

## CALDE™ CAST F 42

### PRODUCT TYPE

	: Alumina - Silica product
	Regular Castable
Maximum recommended temperature	: 1320°C
Main component	: Chamotte
Type of bond	: Hydraulic
Appearance	: Dry, for addition of water
Packaging	: Sacks
Shelf life	: 12 months
Installation method	: Vibrating
Maximum grain size	: 6 mm
Material required	: 2.00 T/m <sup>3</sup>
Drinking water required for mixing on site	: 12.0 / 14.0 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	41.0	%
SiO <sub>2</sub>	EN 1402-3	38.0	%
CaO	EN 1402-3	11.0	%
Fe <sub>2</sub> O <sub>3</sub>	EN 1402-3	5.0	%
<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	2.05	g/cm <sup>3</sup>
after firing at 800 °C	EN 1402-6	1.95	g/cm <sup>3</sup>
<u>Cold crushing strength</u>			
after drying at 110 °C	EN 1402-6	65	MPa
after firing at 800 °C	EN 1402-6	45	MPa
after firing at 1000 °C	EN 1402-6	30	MPa
after firing at 1200 °C	EN 1402-6	24	MPa
<u>Permanent linear change</u>			
after firing at 800 °C	EN 1402-6	-0.1	%
after firing at 1000 °C	EN 1402-6	-0.20	%
after firing at 1200 °C	EN 1402-6	-0.2	%
<u>Thermal conductivity</u>			
at a mean temperature of 800 °C	EN 993-15	0.88	W/mK
at a mean temperature of 1000 °C	EN 993-15	0.94	W/mK
at a mean temperature of 1200 °C	EN 993-15	1.11	W/mK
<u>Reversible thermal expansion after firing [20-1000°C]</u>	-	0.6	%

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