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TECHNICAL DATA

CALDE® SOL CAST A 44 S25

PRODUCT TYPE	: Special product No cement castable
Maximum recommended temperature	: 1500°C
Main component	: Andalusite , Silicon Carbide
Type of bond	: Mineral reaction
Appearence	: 2 components: Dry powder and wet binder
Packaging	: Aggregate: sack - Binder: drum
Shelf life	: 18 months
Installation method	: Vibrating
Maximum grain size	: 6 mm
Material required	: 2.70 t/m3
Quantity of binder to be added	: 8.0 / 9.0 kg per 100 kg of dry material
Observation	: (6.2/ 7.0 litres 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	44.0	%
SiO2	EN ISO 1927-3	28.0	%
SiC	EN ISO 1927-3	25.0	%
Fe2O3	EN ISO 1927-3	0.5	%
PHYSICAL PROPERTIES			
Measured on samples prepared according to	EN ISO 1927-5		-
Bulk density			
after drying at 110 °C	EN ISO 1927-6	2.65	g/cm3
after firing at 800 °C	EN ISO 1927-6	2.60	g/cm3
Open porosity			
after firing at 800 °C	EN ISO 1927-6	15	%
Cold crushing strength			
after drying at 110 °C	EN ISO 1927-6	75	MPa
after firing at 800 °C	EN ISO 1927-6	120	MPa
after firing at 1200 °C	EN ISO 1927-6	110	MPa
after firing at 1400 °C	EN ISO 1927-6	110	MPa
Permanent linear change			
after firing at 800 °C	EN ISO 1927-6	+0.0	%
after firing at 1200 °C	EN ISO 1927-6	+0.2	%
after firing at 1400 °C	EN ISO 1927-6	+0.5	%
Thermal conductivity			
at a mean temperature of 800 °C	EN ISO 1927-8	3.31	W/mK
at a mean temperature of 1000 °C	EN ISO 1927-8	3.38	W/mK
at a mean temperature of 1200 °C	EN ISO 1927-8	3.45	W/mK
Abrasion resistance			
after firing at 815°C	EN ISO 16282	< 8	cm3
Reversible thermal expansion after firing [20-1000 °C]		0.65	%

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

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