



TECHNICAL DATA

CALDE® CAST AF 470

PRODUCT TYPE	: Alumina - Silica product Low cement castable
Maximum recommended temperature	: 1650°C
Main component	: Andalusite , Bauxite
Type of bond	: Hydraulic
Appearance	: Dry, for addition of water
Packaging	: Sacks
Shelf life	: 6 months
Installation method	: Casting (Rodding , minimum vibration)
Maximum grain size	: 6 mm
Material required	: 2.60 T/m³
Drinking water required for mixing on site	: 6.0 / 7.2 litres per 100 kg of dry material
Guidelines	: Installation Nr 21

PRODUCT PROPERTIES	STANDARD	AVERAGE VALUES	UNITS
<u>CHEMICAL ANALYSIS</u>			
Al ₂ O ₃	EN ISO 1927-3	70.0	%
SiO ₂	EN ISO 1927-3	24.0	%
CaO	EN ISO 1927-3	1.8	%
Fe ₂ O ₃	EN ISO 1927-3	1.2	%
<u>PHYSICAL PROPERTIES</u>			
<u>Measured on samples prepared according to</u>	EN ISO 1927-5	-	-
<u>Bulk density</u>			
after firing at 800 °C	EN ISO 1927-6	2.60	g/cm ³
<u>Open porosity</u>			
after firing at 800 °C	EN ISO 1927-6	22	%
<u>Cold crushing strength</u>			
after firing at 800 °C	EN ISO 1927-6	85	MPa
after firing at 1200 °C	EN ISO 1927-6	100	MPa
after firing at 1600 °C	EN ISO 1927-6	130	MPa
<u>Permanent linear change</u>			
after firing at 800 °C	EN ISO 1927-6	-0.2	%
after firing at 1200 °C	EN ISO 1927-6	-0.2	%
after firing at 1600 °C	EN ISO 1927-6	0.6	%
<u>Thermal conductivity</u>			
at a mean temperature of 800 °C	EN ISO 1927-8	1.94	W/mK
at a mean temperature of 1000 °C	EN ISO 1927-8	1.90	W/mK
at a mean temperature of 1200 °C	EN ISO 1927-8	1.94	W/mK
<u>Reversible thermal expansion after firing [20-1000 °C]</u>		0.70	%

Commercial Code : MAL70038

Version : 11

Date : 27/11/2013

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

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