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## Technical Data Sheet

### Coral GR9

#### Description

Coral GR9 is a dense dry spinel-forming ramming mix, based on fused alumina.

This mix has been designed to ensure that the thermally reactive components produce a hard fritted surface, with a high degree of powder backing even at elevated temperatures.

#### Applications

The mix reacts neutrally and is designed for use on coreless induction furnaces for the melting of steel and high alloyed, non-ferrous metals.

#### General Properties<sup>‡</sup>

Property	Value
Type	Dry vibration ramming mix
Main raw material	Fused alumina
Type of bond	Ceramic
Method of placement	Vibration
Bulk density	2800-2950 kg m <sup>-3</sup>
Maximum Grain Size	5 mm
Classification temperature	1700°C
Application limits: Continuous Short-term	1700°C 1760°C
Packaging	25 kg bags
Shelf life	12 months from date of manufacture if kept in dry, frost-free conditions away from direct sunlight

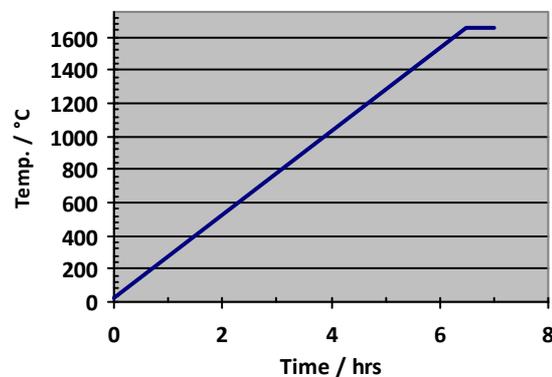
#### Chemical Properties<sup>†</sup>

Species	Weight %
Al <sub>2</sub> O <sub>3</sub>	89.3
MgO	9.9
SiO <sub>2</sub>	0.1
Fe <sub>2</sub> O <sub>3</sub>	0.1
CaO	0.1

#### Fritting Schedule

The furnace should be filled with dense charge material (e.g. stampings) and heated to melt out at 200-300°C per hour depending on furnace size, taking care that the bath covers all the dry rammed lining. The bath should be heated to 1650-1680°C and held at that temperature for 30-60 minutes.

#### Typical Fritting Schedule



**ATTENTION!** For optimum and safe performance the customer is advised to contact Capital for the correct installation and drying procedure specific to your operation.

<sup>†</sup> Properties are the mean of values determined during routine quality control and therefore do not constitute a specification.

<sup>‡</sup> Testing and classification according to BS EN 993 and BS EN ISO 10081

Revision date:  
08/11/2011

