



BORGESTAD
FABRIKKER

Borgcrete 50

PRODUCT TYPE	:	Castable
Maximum recommended temperature	:	1500 °C
Main component	:	Chamotte
Refractoriness, Seger Cone	:	34
Type of bond	:	Hydraulic
Installation method	:	Casting, cast-vibration and gunning.
Packing	:	25 kg sack or big-bag
Storage	:	1 year minimum in temperate conditions.
Maximum grain size	:	6 mm
Material required per m ³ , casting	:	2200 kg
Water required for mixing on site, casting	:	13-14 %

Chemical analysis

Calcined basis, unit%

Al ₂ O ₃	SiO ₂	SiC	MgO	ZrO ₂	Cr ₂ O ₃	CaO	TiO ₂	Fe ₂ O ₃	P ₂ O ₅	Alkalies
50,0	38,0					7,0		1,3		

Physical properties

				Average value cast	Units
Bulk density – after drying at 110 °C				2,15/2,20	Kg/dm ³
Open porosity	- after firing at	110	°C	9,0	%
	- after firing at				
Cold crushing strength	- after firing at	110	°C	60-65	MPa
	- after firing at	800		40-50	
	- after firing at	1500		50-55	
	- after firing at				
Modulus of rupture	- after firing at	110	°C	13-15	MPa
	- after firing at	800		10-12	
	- after firing at	1350		14-15	
E-modulus	- after firing at		°C		MPa
	- after firing at				
	- after firing at				
Permanent linear change	- after firing at	110	°C	0	%
	- after firing at	800		-0,1	
	- after firing at	1350		-0,8	
	- after firing at	1500		-1,5	
Thermal conductivity	- at a mean temperature of	200	°C	0,88	W/m*K
	- at a mean temperature of	800		1,00	
	- at a mean temperature of	1400		1,12	

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

Sept. 1998