



TECHNICAL DATA

CALDE® CAST XL 106 C/G

PRODUCT TYPE	: Alumina - Silica product Insulating castable
Maximum recommended temperature	: 1060°C
Main component	: Vermiculite
Type of bond	: Hydraulic
Appearance	: Dry, for addition of water
Packaging	: Sacks
Shelf life	: 12 months
Installation method	: Hand compaction, Gunning
Maximum grain size	: 3 mm
Material required	
casting	: 0.51 T/m³
gunning	: 0.73 T/m³ (Rebound included)
Water required for mixing on site	
casting	: 96.0 / 116.0 litres per 100 kg of dry material
gunning	: Added at the nozzle
Guidelines	: Installation Nr 9

PRODUCT PROPERTIES	STANDARD	AVERAGE VALUES		UNITS
		Cast	Gunned	
<u>CHEMICAL ANALYSIS</u>				
SiO ₂	EN ISO 1927-3	31.0		%
Al ₂ O ₃	EN ISO 1927-3	30.0		%
CaO	EN ISO 1927-3	16.5		%
Fe ₂ O ₃	EN ISO 1927-3	9.0		%
<u>PHYSICAL PROPERTIES</u>				
<u>Measured on samples prepared according to</u>	-	EN ISO 1927-5	CALD010	-
<u>Bulk density</u>				
after drying at 110 °C	EN ISO 1927-6	0.56	0.66	g/cm ³
after firing at 800 °C	EN ISO 1927-6	0.50	0.60	g/cm ³
<u>Cold crushing strength</u>				
after drying at 110 °C	EN ISO 1927-6	1.2	1.5	MPa
after firing at 500 °C	EN ISO 1927-6	0.9	1.2	MPa
after firing at 800 °C	EN ISO 1927-6	0.9	1.2	MPa
<u>Permanent linear change</u>				
after firing at 500 °C	EN ISO 1927-6	-0.6	-0.6	%
after firing at 800 °C	EN ISO 1927-6	-0.7	-0.7	%
after firing at 1000 °C	EN ISO 1927-6	-2.0	-2.1	%
<u>Thermal conductivity</u>				
at a mean temperature of 500 °C	EN ISO 1927-8	0.14	0.16	W/mK
at a mean temperature of 800 °C	EN ISO 1927-8	0.16	0.19	W/mK
<u>Reversible thermal expansion after firing [20-1000 °C]</u>		0.55	0.55	%

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