



TECHNICAL DATA

CALDE® SOL CAST A 44 S25

PRODUCT TYPE

Maximum recommended temperature	: Special product
Main component	No cement castable
Type of bond	: 1500°C
Appearence	: Andalusite , Silicon Carbide
Packaging	: Mineral reaction
Shelf life	: 2 components: Dry powder and wet binder
Installation method	: Aggregate: sack - Binder: drum
Maximum grain size	: 18 months
Material required	: Vibrating
Quantity of binder to be added	: 6 mm
Observation	: 2.70 t/m3
Guidelines	: (8.0 / 9.0 kg per 100 kg of dry material)
Recommendation	: (6.2/ 7.0 litres per 100 kg of dry material)
	: Installation Nr 45
	: To be used with second component CALDE®SOL BINDER 1 (see its separated TDS/SDS)

PRODUCT PROPERTIES	STANDARD	AVERAGE VALUES	UNITS
<u>CHEMICAL ANALYSIS</u>			
Al2O3	EN ISO 1927-3	43.0	%
SiO2	EN ISO 1927-3	30.0	%
SiC	EN ISO 1927-3	25.0	%
Fe2O3	EN ISO 1927-3	0.6	%
<u>PHYSICAL PROPERTIES</u>			
<u>Measured on samples prepared according to</u>	EN ISO 1927-5		-
<u>Bulk density</u>			
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
<u>Open porosity</u>			
after firing at 800 °C	EN ISO 1927-6	15	%
<u>Cold crushing strength</u>			
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
<u>Permanent linear change</u>			
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	%
<u>Thermal conductivity</u>			
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
<u>Abrasion resistance</u>			
after firing at 815°C	EN ISO 16282	< 8	cm3
<u>Reversible thermal expansion after firing.[20-1000 °C]</u>		0.65	%

Commercial Code : MSU40004

Version : 17

Date : 12/09/2023

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

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