



## TECHNICAL DATA

# CALDE® CAST MW STRONG LITE

### PRODUCT TYPE

	: Alumina - Silica product
	Insulating castable
Maximum recommended temperature	: 1320°C
Main component	: Lightweight chamotte
Type of bond	: Hydraulic
Appearance	: Dry, for addition of water
Packaging	: Sacks
Shelf life	: 12 months
Installation method	: Casting ( Rodding , minimum vibration )
Maximum grain size	: 4 mm
Material required	: 1.48 t/m <sup>3</sup>
Drinking water required for mixing on site	: 20.5 / 23.5 litres per 100 kg of dry material
Guidelines	: Installation Nr 9

PRODUCT PROPERTIES	STANDARD	AVERAGE VALUES	UNITS
<b>CHEMICAL ANALYSIS</b>			
Al <sub>2</sub> O <sub>3</sub>	EN ISO 1927-3	40.0	%
SiO <sub>2</sub>	EN ISO 1927-3	39.0	%
CaO	EN ISO 1927-3	12.5	%
Fe <sub>2</sub> O <sub>3</sub>	EN ISO 1927-3	5.3	%
<b>PHYSICAL PROPERTIES</b>			
<u>Measured on samples prepared according to</u>	EN ISO 1927-5		-
<u>Bulk density</u>			
after drying at 110 °C	EN ISO 1927-6	1.59	g/cm <sup>3</sup>
after firing at 800 °C	EN ISO 1927-6	1.45	g/cm <sup>3</sup>
<u>Cold crushing strength</u>			
after drying at 110 °C	EN ISO 1927-6	25	MPa
after firing at 800 °C	EN ISO 1927-6	18	MPa
after firing at 1000 °C	EN ISO 1927-6	12	MPa
after firing at 1200 °C	EN ISO 1927-6	10	MPa
<u>Permanent linear change</u>			
after firing at 800 °C	EN ISO 1927-6	-0.15	%
after firing at 1000 °C	EN ISO 1927-6	-0.25	%
after firing at 1200 °C	EN ISO 1927-6	-0.40	%
<u>Thermal conductivity</u>			
at a mean temperature of 500 °C	EN ISO 1927-8	0.49	W/mK
at a mean temperature of 800 °C	EN ISO 1927-8	0.50	W/mK
at a mean temperature of 1000 °C	EN ISO 1927-8	0.55	W/mK
<u>Reversible thermal expansion after firing [20-1000 °C]</u>		0.60	%

Commercial Code : MAI40096

Version : 12

Date : 27/09/2019

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