TECHNICAL DATA

CALDE® CAST M 32

PRODUCT TYPE	: Alumina - Silica product Medium cement castable
Maximum recommended temperature	: 1600°C
Main component	: Bauxite
Type of bond	: Hydraulic
Appearence	: Dry, for addition of water
Packaging	: Sacks
Shelf life	: 6 months
Installation method	: Vibrating
Maximum grain size	: 6 mm
Material required	: 2.75 T/m³
Drinking water required for mixing on site	: 5.4 / 6.8 litres per 100 kg of dry material
Observation	: By adjusting the water amount to obtain the required consistency, the product may be installed by rodding.
Guidelines	: Installation Nr 6 + Nr 21

PRODUCT PROPERTIES	STANDARD	AVERAGE VALUES	UNITS
CHEMICAL ANALYSIS			
Al2O3	EN ISO 1927-3	78.0	%
SiO2	EN ISO 1927-3	15.0	%
CaO	EN ISO 1927-3	3.1	%
Fe2O3	EN ISO 1927-3	1.0	%
PHYSICAL PROPERTIES			
Measured on samples prepared according to	EN ISO 1927-5	-	-
Bulk density			
after firing at 800 °C	EN ISO 1927-6	2.73	g/cm3
Open porosity			
after firing at 800 °C	EN ISO 1927-6	20	%
Cold crushing strength			
after firing at 800 °C	EN ISO 1927-6	120	MPa
after firing at 1200 °C	EN ISO 1927-6	110	MPa
after firing at 1400 °C	EN ISO 1927-6	80	MPa
Permanent linear change			
after firing at 800 °C	EN ISO 1927-6	-0.3	%
after firing at 1200 °C	EN ISO 1927-6	-0.3	%
after firing at 1400 °C	EN ISO 1927-6	+0.3	%
Thermal conductivity			
at a mean temperature of 800 °C	EN ISO 1927-8	2.27	W/mK
at a mean temperature of 1000 °C	EN ISO 1927-8	2.19	W/mK
at a mean temperature of 1200 °C	EN ISO 1927-8	2.17	W/mK
Abrasion resistance			
after firing at 815°C	EN ISO 16282	< 6	cm3
Reversible thermal expansion after firing [20-1000 °C]		0.73	%

Commercial Code : MAF70026 Version : 11 Date : 08/11/2013

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