ARMORMAX® 70 AC



PRODUCT LINE

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



$\sqrt{\ }$ = Recommended O = Optional

√ = Recommended O = Optional HEAT TREAT AND FORGE Box-Type Hearth Jambs Sill	(2 2 2	ARMORMAX®	ARMORMA v.®
O = Optional HEAT TREAT AND FORGE Box-Type Hearth Jambs	<i>MA</i> (JANA,	RM	RM
Box-Type Hearth Jambs	ARMC	ARMC	ARMC	ARMO
Hearth Jambs	70 SR	85	90 SR	28 SiC
Jambs				
	√	√	√	√
Sill	√			
	√			
Lintel	√			
Slot Forge				
Apron	√			
Jambs	√			
Hearth	V	V	√	\checkmark
<u>Car Bottom</u>				
Car Perimeter	√			
Hearth	√			1
Jambs	√			
Lintel	√			· <u></u>
<u>Tip-Up</u>				
Pier blocks	√			
Rotary Hearth				
Hearth	√	√		
Jambs	√			
Lintel	V			

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





Preheater

Visit alliedmineral.com for more information.