

## CALDE™ FLOW MM 68 CO

<b>PRODUCT TYPE</b>	: Alumina - Silica product Medium cement castable
Maximum recommended temperature	: 1630°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	: Self-flowing
Maximum grain size	: 6 mm
Material required	: 2.45 T/m <sup>3</sup>
Drinking water required for mixing on site	: 6.8 / 7.8 litres per 100 kg of dry material
Guidelines	: Installation Nr 7

PRODUCT PROPERTIES	STANDARD	AVERAGE VALUES	UNITS
<u>CHEMICAL ANALYSIS</u>			
Al <sub>2</sub> O <sub>3</sub>	EN 1402-3	68.0	%
SiO <sub>2</sub>	EN 1402-3	26.0	%
CaO	EN 1402-3	2.7	%
Fe <sub>2</sub> O <sub>3</sub>	EN 1402-3	0.8	%
<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	2.51	g/cm <sup>3</sup>
after firing at 800 °C	EN 1402-6	2.45	g/cm <sup>3</sup>
<u>Open porosity</u>			
after firing at 800 °C	EN 1402-6	20	%
<u>Cold crushing strength</u>			
after drying at 110 °C	EN 1402-6	110	MPa
after firing at 800 °C	EN 1402-6	155	MPa
after firing at 1200 °C	EN 1402-6	105	MPa
after firing at 1600 °C	EN 1402-6	90	MPa
<u>Permanent linear change</u>			
after firing at 800 °C	EN 1402-6	-0.2	%
after firing at 1200 °C	EN 1402-6	-0.5	%
after firing at 1600 °C	EN 1402-6	+0.8	%
<u>Thermal conductivity</u>			
at a mean temperature of 800 °C	EN 993-15	1.61	W/mK
at a mean temperature of 1000 °C	EN 993-15	1.62	W/mK
at a mean temperature of 1200 °C	EN 993-15	1.71	W/mK
<u>Abrasion resistance</u>			
after firing at 815°C	ASTM C 704	< 8	cm <sup>3</sup>
<u>Reversible thermal expansion after firing [20-1000 °C]</u>	-	0.65	%

Commercial Code : MAS60027

Version : 10

Date : 10/10/2012

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