

## TECHNICAL DATA SHEET

## HIGH ALUMINA CHAMOTTE BRICKS

High alumina bricks are an indispensable lining element for all equipment operating at high temperatures. Variable working conditions, the impact of many factors destroying materials and their great resistance to high temperatures make it necessary for the materials used to meet many parameters and the highest quality requirements. High alumina chamotte bricks are used as working or protective layers in:

- o blast furnaces and their heaters,
- o flooding and transport of crude iron
- o crude iron mixers,
- o hoppers and intermediate ladles
- o electric furnaces,

Chemical analysis		
Al <sub>2</sub> O <sub>3</sub>	%	62
Fe <sub>2</sub> O <sub>3</sub>	%	1,2
Apparent density	g/cm <sup>3</sup>	2,55
Open porosity	%	18
Compressive strength	N/mm <sup>2</sup>	60
Resistance to rapid temperature changes at 950 °C amount of water changes	n	30
Fire resistance under stress t <sub>0,6</sub>	°C	1650
Thermal conductivity at temperature		
800 °C	W/mK	1,89
1100 °C	W/mK	2,12
1400 °C	W/mK	2,32
Linear thermal expansion		
800 °C	%	0,37
1100 °C	%	0,57
1400 °C	%	0,78
Permanent linear dimensional change due to heating		
1500 °C / 2h	%	0,2

The data listed above are typical values and do not constitute acceptance conditions.

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