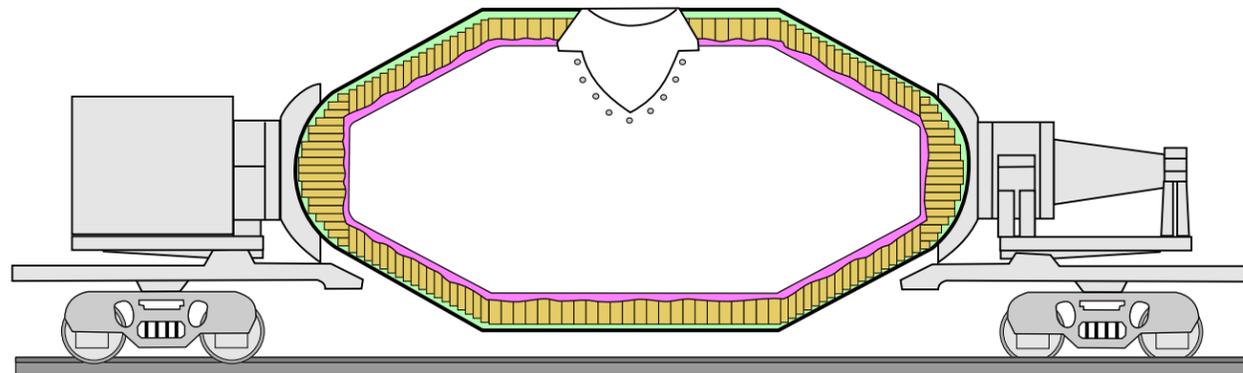


Resco Products for

Hot Metal Cars



Location	Products for Hot Metal Cars		
Permanent Lining	Monolithics		
	RESCORAM A-45 HC		
Working Lining	Brick		Mortars
	Resin Bonded Alumina	Burned Alumina	RESCOSET 80P
	LadleMax ASC	KRIAL CFB	ADACOR 70
	LadleMax BSC	SENECA SENECA 80	ADACOR 80
Working Lining Maintenance	Shotcrete		
	VIBROCAST 60 PC	QuikTurn 60 PC	EZ ³ 70 PC

LadleMax BSC - a resin-bonded alumina carbon brick with silicon carbide designed for use in hot metal cars or iron charging ladles. This bauxite-based, iron friendly brick is typically used in low wear areas.

LadleMax ASC - a resin bonded alumina-carbon brick with silicon carbide that also contains fused alumina. This product is used in iron charging ladles and hot metal cars as stream impact pads or stir quadrants.

Krial CFB - a low iron, high strength 70% alumina brick designed for resistance to impact, abrasion and carbon monoxide (CO) attack in severe blast furnace and DRI applications.

Seneca - this general purpose, bauxite-based 70% alumina brick features an extraordinary degree of corrosion and thermal shock resistance. It is ideally suited when cost effectiveness is essential. These brick are also used to line iron charging ladles.

Seneca 80 - a general purpose 80% alumina, bauxite-based brick used as an economical upgrade over the general purpose 70% alumina brick.

Vibrocast 60PC - a 60% alumina, mullite-based shotcrete mix designed for minimum porosity and low linear change with maximum density and high fired strengths. This material will withstand severe high temperature corrosion and erosion environments.

EZ³ 70PC - a 70% alumina shotcrete mix designed to give improved erosion, corrosion and refractoriness over Vibrocast 60PC.

Quikturn 60PC - a 60% alumina, mullite-based shotcrete material. After the initial set, the hot metal car can be returned to operation without curing or the traditional controlled heating schedule.

- LadleMax BSC
- LadleMax ASC
- RESCAL 90XD
- SENECA 80
- SENECA
- RESCOSET 80P
- QuikTurn 60PC
- VIBROCAST 60PC
- EZ³ 70PC
- KRIMUL
- KRIAL CFB
- KRIAL 70 HS
- KRIAL 65-A
- KRIAL 60-A+
- KRIAL 55-A
- KRIAL 50-A

- LadleMax BSC
- LadleMax ASC
- RESCAL 90XD
- SENECA 80



Refractory Products for Iron Making and Iron Handling

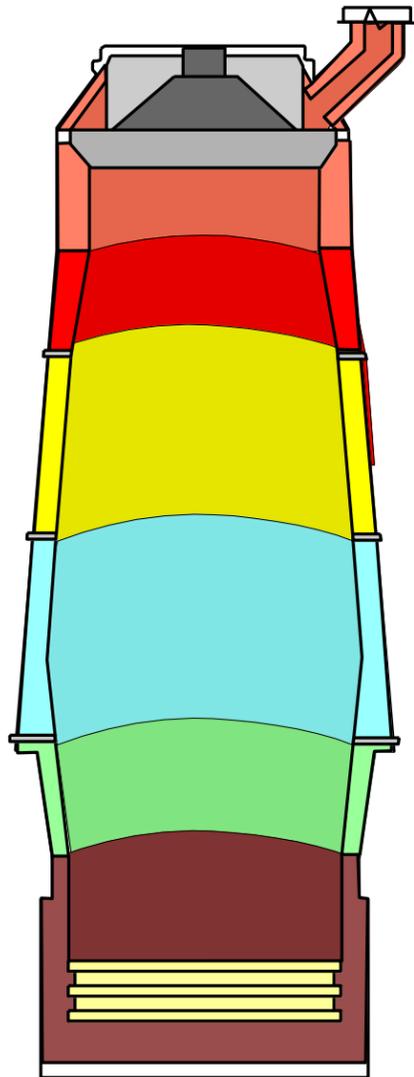


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Resco Products for

Blast Furnaces



Blast Furnace Applications

The acquisition of National Refractories alkali and creep resistant brick product line now gives Resco the opportunity to supply brick for blast furnace and blast furnace stove applications. The alkali and creep resistant brick brands listed below are high purity, low alkali, low iron oxide products made from high purity andalusite, alumina and clays. These brands are made at our ISO certified plant in Marelán, Quebec, Canada. The andalusite-containing products have the letter "A" as part of the suffix. These brands also have an "A" rating in the Carbon Monoxide disintegration test.

The Resco brand Rescal 90XD is a mullite bonded 90% alumina brick. Because of this mineralogical make-up and extremely high purity, Rescal 90XD is best characterized by exceptional refractoriness and high temperature strength. These properties translate to good mechanical stability of the Rescal 90XD in blast furnace bottoms.

Alkali Resistance

The manufacturing and formulation of Krial blast furnace brick is engineered to resist alkali attack (soda and potash). Hard firing reduces porosity and makes the brick less permeable to help prevent alkali penetration. In addition, stable, alkali-resistant materials (mullite) are present after high firing to further resist rapid alkali wear. The chemical compatibility of mullite to alkali attack is well documented.

Creep Resistance/Thermal Shock Resistance

Increased thermal shock, alkali attack and high temperature loading cause accelerated wear. In the blast furnace, such conditions require higher resistance than Krial 60. To meet these needs, the Krial family was expanded to include brick using andalusite to increase resistance to creep, spalling and alkali attack. Andalusite is a naturally occurring high alumina raw material that converts to mullite crystals when heated. In-situ mullite formation is noted by volume growth; products containing andalusite have always been characterized by excellent resistance to subsidence under high temperature loading.

The andalusite mineral occurs naturally as a blocky character. In the brick these blocks act as crack disruptors which improves spall resistance.

	Products for Blast Furnaces		
	Brick	Monolithic	Mortar
Top	KRIAL 50-A	RESCOCAST 15	METALDAM
Upper interwall	KRIAL P-70 BF	LoErode GM	METALDAM
Middle interwall	KRIAL 50-A	LoErode GM	METALDAM
Lower interwall	KRIAL 60-TI	VIBROCAST 80SCG	METALDAM
Bosh	RESCAL 90XD	VIBROCAST 80SCG	
Hearth	KRIAL 60	CARBON	METALDAM
Hearth	CARBON	CARBON	

Resco Products for

Blast Furnace Stoves

Alkali and Creep Resistant High Alumina Brick

KRIAL brick are high purity, low alkali products based on high purity aluminas, calcined kaolins, and high grade andalusite. These brick were designed originally for use in blast furnaces and blast furnace stoves due to their low creep rate and carbon monoxide resistance.

KRIAL 50-A This 50% alumina brick has a combination of creep resistance, dimensional stability, resistance to chemical attack and thermal conductivity and is an ideal product for use in high-efficiency, thin-wall blast furnace checkers.

KRIAL 60 KRIAL 60 is a quality brick with extensive service in blast furnace stack linings.

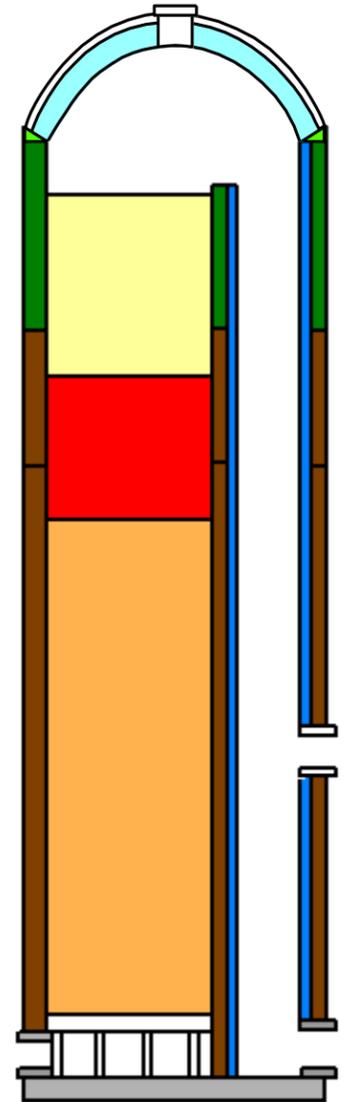
KRIMUL This is an ultrahigh purity, low flux brick that provides the maximum resistance to hot load deformation and creep in the 60% alumina product range. Its outstanding load bearing properties at 2550°F qualify it for severe blast furnace stove and hot blast main applications.

KRIAL 60-A+ This 60% alumina product is the primary answer for blast furnace stove applications requiring a low flux brick.

KRIAL 65-A This brand is recommend for use in the highest temperature area of the blast furnace.

KRIAL CFB This brand is a low iron, high strength 70% alumina brick designed for resistance to impact, abrasion and carbon monoxide attack in the blast furnace and DRI applications

RESCAL 90XD A 90% alumina brick with a mullite matrix. RESCAL 90XD is characterized by high resistance to blast furnace slag and alkali attack. The high hot strength and density provide excellent refractoriness and abrasion resistance.



	Products for Blast Furnace Stoves	
	Brick	Mortar
Dome	KRIAL 60, KRIAL 60-A+, KRIAL 65-A, KRIMUL	METALDAM
Upper ring wall	KRIAL 60, KRIAL 60-A+, KRIAL 65-A, KRIMUL	METALDAM
Middle and lower ring wall	KRIAL 50-A	METALDAM
Combustion chamber skin wall	KRIAL 60, KRIAL 60-A+, KRIAL 65-A, KRIMUL	METALDAM
Top checkers	KRIAL 60, KRIAL 60-A+, KRIAL 65-A, KRIMUL	METALDAM
Middle checkers	KRIAL 50-A	METALDAM
Bottom checkers	KRIAL 50-A, KRIAL 60	METALDAM