

# Material Data Sheet

## SLIW (M 85)

Description: **Magnesia brick made of sintered magnesia.**

<b>Properties</b>	<b>Parameters</b>	
	Typical	Guaranteed
<b>Chemical composition</b> (%) (STN ISO 10 058, STN 72 6026)		
MgO	87,0	min. 86,0
Fe <sub>2</sub> O <sub>3</sub>	8,0	-
CaO	2,5	max. 3,0
SiO <sub>2</sub>	1,0	max. 2,0
Al <sub>2</sub> O <sub>3</sub>	0,3	-
<b>Physical properties</b>		
<b>Bulk density</b> (g.cm <sup>-3</sup> ) (STN EN 993-1)	2,90	-
<b>Apparent porosity</b> (%) (STN EN 993-1)	19	max. 22
<b>Cold crushing strength</b> (MPa) (STN EN 993-5)	40	min. 35
<b>Specific heat</b> (kJ.kg <sup>-1</sup> K <sup>-1</sup> )		
at 500 °C		
at 700 °C	1,178	-
	1,210	-
<b>Thermal conductivity</b> (Wm <sup>-1</sup> K <sup>-1</sup> )		
at 800 °C	4,0 – 5,8	-
at 1 000 °C	2,3 – 4,0	-

**Application:** heat storage heaters.

**Note:**

The data shown represent typical values, obtained by a long-term properties testing in terms of valid testing standards (STN ISO). These values are not obligatory. We reserve the right for other technical development and relevant changes of product parameters.

The samples taking and the guaranteed values acceptances trials are guided in accordance with STN ISO 5022 a ČSN ISO 2859-1.