



**P-D Refractories CZ a.s.**

**Technical Data**

**Special Fireclay Bricks**

Brand

**SIII-KS**

<b>Bulk Density</b>		<b>kg/m<sup>3</sup></b>	<b>2100</b>										
<b>Apparent Porosity</b>		<b>%</b>	<b>22</b>										
<b>Cold Crushing Strength</b>		<b>MPa</b>	<b>25</b>										
<b>Chemical Composition</b>	$Al_2O_3$	<b>%</b>	<b>36</b>										
	$Fe_2O_3$	<b>%</b>	<b>2</b>										
	MgO	<b>%</b>	<b>1.4</b>										
<b>Refractoriness</b>		<b>ISO</b>	<b>164</b>										
<b>Permanent change in dimensions on heating</b> <i>at 1100 °C/2 hrs</i>		<b>%</b>	<b>&lt; 0.7</b>										
<b>Thermal Conductivity</b>		<b>W/K.m</b>	<table border="1"> <tr> <td>200°C</td> <td>400°C</td> <td>600°C</td> <td>800°C</td> <td>1000°C</td> </tr> <tr> <td>1.17</td> <td>1.23</td> <td>1.30</td> <td>1.39</td> <td>1.47</td> </tr> </table>	200°C	400°C	600°C	800°C	1000°C	1.17	1.23	1.30	1.39	1.47
200°C	400°C	600°C	800°C	1000°C									
1.17	1.23	1.30	1.39	1.47									
<b>Thermal Shock Resistance</b>		<b>cycles</b>	<b>&gt; 30</b>										

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

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Pavel Müller – technician of standardization (Department 08)