

TECHNICAL DATA

CALDE® SOL GUN F 40 A

PRODUCT TYPE

	: Alumina - Silica product
	No cement castable
Maximum recommended temperature	: 1500°C
Main component	: Chamotte
Type of bond	: Mineral reaction
Appearance	: 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	: 2.55 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
Observation	: Alkali resistant
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			
SiO2	EN ISO 1927-3	57.0	%
Al2O3	EN ISO 1927-3	40.0	%
Fe2O3	EN ISO 1927-3	0.8	%
PHYSICAL PROPERTIES			
<u>Measured on samples prepared by gunning</u>	CALD 010		-
<u>Bulk density</u>			
after drying at 110 °C	EN ISO 1927-6	2.10	g/cm3
after firing at 800 °C	EN ISO 1927-6	2.10	g/cm3
<u>Open porosity</u>			
after firing at 800 °C	EN ISO 1927-6	20	%
<u>Cold crushing strength</u>			
after drying at 110 °C	EN ISO 1927-6	55	MPa
after firing at 800 °C	EN ISO 1927-6	65	MPa
after firing at 1200 °C	EN ISO 1927-6	65	MPa
after firing at 1400 °C	EN ISO 1927-6	80	MPa
<u>Permanent linear change</u>			
after firing at 800 °C	EN ISO 1927-6	-0.1	%
after firing at 1200 °C	EN ISO 1927-6	-0.4	%
after firing at 1400 °C	EN ISO 1927-6	-0.3	%
<u>Thermal conductivity</u>			
at a mean temperature of 800 °C	EN ISO 1927-8	1.06	W/mK
at a mean temperature of 1000 °C	EN ISO 1927-8	1.11	W/mK
at a mean temperature of 1200 °C	EN ISO 1927-8	1.26	W/mK
<u>Reversible thermal expansion after firing [20-1000 °C]</u>		0.64	%

Commercial Code : MAG30085

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