TECHNICAL DATA

CALDE® GUN SUPERAL X 70

PRODUCT TYPE	: Alumina - Silica product Special material
Maximum recommended temperature	: 1650°C
Main component	: High alumina raw materials
Type of bond	: Ceramic
Appearence	: Dry, for addition of water
Packaging	: Sacks
Shelf life	: 12 months
Installation method	: Gunning
Maximum grain size	: 6 mm
Material required	: 2.40 T/m³ (Rebound included)
Drinking water required for mixing on site	: Added at the nozzle
Guidelines	: Installation Nr 23

PRODUCT PROPERTIES	STANDARD	AVERAGE VALUES	UNITS
CHEMICAL ANALYSIS			
Al2O3	EN ISO 1927-3	69.0	%
SiO2	EN ISO 1927-3	26.0	%
Fe2O3	EN ISO 1927-3	1.2	%
CaO	EN ISO 1927-3	0.9	%
PHYSICAL PROPERTIES			
Measured on samples prepared by gunning	CALD 010		-
Bulk density			
after drying at 110 °C	EN ISO 1927-6	2.25	g/cm3
after firing at 800 °C	EN ISO 1927-6	2.20	g/cm3
Open porosity			
after firing at 800 °C	EN ISO 1927-6	29	%
Cold crushing strength			
after firing at 800 °C	EN ISO 1927-6	6	MPa
after firing at 1200 °C	EN ISO 1927-6	12	MPa
after firing at 1600 °C	EN ISO 1927-6	13	MPa
Permanent linear change			
after firing at 800 °C	EN ISO 1927-6	-0.3	%
after firing at 1200 °C	EN ISO 1927-6	-0.4	%
after firing at 1600 °C	EN ISO 1927-6	+0.6	%
Thermal conductivity			
at a mean temperature of 800 °C	EN ISO 1927-8	1.00	W/mK
at a mean temperature of 1000 °C	EN ISO 1927-8	1.07	W/mK
at a mean temperature of 1200 °C	EN ISO 1927-8	1.12	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.

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