TECHNICAL DATA

CALDE® SOL GUN M 55 S5

PRODUCT TYPE	: Alumina - Silica product No cement castable
Maximum recommended temperature	: 1600°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	: Gunning
Maximum grain size	: 6 mm
Material required	: 2.80 t/m3 (Dry, Rebound included)
Quantity of binder to be added	: 12.0 / 13.0 kg per 100 kg of dry material, added at the nozzle
Guidelines	: Installation Nr 50
Recommendation	: To be used with second component CALDE®SOL BINDER 1 (see its separated TDS/SDS)

PRODUCT PROPERTIES	STANDARD	AVERAGE VALUES	UNITS
CHEMICAL ANALYSIS			
Al2O3	EN ISO 1927-3	58.0	%
SiO2	EN ISO 1927-3	34.0	%
SiC	EN ISO 1927-3	4.6	%
Fe2O3	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	2.30	g/cm3
after firing at 800 °C	EN ISO 1927-6	2.35	g/cm3
Cold crushing strength			
after drying at 110 °C	EN ISO 1927-6	60	MPa
after firing at 800 °C	EN ISO 1927-6	85	MPa
after firing at 1200 °C	EN ISO 1927-6	85	MPa
after firing at 1400 °C	EN ISO 1927-6	90	MPa
Permanent linear change			
after firing at 800 °C	EN ISO 1927-6	-0.2	%
after firing at 1200 °C	EN ISO 1927-6	-0.4	%
after firing at 1400 °C	EN ISO 1927-6	-0.3	%
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	1.58	W/mK
at a mean temperature of 1200 °C	EN ISO 1927-8	1.71	W/mK
Abrasion resistance			
after firing at 815°C	EN ISO 16282	< 8 cm3	cm3
Reversible thermal expansion after firing [20-1000 °C]		0.68	%

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