



TECHNICAL DATA

CALDE® CAST R 40 IT

PRODUCT TYPE	: Alumina - Silica product Regular Castable
Maximum recommended temperature	: 1370°C
Main component	: Chamotte
Type of bond	: Hydraulic
Appearance	: Dry, for addition of water
Packaging	: Sacks
Shelf life	: 12 months
Installation method	: Vibrating
Maximum grain size	: 5 mm
Material required	: 1.95 T/m³
Drinking water required for mixing on site	: 15.2 / 18.0 litres per 100 kg of dry material
Guidelines	: Installation Nr 5

PRODUCT PROPERTIES	STANDARD	AVERAGE VALUES	UNITS
<u>CHEMICAL ANALYSIS</u>			
SiO ₂	EN ISO 1927-3	44.0	%
Al ₂ O ₃	EN ISO 1927-3	39.0	%
CaO	EN ISO 1927-3	9.0	%
Fe ₂ O ₃	EN ISO 1927-3	5.0	%
<u>PHYSICAL PROPERTIES</u>			
<u>Measured on samples prepared according to</u>	EN ISO 1927-5	-	-
<u>Bulk density</u>			
after drying at 110 °C	EN ISO 1927-6	2.00	g/cm ³
after firing at 800 °C	EN ISO 1927-6	1.90	g/cm ³
<u>Cold crushing strength</u>			
after drying at 110 °C	EN ISO 1927-6	30	MPa
after firing at 800 °C	EN ISO 1927-6	20	MPa
after firing at 1200 °C	EN ISO 1927-6	18	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	+0.8	%
<u>Thermal conductivity</u>			
at a mean temperature of 800 °C	EN ISO 1927-8	0.88	W/mK
at a mean temperature of 1000 °C	EN ISO 1927-8	0.94	W/mK
at a mean temperature of 1200 °C	EN ISO 1927-8	1.11	W/mK
<u>Reversible thermal expansion after firing [20-1000 °C]</u>		0.60	%

Commercial Code : MAC40100

Version : 11

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

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