



**BORGESTAD**  
FABRIKKER

# BORGPAAK 45

PRODUCT TYPE .....	:	Unburned plastic chamotte brick
Maximum recommended temperature .....	:	1400 °C
Main component .....	:	Chamotte
Refractoriness, Seger Cone .....	:	34 (ca. 1750 degrees Celsius)
Type of bond .....	:	Temporary chemical binder
Installation method .....	:	Look at the user instruction
Packing .....	:	25 kilos (12 litres)
Storage .....	:	Non-freezing, but cold conditions.
Maximum grain size .....	:	mm
Material required per m <sup>3</sup> , casting .....	:	Consumption per cubic meter: 2000 kg
Water required for mixing on site, casting .....	:	%

## Chemical analysis

Calcined basis, unit%

Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	SiC	MgO	ZrO <sub>2</sub>	Cr <sub>2</sub> O <sub>3</sub>	CaO	TiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	P <sub>2</sub> O <sub>5</sub>	Alkalies
43	54							1,5		

## Physical properties

				Average value cast	Units
Bulk density – after drying at 110 °C					Kg/dm <sup>3</sup>
Open porosity	- after firing at		°C		%
	- after firing at				
Cold crushing strength	- after firing at	600	°C	14	MPa
	- after firing at	1000		25	
	- after firing at	1300		27	
	- after firing at				
Modulus of rupture	- after firing at		°C		MPa
	- after firing at				
	- after firing at				
E-modulus	- after firing at		°C		MPa
	- after firing at				
	- after firing at				
Permanent linear change	- after firing at	100	°C	2	%
	- after firing at				
	- after firing at				
	- after firing at				
Thermal conductivity	- at a mean temperature of	200	°C	0,41	W/m*K
	- at a mean temperature of	400		0,53	
	- at a mean temperature of	800		0,88	

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

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