

## CALDE™ STIX T 90 G1

### PRODUCT TYPE

	: Alumina product
	Regular Castable
Maximum recommended temperature	: 1750°C
Main component	: Tabular alumina
Type of bond	: Hydraulic
Appearance	: Dry, for addition of water
Packaging	: Sacks or big bags
Shelf life	: 12 months
Installation method	: Trowelling
Maximum grain size	: 1 mm
Material required	: 2.85 T/m <sup>3</sup>
Drinking water required for mixing on site	: 10.0 / 15.0 litres per 100 kg of dry material
Guidelines	: Installation Nr 5

PRODUCT PROPERTIES	STANDARD	AVERAGE VALUES	UNITS
<u>CHEMICAL ANALYSIS</u>			
Al <sub>2</sub> O <sub>3</sub>	EN 1402-3	91.0	%
CaO	EN 1402-3	5.0	%
SiO <sub>2</sub>	EN 1402-3	3.0	%
<u>PHYSICAL PROPERTIES</u>			
<u>Measured on samples prepared according to</u>	EN 1402-5		-
<u>Bulk density</u>			
after drying at 110 °C	EN 1402-6	2.83	g/cm <sup>3</sup>
after firing at 800 °C	EN 1402-6	2.72	g/cm <sup>3</sup>
<u>Cold crushing strength</u>			
after drying at 110 °C	EN 1402-6	55	MPa
after firing at 1250 °C	EN 1402-6	59	MPa
after firing at 1450 °C	EN 1402-6	87	MPa
<u>Permanent linear change</u>			
after firing at 1250 °C	EN 1402-6	+0.1	%
after firing at 1450 °C	EN 1402-6	-0.4	%
<u>Thermal conductivity</u>			
at a mean temperature of 800 °C	EN 993-15	2.56	W/mK
at a mean temperature of 1000 °C	EN 993-15	2.44	W/mK
at a mean temperature of 1200 °C	EN 993-15	2.37	W/mK
<u>Reversible thermal expansion after firing [20-1000 °C]</u>	-	0.78	%

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