

# SKAMOBAR-69 Splits Low-alumina barrier brick

## Barrier brick for aluminium reduction cells



Maximum service temperature		
	°C	1100
	°F	2012
Bulk density (EN 993-1 1995)		
	kg/m <sup>3</sup>	2100
	lbs/cu.ft.	131
Apparent porosity (EN 993-1 1995)		
	%	19
Cold crushing strength (EN 993-5 1998)		
	MPa	45
	lbs/sq.in.	6525
Permeability to gases (EN 993-4 1995)		
	nPm	-
Thermal expansion (ASTM C-372 2001)		
@ 20°C-850°C (68°F-1562°F)	%	0.4
Cryolite resistance (SINTEF)		
	Dissolved cm <sup>2</sup>	6.0
	Dissolved sq.in.	0.9
Thermal conductivity (EN 993-15 1998)		
mean temp. @ 200°C	W/(mK)	1.4
mean temp. @ 600°C	W/(mK)	1.5
mean temp. @ 900°C	W/(mK)	1.6
mean temp. @ 392°F	BTU/(sq.ft.h°F/in.)	9.7
mean temp. @ 1112°F	BTU/(sq.ft.h°F/in.)	10.4
mean temp. @ 1652°F	BTU/(sq.ft.h°F/in.)	11.1
Chemical analysis (XRF, AAS, EN 955-2 1995)	%	
Silica	SiO <sub>2</sub>	> 68
Alumina	Al <sub>2</sub> O <sub>3</sub>	26
Calcium oxide	CaO	-
Potassium oxide	K <sub>2</sub> O	2.0
Sodium oxide	Na <sub>2</sub> O	2.5
Magnesium oxide	MgO	-
Ferric oxide	Fe <sub>2</sub> O <sub>3</sub>	2.0
Titanium oxide	TiO <sub>2</sub>	-
Dimensional tolerances		
Dimensions <200mm	mm	see description
Dimensions >200mm	%	see description
Dimensions	Length x width, mm	Thickness, mm
	220 x 100	see description
	230 x 114	-
	375 x 250	-
	400 x 250	-
	400 x 400	-
	500 x 250	-
	500 x 375	-
	500 x 500	-
Colour		reddish brown

\*b.d.: Below detection limit: 0.05 nPm

The manufacturer, P-D Refractories CZ a.s., Czech Republic, is certified according to ISO 9002 and approved supplier by Skamol A/S. Data are average results of tests conducted on standard bricks (230 mm x 114 mm x 76 mm), under standard procedures and are subject to variation. All data are supplied in good faith and are subject to change without notice. No warranty or guarantee is implied. Misprint and errors excepted.

**Skamol A/S**  
 Østergade 58-60  
 DK-7900 Nykøbing Mors  
 Denmark  
 Tel: 45 9772 1533  
 Fax: 45 9772 4975  
 insulation@skamol.dk

#### Sales offices

**Skamol Europe GmbH**  
 Düsseldorfferstrasse 88  
 D-40667 Meerbusch  
 Germany  
 Tel: +49 (0) 2132-13694 0  
 Fax: +49 (0) 2132-13694 64

**Skamol Americas, Inc.**  
 10100 Park Cedar Drive  
 Suite 124  
 Charlotte, NC 28210  
 USA  
 Tel: +1 (704) 544-1015  
 Fax: +1 (704) 544-1239

[www.skamol.com](http://www.skamol.com)

Skamol A/S is DS/EN ISO 9001 certified.