



MAGNESITE BRICKS

DATA SHEET	April-19
-------------------	-----------------

SR NO	CLASSIFICATION	IK MGD MAGNESITE BRICKS	IKMGS MAGNESITE SUPER	IK MGN
1	Apparent Porosity (%)	17	17	18
2	Cold Crushing Strength(MN/m ²)	45	55	
3	Permanent Linear Change (%) 2h @ 1600 °C 2h @ 1700 °C	0.8	Nil Nil	
4	Modules of Rupture (MN/m ²) 25 °C 1200 °C 1300 °C 1400 °C 1500 °C	9.5 14.3 7.5 2	12	0.8 9.0 - 4.0
5	Thermal Expansion (%) 20 – 1200 °C	1.6	1.55	-
6	Thermal Conductivity (w/mK) Mean Temperature 500 °C Mean Temperature 900 °C Mean Temperature 1300 °C	5.8 3.8 3.5	8 5 4	- 4.1 -
7	Chemical Analysis (%) SiO ₂ Fe ₂ O ₃ Al ₂ O ₃ CaO MgO B ₂ O ₃	1.8 0.3 2.5 1.8 93.5 0.02	1 0.4 0.1 2.1 96 0.01	6.5 2.5 1.0 1.5 88.5 0