

Technical data

BSA 1650 from HASLE Refractories A/S

	HASLE	
	BSA 1650	
Chemical analysis:		
Al ₂ O ₃	%	61
TiO ₂	%	1,0
SiO ₂	%	29
Fe ₂ O ₃	%	1,0
CaO.....	%	6,2
SiC.....	%	-
Physical data:		
Refractoriness	PCE	35
Max. service temperature	°C	1650
Bulk density	kg/m ³	2,3
Max. grain size	mm	5
Modulus of rupture		
after heating to:		
110°C MPa		9
500°C MPa		4
1000°C MPa		6
1500°C MPa		8
Cold crushing strength		
after heating to:		
110°C MPa		80
500°C MPa		60
1000°C MPa		50
1500°C MPa		60
Drying shrinkage:	110°C %	0,2
Linear shrinkage		
excl. drying shrinkage		
after heating to:		
500°C %		0,1
1000°C %		0,1
1500°C %		1,8
Thermal conductivity:	400°C W/mK	1,05
	800°C W/mK	1,10
	1200°C W/mK	1,16
Alkali test (scale 0-10)		5
Resistance to abrasion	g/cm ²	0,20
Resistance to thermal shock		extra high
Reversible linear expansion		
to 1000°C.....	%	0,78
Average water addition	%	8

Alkali test

The alkali test according to DIN 51069, page 2, as slight, medium or heavy. This evaluation is supplemented with the 0-10 points scale of HASLE Refractories A/S, which system is principle states the depth of attack in mm. The above data are subject to normal deviation and should not be used as specifications.

The technical data represent average reference values established by DIN- and EN-test procedures in our ceramic laboratory. They serve to give general information, they are liable to natural deviations, and they are not to be cited as guaranteed properties or guaranteed values.