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Technical Data Sheet

Capscreed

Description

Capscreed is a hydraulically bonded, high alumina, induction furnace coil screed.

Applications

Capscreed is a fine, air setting cement used to coat coil turns of induction furnaces. This presents a smooth surface to the slip plane medium in order to allow uninhibited expansion and contraction of the working lining. Capscreed also offers a degree of protection to the coil in the event of molten metal contact.

Application

Capscreed has a working time of up to 1 hour (under normal conditions at 20°C), and sets in 3-4 hours, so only sufficient material that can be used in that time should be mixed in one go. Add water to achieve the correct consistency and apply with a trowel. Capscreed can benefit from allowing to stand for 5-10 minutes after mixing and then remixing.

Before lining a furnace the Capscreed layer should be dried using a hot air blower or receptor for a couple of hours.

General Properties[†]

Property	Value
Type	MCC
Main raw material	Fused Alumina
Type of bond	Hydraulic
Method of placement	Trowelling
Bulk density	2600 kg m ⁻³
Classification temperature	1600°C
Application limits	1680°C
Maximum grain size	1 mm
Water addition	12-14%
	3.0-3.5 l / 25 kg bag
Packaging	25 kg bags
Shelf life	6 months when stored in a cool shaded frost-free environment

Physical Properties[†]

Property	Units	Dried to 150°C	Fired to 1000°C	Fired to 1600°C
Bulk Density	g cm ⁻³	2.49	2.39	2.48
Apparent Porosity	%		36.3	20.0
Cold Crushing Strength	MPa	28	28	73
Permanent linear change	%		-0.8	-1.4

Chemical Properties[†]

Species	Wt. %
Al ₂ O ₃	90.6
SiO ₂	1.1
CaO	5.8
Fe ₂ O ₃	0.1
TiO ₂	1.6

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

[†] Properties are the mean of values determined during routine quality control and therefore do not constitute a specification.

[‡] Testing and classification according to BS EN 993 and BS EN ISO 10081

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Quality Management System
Approved to ISO 9001