

SY-01



TECHNICAL DATA

CALDE™ CAST LA 50 SZ

PRODUCT TYPE	: Alumina - Silica product Low cement castable
Maximum recommended temperature	: 1650°C
Main component	: Andalusite, AZS
Type of bond	: Hydraulic
Appearance	: Dry, for addition of water
Packaging	: Sacks
Shelf life	: 6 months
Installation method	: Vibrating
Maximum grain size	: 6 mm
Material required	: 2.70 T/m³
Drinking water required for mixing on site	: 4.5 / 5.5 litres per 100 kg of dry material
Observation	: Alkali resistant
Guidelines	: Installation Nr 6

PRODUCT PROPERTIES	STANDARD	AVERAGE VALUES	UNITS
CHEMICAL ANALYSIS			
Al ₂ O ₃	EN ISO 1927-3	50.0	%
SiO ₂	EN ISO 1927-3	27.5	%
SiC	EN ISO 1927-3	9.7	%
ZrO ₂	EN ISO 1927-3	9.4	%
CaO	EN ISO 1927-3	1.2	%
PHYSICAL PROPERTIES			
<u>Measured on samples prepared according to</u>			
<u>Bulk density</u>	EN ISO 1927-5	-	-
after firing at 800 °C	EN ISO 1927-6	2.70	g/cm ³
<u>Open porosity</u>			
after firing at 800 °C	EN ISO 1927-6	16	%
<u>Cold crushing strength</u>			
after firing at 800 °C	EN ISO 1927-6	80	MPa
after firing at 1200 °C	EN ISO 1927-6	100	MPa
after firing at 1500 °C	EN ISO 1927-6	130	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	+0.0	%
after firing at 1500 °C	EN ISO 1927-6	+0.5	%
<u>Thermal conductivity</u>			
at a mean temperature of 800 °C	EN ISO 1927-8	2.42	W/mK
at a mean temperature of 1000 °C	EN ISO 1927-8	2.34	W/mK
at a mean temperature of 1200 °C	EN ISO 1927-8	2.32	W/mK
<u>Reversible thermal expansion after firing [20-1000 °C]</u>		0.67	%

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