TECHNICAL DATA

CALDE® PLAST SUPERAL X AB

PRODUCT TYPE	: Alumina - Silica product Plastic material
Maximum recommended temperature	: 1650°C
Main component	: Bauxite
Type of bond	: Ceramic
Appearence	: Wet, ready to use
Packaging	: Boxes (in slices)
Shelf life	: 12 months
Installation method	: Ramming
Maximum grain size	: 6 mm
Material required	: 2.65 T/m³
Guidelines	: Installation Nr 1

PRODUCT PROPERTIES	STANDARD	AVERAGE VALUES	UNITS
CHEMICAL ANALYSIS			
Al2O3	EN ISO 1927-3	73.0	%
SiO2	EN ISO 1927-3	22.0	%
TiO2	EN ISO 1927-3	2.8	%
Fe2O3	EN ISO 1927-3	1.5	%
PHYSICAL PROPERTIES			
Measured on samples prepared according to	EN ISO 1927-5	-	-
Bulk density			
after drying at 110 °C	EN ISO 1927-6	2.50	g/cm3
after firing at 1000 °C	EN ISO 1927-6	2.37	g/cm3
Cold crushing strength			
after drying at 110 °C	EN ISO 1927-6	13	MPa
after firing at 1000 °C	EN ISO 1927-6	30	MPa
after firing at 1200 °C	EN ISO 1927-6	20	MPa
after firing at 1400 °C	EN ISO 1927-6	20	MPa
Permanent linear change			
after firing at 1000 °C	EN ISO 1927-6	-1.4	%
after firing at 1200 °C	EN ISO 1927-6	-1.5	%
after firing at 1400 °C	EN ISO 1927-6	+0.6	%
Thermal conductivity			
at a mean temperature of 800 °C	EN ISO 1927-8	1.56	W/mK
at a mean temperature of 1000 °C	EN ISO 1927-8	1.57	W/mK
at a mean temperature of 1200 °C	EN ISO 1927-8	1.67	W/mK
Reversible thermal expansion after firing [20-1000 °C]		0.71	%

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