TECHNICAL DATA

CALDE® SOL CAST M 60 CO

PRODUCT TYPE	: Alumina - Silica product No cement castable
Maximum recommended temperature	: 1650°C
Main component	: High alumina raw materials
Type of bond	: Mineral reaction
Appearence	: 2 components: Dry powder and wet binder
Packaging	: Aggregate: sack - Binder: drum
Shelf life	: 18 months
Installation method	: Vibrating
Maximum grain size	: 6 mm
Material required	: 2.45 t/m3
Quantity of binder to be added	: 8.5 / 9.5 kg per 100 kg of dry material
Observation	: (6.5 / 7.3 litres per 100 kg of dry material)
Guidelines	: Installation Nr 45

PRODUCT PROPERTIES	**STANDARD**	**AVERAGE VALUES**	**UNITS**
CHEMICAL ANALYSIS			
Al_2O_3	EN ISO 1927-3	60.0	%
SiO_2	EN ISO 1927-3	36.0	%
TiO_2	EN ISO 1927-3	2.1	%
Fe_2O_3	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	2.45	g/cm3
Open porosity			
after firing at 800 °C	EN ISO 1927-6	16	%
Cold crushing strength			
after drying at 110 °C	EN ISO 1927-6	55	MPa
after firing at 800 °C	EN ISO 1927-6	80	MPa
after firing at 1200 °C	EN ISO 1927-6	85	MPa
after firing at 1600 °C	EN ISO 1927-6	125	MPa
Permanent linear change			
after firing at 800 °C	EN ISO 1927-6	-0.0	%
after firing at 1200 °C	EN ISO 1927-6	-0.3	%
after firing at 1600 °C	EN ISO 1927-6	+0.1	%
Thermal conductivity			
at a mean temperature of 800 °C	EN ISO 1927-8	1.61	W/mK
at a mean temperature of 1000 °C	EN ISO 1927-8	1.62	W/mK
at a mean temperature of 1200 °C	EN ISO 1927-8	1.71	W/mK
Reversible thermal expansion after firing [20-1000 °C]		0.55	%

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