TECHNICAL DATA

CALDE® SOL CAST B 84 G10

PRODUCT TYPE	: Alumina product No cement castable
Maximum recommended temperature	: 1700°C
Main component	: Bauxite
Type of bond	: Mineral reaction
Appearence	: 2 components: Dry powder and wet binder
Packaging	: Aggregate : sack - Binder : canister
Shelf life	: 18 months
Installation method	: Vibrating
Maximum grain size	: 10 mm
Material required	: 2.90 t/m3
Quantity of binder to be added	: 7.0 / 8.0 kg per 100 kg of dry material
Guidelines	: Installation Nr 45
Recommendation	: To be used with second component CALDE®SOL BINDER 1

PRODUCT PROPERTIES	STANDARD	AVERAGE VALUES	UNITS
CHEMICAL ANALYSIS			
Al2O3	EN ISO 1927-3	85.5	%
SiO2	EN ISO 1927-3	11.0	%
Fe2O3	EN ISO 1927-3	0.7	%
PHYSICAL PROPERTIES			
Measured on samples prepared according to	EN ISO 1927-5		-
Bulk density			
after firing at 800 °C	EN ISO 1927-6	2.90	g/cm3
after firing at 1200 °C	EN ISO 1927-6	2.95	g/cm3
Open porosity			
after firing at 800 °C	EN ISO 1927-6	17	%
Cold crushing strength			
after drying at 110 °C	EN ISO 1927-6	65	MPa
after firing at 800 °C	EN ISO 1927-6	105	MPa
after firing at 1200 °C	EN ISO 1927-6	140	MPa
after firing at 1600 °C	EN ISO 1927-6	155	MPa
Permanent linear change			
after firing at 800 °C	EN ISO 1927-6	-0.0	%
after firing at 1200 °C	EN ISO 1927-6	-0.1	%
after firing at 1600 °C	EN ISO 1927-6	-0.3	%
Thermal conductivity			
at a mean temperature of 800 °C	EN ISO 1927-8	2.68	W/mK
at a mean temperature of 1000 °C	EN ISO 1927-8	2.54	W/mK
at a mean temperature of 1200 °C	EN ISO 1927-8	2.45	W/mK
Reversible thermal expansion after firing [20-1000 °C]		0.77	%

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The data are current production averages. They cannot be used as limits for a specification.