

## CALDE™ STIX ZIRKON

<b>PRODUCT TYPE</b>	: Special product Regular Castable
Maximum recommended temperature	: 1350°C
Main component	: Zircon
Type of bond	: Hydraulic
Appearance	: Dry, for addition of water
Packaging	: Sacks
Shelf life	: 12 months
Installation method	: Trowelling , Gunning
Maximum grain size	: 6 mm
Material required	: 3.10 T/m <sup>3</sup> (Rebound included)
Drinking water required for mixing on site	: Added at the nozzle
Guidelines	: Installation Nr 23

PRODUCT PROPERTIES	STANDARD	AVERAGE VALUES	UNITS
<u>CHEMICAL ANALYSIS</u>			
Al <sub>2</sub> O <sub>3</sub>	EN 1402-3	37.0	%
ZrO <sub>2</sub>	EN 1402-3	30.0	%
SiO <sub>2</sub>	EN 1402-3	26.0	%
CaO	EN 1402-3	5.0	%
Fe <sub>2</sub> O <sub>3</sub>	EN 1402-3	1.1	%
<u>PHYSICAL PROPERTIES</u>			
<u>Measured on samples prepared by gunning</u>	CALD 010		-
<u>Bulk density</u>			
after drying at 110 °C	EN 1402-6	2.94	g/cm <sup>3</sup>
after firing at 800 °C	EN 1402-6	2.80	g/cm <sup>3</sup>
<u>Cold crushing strength</u>			
after drying at 110 °C	EN 1402-6	40	MPa
after firing at 800 °C	EN 1402-6	48	MPa
after firing at 1000 °C	EN 1402-6	45	MPa
after firing at 1200 °C	EN 1402-6	40	MPa
<u>Permanent linear change</u>			
after firing at 800 °C	EN 1402-6	-0.3	%
after firing at 1000 °C	EN 1402-6	-0.4	%
after firing at 1200 °C	EN 1402-6	-0.6	%
<u>Thermal conductivity</u>			
at a mean temperature of 800 °C	EN 993-15	0.92	W/mK
at a mean temperature of 1000 °C	EN 993-15	0.95	W/mK
at a mean temperature of 1200 °C	EN 993-15	0.97	W/mK
<u>Reversible thermal expansion after firing [20-1000 °C]</u>	-	0.68	%

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