



TECHNICAL DATA

CALDE™ CAST NB 82 QD

PRODUCT TYPE	: Alumina - Silica product
	: No cement castable
Maximum recommended temperature	: 1650°C
Main component	: Bauxite
Type of bond	: Mineral reaction
Appearance	: Dry, for addition of water
Packaging	: Sacks
Shelf life	: 4 months
Installation method	: Vibrating
Maximum grain size	: 6 mm
Material required	: 2.80 T/m ³
Drinking water required for mixing on site	: 6.0 / 7.0 litres per 100 kg of dry material
Guidelines	: Installation Nr 6-QD

PRODUCT PROPERTIES	STANDARD	AVERAGE VALUES	UNITS
CHEMICAL ANALYSIS			
-			
Al ₂ O ₃	EN 1402-3	82.0	%
SiO ₂	EN 1402-3	13.5	%
Fe ₂ O ₃	EN 1402-3	1.0	%
CaO	EN 1402-3	0.2	%
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	2.81	g/cm ³
after firing at 800 °C	EN 1402-6	2.82	g/cm ³
<u>Cold crushing strength</u>			
after drying at 110 °C	EN 1402-6	100	MPa
after firing at 800 °C	EN 1402-6	106	MPa
after firing at 1200 °C	EN 1402-6	160	MPa
after firing at 1400 °C	EN 1402-6	140	MPa
<u>Permanent linear change</u>			
after firing at 800 °C	EN 1402-6	-0.17	%
after firing at 1200 °C	EN 1402-6	-0.13	%
after firing at 1400 °C	EN 1402-6	+0.17	%
<u>Thermal conductivity</u>			
at a mean temperature of 800 °C	EN 993-15	2.53	W/mK
at a mean temperature of 1000 °C	EN 993-15	2.42	W/mK
at a mean temperature of 1200 °C	EN 993-15	2.35	W/mK
<u>Abrasion resistance after firing at 800°C</u>	ASTM C 704	< 6.2	cm ³
<u>Reversible thermal expansion after firing [20-1000°C]</u>	-	0.76	%

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

CALDERYS