

# CALDE® CAST F 34 C/G

## PRODUCT TYPE

	: Alumina - Silica product
	Regular Castable
Maximum recommended temperature	: 1350°C
Main component	: Chamotte
Type of bond	: Hydraulic
Appearance	: Dry, for addition of water
Packaging	: Sacks
Shelf life	: 12 months
Installation method	: Vibrating , Gunning
Maximum grain size	: 3 mm
Material required	
casting	: 1.76 T/m³
gunning	: 2.18 T/m³ (Rebound included)
Water required for mixing on site	
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	
<b>CHEMICAL ANALYSIS</b>				
SiO <sub>2</sub>	EN ISO 1927-3	48.0		%
Al <sub>2</sub> O <sub>3</sub>	EN ISO 1927-3	37.0		%
CaO	EN ISO 1927-3	8.7		%
Fe <sub>2</sub> O <sub>3</sub>	EN ISO 1927-3	2.7		%
<b>PHYSICAL PROPERTIES</b>				
<u>Measured on samples prepared according to</u>	-	EN ISO 1927	CALD010	-
<u>Bulk density</u>				
after drying at 110 °C	EN ISO 1927-6	1.83	1.99	g/cm <sup>3</sup>
after firing at 800 °C	EN ISO 1927-6	1.74	1.90	g/cm <sup>3</sup>
<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.