calderys
REFRACTORY SOLUTIONS

TECHNICAL DATA

CALDE™ SPRAYCAST F 60 R

PRODUCT TYPE	: Alumina - Silica product
	: Low cement castable
Maximum recommended temperature	: 1650°C
Main component	: High alumina raw materials
Type of bond	: Hydraulic
Appearence	: Dry, for addition of water
Packaging	: Sacks or big bags
Shelf life	: 6 months.
Installation method	: Vibrating , Spraycasting
Maximum grain size	: 6 mm
Material required	:
Vibrated	: 2.40 T/m³
Spraycast	: 2.54 T/m³
Drinking water required for mixing on site	: 5.6 / 6.4 litres per 100 kg of dry material
Observation	: Spraycast : Special liquid admix is required
Guidelines	: Installation Nr 6 & Nr 12

PRODUCT PROPERTIES	STANDARD	AVERAGE VALUES Vibrated	Spraycast	UNITS
CHEMICAL ANALYSIS				
-				
Al2O3	EN 1402-3	62.0		%
SiO2	EN 1402-3	32.0		%
CaO	EN 1402-3	1.9		%
Fe2O3	EN 1402-3	0.9		%
PHYSICAL PROPERTIES				
Measured on samples prepared according to	EN 1402-5	-	-	-
Bulk density				
after drying at 110 °C	EN 1402-6	2.44	2.46	g/cm3
after firing at 800 °C	EN 1402-6	2.40	2.42	g/cm3
Open porosity				
after firing at 800 °C	EN 1402-6	20	20	%
Cold crushing strength				
after drying at 110 °C	EN 1402-6	50	40	MPa
after firing at 800 °C	EN 1402-6	100	70	MPa
after firing at 1200 °C	EN 1402-6	100	90	MPa
after firing at 1600 °C	EN 1402-6	100	110	MPa
Permanent linear change				
after firing at 800 °C	EN 1402-6	-0.1	-0.2	%
after firing at 1200 °C	EN 1402-6	-0.2	-0.3	%
after firing at 1600 °C	EN 1402-6	-0.3	-1.1	%
Thermal conductivity				
at a mean temperature of 800 °C	EN 993-15	1.52	1.56	W/mK
at a mean temperature of 1000 °C	EN 993-15	1.53	1.57	W/mK
at a mean temperature of 1200 °C	EN 993-15	1.64	1.67	W/mK
Carbon monoxide resistance	ASTM C 288	A/B	A/B	-
Abrasion resistance after firing at 800°C	ASTM C 704	< 8	< 8	cm3
Reversible thermal expansion after firing [20-1000°C]	-	0.65	0.65	%

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

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