



TECHNICAL DATA

CALDE™ CAST ML 55 S5

PRODUCT TYPE	: Alumina - Silica product
	: Low cement castable
Maximum recommended temperature	: 1550°C
Main component	: High alumina raw materials
Type of bond	: Hydraulic
Appearance	: Dry, for addition of water
Packaging	: Sacks
Shelf life	: 6 months.
Installation method	: Vibrating
Maximum grain size	: 10 mm
Material required	: 2.50 T/m ³
Drinking water required for mixing on site	: 5.0 / 6.0 litres per 100 kg of dry material
Guidelines	: Installation Nr 6

PRODUCT PROPERTIES	STANDARD	AVERAGE VALUES	UNITS
CHEMICAL ANALYSIS			
-			
Al ₂ O ₃	EN 1402-3	55.0	%
SiO ₂	EN 1402-3	35.0	%
SiC	EN 1402-3	5.0	%
CaO	EN 1402-3	1.4	%
Fe ₂ O ₃	EN 1402-3	0.9	%
PHYSICAL PROPERTIES			
<u>Measured on samples prepared according to</u>	EN 1402-5	-	-
<u>Bulk density</u>			
after drying at 110 °C	EN 1402-6	2.51	g/cm ³
after firing at 800 °C	EN 1402-6	2.48	g/cm ³
<u>Open porosity</u>			
after firing at 800 °C	EN 1402-6	14	%
<u>Cold crushing strength</u>			
after drying at 110 °C	EN 1402-6	95	MPa
after firing at 800 °C	EN 1402-6	130	MPa
after firing at 1200 °C	EN 1402-6	140	MPa
after firing at 1550 °C	EN 1402-6	110	MPa
<u>Permanent linear change</u>			
after firing at 800 °C	EN 1402-6	-0.2	%
after firing at 1200 °C	EN 1402-6	-0.4	%
after firing at 1550 °C	EN 1402-6	+0.3	%
<u>Thermal conductivity</u>			
at a mean temperature of 800 °C	EN 993-15	1.83	W/mK
at a mean temperature of 1000 °C	EN 993-15	1.83	W/mK
at a mean temperature of 1200 °C	EN 993-15	1.92	W/mK
<u>Reversible thermal expansion after firing [20-1000°C]</u>	-	0.66	%

Commercial Code : MAL50076

Version : 10

Date : 21.04.2010 (D/M/Y)

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

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