



TECHNICAL DATA

CALDE® SOL CAST A 44 S25

PRODUCT TYPE

: Special product
 No cement castable
 : 1500°C
 : Andalusite , Silicon Carbide
 : Mineral reaction
 : 2 components: Dry powder and wet binder
 : Aggregate: sack - Binder: drum
 : 18 months
 : Vibrating
 : 6 mm
 : 2.70 t/m3
 : 8.0 / 9.0 kg per 100 kg of dry material
 : (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)

Maximum recommended temperature

Main component

Type of bond

Appearance

Packaging

Shelf life

Installation method

Maximum grain size

Material required

Quantity of binder to be added

Observation

Guidelines

Recommendation

PRODUCT PROPERTIES	STANDARD	AVERAGE VALUES	UNITS
CHEMICAL ANALYSIS			
Al ₂ O ₃	EN ISO 1927-3	43.0	%
SiO ₂	EN ISO 1927-3	30.0	%
SiC	EN ISO 1927-3	25.0	%
Fe ₂ O ₃	EN ISO 1927-3	0.6	%
PHYSICAL PROPERTIES			
<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/cm ³
after firing at 800 °C	EN ISO 1927-6	2.60	g/cm ³
<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	cm ³
<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.

CALDERYS AUSTRIA Gmbh
IZ-NO Süd Strasse 16, Objekt 69/7 Postfach 71 A-2355 Wiener Neudorf
Tel: +43.2236.677090.0 - Fax: +43.2236.677093.11