OVER 40 YEARS OF PERFORMANCE DESIGNED SOLUTIONS

## Selecting A Steel Coreless Lining

**URC** works hard to match the steel coreless lining and patching products to a customer's conditions and expectations.

The selection process includes the following steps:

PROVEN PERFORMERS Around the world, both UNI-RAM VR-788A and UNI-RAM VR-790A have been proven performers. Therefore, our selection criteria begins with how these products fit with the customer's needs and conditions.

	UNI-RAM VR-788A		UNI-RAM VR-790A
Furnace size	<1 ton	10	>1 ton
Depth of sinter	Lower	10	Higher
Manganese levels in melt	Higher	10	Lower
Al <sub>2</sub> O <sub>3</sub>	86.4		85.8
Mg0	12.9	In	12.8
SiO <sub>2</sub>	0.2	Tu	0.7

## **CUSTOMIZED COMPOSITIONS**

Because every foundry is different, a customized lining composition based on the success of UNI-RAM VR-788A and UNI-RAM VR-790A products is sometimes required to deliver the best cost-effective performance.

In addition to evaluating a furnace's history, operating parameters and postmortem sample studies, URC will leverage its experience and address one or more of the following variables with a product that **DELIVERS** Performance:

- Melt chemistries
- · Lower permeability/improved penetration resistance
- Unique sinter depth
   Cost demands

Contact your URC representative for further details!

TOP CAP SOLUTIONS Based on a shop's experience and culture, the TOP CAP is approached with various materials. Overall, the following options are performance leaders:

RATING	PRODUCT	TYPE	FEATURES
	UNI-RAM VR-797A	Dry Vibratable Top Cap	Compatible with     Excellent purity thermal expansion and refractoriness rates of lining
Best	UNI-PLAS 90HS	Phos-bonded formable plastic Molded Spout	High strength, high alumina composition     Best choice for ramming
Good	UNI-PLAS 90HS	Phos-bonded formable plastic Top Cap and Molded Spout	High strength, high alumina composition     Best choice for ramming
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## PATCHING PRODUCTS

The choice of patching products is usually dictated by the shop's experience and culture. The following products serve a wide array of chemical and workability needs, with the final selection based on the exact conditions of the furnace and installer preference.

PRODUCT	ТҮРЕ	FEATURES
UNI-RAM 9SP PLASTER	High purity alumina/spinel composition	Compatible with lining     Tamp or trowel repairs
UNI-RAM 87	Bauxite-based plastic	Cost effective ramming plastic for large or small cracks
UNI-RAM BLU FINE	Mullite-based plastic	Very cost effective, fine grained ram mix
UNI-RAM 85AS	Phos-free 85% alumina patch	Excellent for units that need a phos and sulphur free approach

Contact your URC representative for many more product and workability options.

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