TECHNICAL DATA

CALDE™ CAST LW 116 C/G

PRODUCT TYPE	: Alumina - Silica product Insulating castable
Maximum recommended temperature	: 1160°C
Main component	: Light-weight chamotte, Vermiculite
Type of bond	: Hydraulic
Appearence	: Dry, for addition of water
Packaging	: Sacks
Shelf life	: 12 months
Installation method	: Casting (Rodding , minimun vibration), Gunning
Maximum grain size	: 4 mm
Material required	
casting	: 1.02 T/m³
gunning	: 1.40 T/m³ (Rebound included)
Water required for mixing on site	
casting	: 38.0 / 42.0 litres per 100 kg of dry material
gunning	: Added at the nozzle
Guidelines	: Installation Nr 9

PRODUCT PROPERTIES	STANDARD	AVERAGE VALUES		UNITS
		Cast	Gunned	
CHEMICAL ANALYSIS				
SiO2	EN 1402-3	39.0		%
Al2O3	EN 1402-3	25.0		%
CaO	EN 1402-3	17.5		%
Fe2O3	EN 1402-3	10.5		%
PHYSICAL PROPERTIES				
Measured on samples prepared according to	-	EN1402	CALD010	-
Bulk density				
after drying at 110 °C	EN 1402-6	1.10	1.37	g/cm3
after firing at 800 °C	EN 1402-6	1.00	1.25	g/cm3
Cold crushing strength				
after drying at 110 °C	EN 1402-6	6	15	MPa
after firing at 500°C	EN 1402-6	4.5	10	MPa
after firing at 800 °C	EN 1402-6	4	10	MPa
after firing at 1000 °C	EN 1402-6	2.6	7	MPa
Permanent linear change				
after firing at 500 °C	EN 1402-6	-0.2	-0.2	%
after firing at 800 °C	EN 1402-6	-0.3	-0.2	%
after firing at 1000 °C	EN 1402-6	-0.9	-0.8	%
Thermal conductivity				
at a mean temperature of 500 °C	EN 993-15	0.27	0.37	W/mK
at a mean temperature of 800 °C	EN 993-15	0.29	0.39	W/mK
at a mean temperature of 1000 °C	EN 993-15	0.33	0.41	W/mK
Reversible thermal expansion after firing [20-1000°C]	-	0.57	0.57	%

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

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