



**MOSCONI** s.r.l.



# SUPER INSULATING BRICK

## AB-45

Effective: November 2015

			AB-45
<b>Classification</b>	ISO 2245 : 2006		<b>90-L</b>
<b>Density</b>	ISO 5016 : 1995	Kg/m <sup>3</sup>	<b>450</b>
<b>Max. service temperature</b>		°C	<b>950</b>
<b>Cold crushing strength</b>	ISO 8895 : 2006	MPa	<b>1.8</b>
<b>Linear Reheat Change</b> 12h soak @ Temperature (°C)	ISO 2477 : 2005	%	<b>-0.5</b> <b>900</b>
<b>Thermal Conductivity</b> Mean Temperature 200°C 400°C 600°C 800°C	ASTM C 182-88 : 2009	W/m <sup>2</sup> K	<b>0.14</b> <b>0.15</b> <b>0.17</b>
<b>Chemical Analysis</b> SiO <sub>2</sub> Al <sub>2</sub> O <sub>3</sub> TiO <sub>2</sub> Fe <sub>2</sub> O <sub>3</sub> CaO MgO K <sub>2</sub> O Na <sub>2</sub> O P <sub>2</sub> O <sub>5</sub>	XRF	%	<b>64.5</b> <b>17.3</b> <b>0.6</b> <b>3.3</b> <b>5.5</b> <b>1.6</b> <b>3.8</b> <b>1.9</b> <b>tr</b>
<b>Thermal Expansion (max.)</b>	EN 821-1 : 1995	%	<b>0.4</b>
<b>Refractoriness</b>	ISO 528 : 1983	°C	<b>1200</b>
<b>Refractoriness Under Load, T<sub>05</sub></b> Load: 0.05 MPa	ISO 1893 : 2008	°C	<b>890</b>
<b>Total Porosity</b>	ISO 5017 : 2013	%	<b>82</b>
<b>Dimensional Tolerances</b> <b>Machined standard squares</b> <b>Trimmed standard squares</b> Length Width Thickness		mm	<b>± 1.0</b> <b>± 2.0</b> <b>± 2.0</b> <b>± 1.5</b>

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The above physical and chemical properties of Insulating Brick represent values obtained on standard squares in accordance with accepted test methods and are subject to normal manufacturing variations. This information is supplied as a technical service and may change without notice. Results should not be used for specification purposes, unless agreed with seller.

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