



## ALSIFLEX<sup>®</sup> Mat

Refractory Ceramic Fiber Bankets made by "Spinning" process

ALSIFLEX <sup>®</sup>		1150 <sup>1</sup>	1260 <sup>2</sup>	1430 <sup>2</sup>
Classification Temperature	°C	1150	1260	1430
Refractoriness	SK	-	36 min. (1790°C)	38 min.(1850°C)
Average mean fiber diameter	μ	-	3	3
Average mean fiber length	mm	Max. 300	Max. 300	Max. 300
Average shot content for 70 mesh (212μ)	%	-	10 max	10 max
Traction index	kPa	96 Kg /m <sup>3</sup>	70	70
		128 Kg /m <sup>3</sup>	100	100
		160 Kg /m <sup>3</sup>	125	125
Specific Heat	kJ / Kg°K	1.15	1.13	1.04
Linear Shrinkage isothermal exposure, 24 hours	%	-	1000°C / 1.3	1200°C / 1.0
		-	1100°C / 2.1	1300°C / 2.0
		1150°C / 3.2	1200°C / 3.0	1400°C / 2.6

Thermal conductivity at mean temperature of :

		96 Kg/cm	128 Kg/cm	160 Kg/cm
200°C	W/mK	0,08	0.06	0.06
400°C		0,10	0.09	0.08
600°C		0,15	0.14	0.13
800°C		0,22	0.19	0.17
1000°C		0,30	0.27	0.24

Typical chemical composition

	%	45 - 48	46 - 49	33 - 38
Al <sub>2</sub> O <sub>3</sub>				
SiO <sub>2</sub>		48 - 60	47 - 58	44 - 49
ZrO <sub>2</sub>		-	-	16 - 20

<sup>1</sup> kaolin based product – <sup>2</sup> "High Purity" product

### Workability:



### Standard sizes:

Density 96 – 128 - 160			
thickness (mm)	Length (mm)	Width (mm)	m <sup>2</sup>
13	14.640	610	8,93
19	5.880	610	3,58
25	7.320	610	4,49
50	3.660	610	2,23

Other sizes available on request

The above data are given in good faith and refer to internal standard test procedures based on internationally recognized testing methods; they are subjected to normal fluctuation during the production process. No warranty are herewith given regarding specific applications without our prior written approval. Our data sheets cannot be used for technical specifications purposes without our authorization. All right reserved – Promat is a registered trademark.

