

CALDE® CAST F 34 C/G

PRODUCT TYPE

Maximum recommended temperature	: Alumina - Silica product
Main component	Regular Castable
Type of bond	: 1350°C
Appearance	: Chamotte
Packaging	: Hydraulic
Shelf life	: Dry, for addition of water
Installation method	: Sacks
Maximum grain size	: 12 months
Material required	: Vibrating , Gunning
casting	: 3 mm
gunning	: 1.76 T/m³
Water required for mixing on site	: 2.18 T/m³ (Rebound included)
casting	: 16.0 / 18.0 litres per 100 kg of dry material
gunning	: Added at the nozzle
Guidelines	: Installation Nr 5 + Nr 23

PRODUCT PROPERTIES	STANDARD	AVERAGE VALUES		UNITS
		Casted	Gunned	
<u>CHEMICAL ANALYSIS</u>				
SiO ₂	EN ISO 1927-3		48.0	%
Al ₂ O ₃	EN ISO 1927-3		37.0	%
CaO	EN ISO 1927-3		8.7	%
Fe ₂ O ₃	EN ISO 1927-3		2.7	%
<u>PHYSICAL PROPERTIES</u>				
Measured on samples prepared according to	-	EN ISO 1927	CALD010	-
<u>Bulk density</u>				
after drying at 110 °C	EN ISO 1927-6	1.83	1.99	g/cm ³
after firing at 800 °C	EN ISO 1927-6	1.74	1.90	g/cm ³
<u>Cold crushing strength</u>				
after drying at 110 °C	EN ISO 1927-6	30	26	MPa
after firing at 800 °C	EN ISO 1927-6	23	24	MPa
after firing at 1200 °C	EN ISO 1927-6	15	21	MPa
<u>Permanent linear change</u>				
after firing at 800 °C	EN ISO 1927-6	-0.1	-0.1	%
after firing at 1200 °C	EN ISO 1927-6	-0.5	-0.3	%
<u>Thermal conductivity</u>				
at a mean temperature of 800 °C	EN ISO 1927-8	0.68	0.83	W/mK
at a mean temperature of 1000 °C	EN ISO 1927-8	0.75	0.89	W/mK
at a mean temperature of 1200 °C	EN ISO 1927-8	0.93	1.06	W/mK
<u>Reversible thermal expansion after firing [20-1000 °C]</u>		0.59	0.59	%

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