

# GUN C 20 & CAST BETON N

Alumina – Silica Product  
Regular Castable



## Calderys GUN C 20 CAST BETON N

<b>Max. Recommended Temperature:</b> .....	°C	1350	1350
	°F	2462	2462

<b>Chemical Analysis:</b> <i>EN ISO 1927-3</i>	SiO <sub>2</sub> ( Silicon Dioxide ) .....	47.5	44.5
	Al <sub>2</sub> O <sub>3</sub> ( Aluminium Oxide ) .....	38.5	39.5
	Fe <sub>2</sub> O <sub>3</sub> ( Iron Oxide ) .....	4.8	4.5
	CaO ( Calcium Oxide ) .....	8.1	8.1

### Physical properties

- measured on samples prepared by gunning:  
- measured on samples prepared according to:

CALD 010

EN ISO 1927-5

<b>Bulk Density:</b> <i>EN ISO 1927-6</i>	after drying at 110°C.....	g/cm <sup>3</sup>	2.05	2.02
	after firing at 800°C.....	g/cm <sup>3</sup>	1.95	1.93

<b>Cold Crushing Strength:</b> <i>EN ISO 1927-6</i>	after drying at 110°C.....	MPa	40	35
	after drying at 800°C.....	MPa	25	25
	after drying at 1200°C.....	MPa	20	25
	after drying at 1300°C.....	MPa	25	30

<b>Permanent Linear Change:</b> <i>EN ISO 1927-6</i>	after firing at 800°C.....	%	-0.1	-0.1
	after firing at 1200°C.....	%	-0.2	-0.2
	after firing at 1300°C.....	%	-0.1	+0.5

<b>Thermal Conductivity:</b> <i>EN ISO 1927-8</i>	at a mean temp. of 800°C.....	W/mK	0.88	0.86
	at a mean temp. of 1000°C...	W/mK	0.94	0.92
	at a mean temp. of 1200°C...	W/mK	1.11	1.09

<b>Reversible Thermal Expansion after firing:</b> .....	%	0.60	0.61
<i>(20-1000°C)</i>			

p.t.o

**Calderys**  
**GUN C 20 CAST BETON N**

**simonsen®**

<b>Main component:</b>	.....	Chamotte	Chamotte
<b>Type of bond:</b>	.....	Hydraulic	Hydraulic
<b>Appearance:</b>	.....	Dry, for add. of water	Dry, for add. of water
<b>Packaging:</b>	.....	Sacks	Sacks
<b>Shelf life:</b>	.....	12 months	12 months
<b>Installation method:</b>	.....	Gunning	Vibrating
<b>Maximum grain size:</b>	.....	6 mm	6 mm
<b>Material required:</b>	.....	2.25 T/m <sup>3</sup>	1.95 T/m <sup>3</sup>
	.....	(Rebound included)	
<b>Drinking water required for mixing on site:</b>	.....	Added at the nozzle	13.6/16.4 litres per
	.....		100 kg of dry material
<b>Guidelines:</b>	.....	Installation No. 23	Installation No. 5

**simonsen a/s**

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