

# **CALDE® CAST G UB 69S20**

<b>PRODUCT TYPE</b>	: Carbon containing product Ultra low cement castable
Maximum recommended temperature	: 1650°C
Main component	: Bauxite
Type of bond	: Hydraulic
Appearance	: Dry, for addition of water
Packaging	: Sacks or big bags
Shelf life	: 4 Months (separated binder extends shelf life by 8 months)
Installation method	: Vibrating
Maximum grain size	: 10 mm
Material required	: 2.90 T/m <sup>3</sup>
Drinking water required for mixing on site	: 4.7 / 5.5 litres per 100 kg of dry material
Observation	: Attention: This product produces hydrogen during its setting phase
Guidelines	: Installation Nr 22 - Safety Nr 1

PRODUCT PROPERTIES	STANDARD	AVERAGE VALUES	UNITS
<b>CHEMICAL ANALYSIS</b>			
Al <sub>2</sub> O <sub>3</sub>	EN ISO 1927-3	68.5	%
SiC	EN ISO 1927-3	19.5	%
SiO <sub>2</sub>	EN ISO 1927-3	5.5	%
C	EN ISO 1927-3	2.8	%
CaO	EN ISO 1927-3	0.5	%
<b>PHYSICAL PROPERTIES</b>			
Measured on samples prepared according to	EN ISO 1927-5		-
<u>Bulk density</u>			
after drying at 110 °C	EN ISO 1927-6	2.95	g/cm <sup>3</sup>
after firing at 800 °C	EN ISO 1927-6	2.90	g/cm <sup>3</sup>
<u>Open porosity</u>			
after firing at 800 °C	EN ISO 1927-6	18.5	%
<u>Cold crushing strength</u>			
after drying at 110 °C	EN ISO 1927-6	40	MPa
after firing at 800 °C	EN ISO 1927-6	35	MPa
after firing at 1200 °C	EN ISO 1927-6	55	MPa
after firing at 1500 °C	EN ISO 1927-6	70	MPa
<u>Permanent linear change</u>			
after firing at 800 °C	EN ISO 1927-6	-0.3	%
after firing at 1200 °C	EN ISO 1927-6	-0.1	%
after firing at 1500 °C	EN ISO 1927-6	-0.2	%
<u>Thermal conductivity</u>			
at a mean temperature of 800 °C	EN ISO 1927-8	4.12	W/mK
at a mean temperature of 1000 °C	EN ISO 1927-8	4.05	W/mK
at a mean temperature of 1200 °C	EN ISO 1927-8	3.90	W/mK

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

