

TECHNICAL DATA

CALDE™ CAST M 32

PRODUCT TYPE	: Alumina - Silica product
Maximum recommended temperature	: Medium cement castable
Main component	: 1600°C
Type of bond	: Bauxite
Appearance	: Hydraulic
Packaging	: Dry, for addition of water
Shelf life	: Sacks
Installation method	: 6 months.
Maximum grain size	: Vibrating
Material required	: 6 mm
Drinking water required for mixing on site	: 2.75 T/m³
Observation	: 5.4 / 6.8 litres per 100 kg of dry material
Guidelines	: By adjusting the water amount to obtain the required consistency, the product may be installed by rodding.
	: Installation Nr 6 & Nr 21

PRODUCT PROPERTIES	STANDARD	AVERAGE VALUES	UNITS
CHEMICAL ANALYSIS			
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Al ₂ O ₃	EN 1402-3	78.0	%
SiO ₂	EN 1402-3	15.0	%
CaO	EN 1402-3	3.1	%
Fe ₂ O ₃	EN 1402-3	1.0	%
PHYSICAL PROPERTIES			
<u>Measured on samples prepared according to</u>	EN 1402-5	-	-
<u>Bulk density</u>			
after drying at 110 °C	EN 1402-6	2.80	g/cm ³
after firing at 800 °C	EN 1402-6	2.73	g/cm ³
<u>Open porosity</u>			
after firing at 800 °C	EN 1402-6	20	%
<u>Cold crushing strength</u>			
after drying at 110 °C	EN 1402-6	130	MPa
after firing at 800 °C	EN 1402-6	120	MPa
after firing at 1200 °C	EN 1402-6	110	MPa
after firing at 1400 °C	EN 1402-6	80	MPa
<u>Permanent linear change</u>			
after firing at 800 °C	EN 1402-6	-0.3	%
after firing at 1200 °C	EN 1402-6	-0.3	%
after firing at 1400 °C	EN 1402-6	+0.3	%
<u>Thermal conductivity</u>			
at a mean temperature of 800 °C	EN 993-15	2.27	W/mK
at a mean temperature of 1000 °C	EN 993-15	2.19	W/mK
at a mean temperature of 1200 °C	EN 993-15	2.17	W/mK
<u>Abrasion resistance after firing at 800°C</u>	ASTM C 704	< 6	cm ³
<u>Reversible thermal expansion after firing [20-1000°C]</u>	-	0.73	%

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