

Magnesia brick



- MgO 87-97.5%
- Bulk Density:2.85-3.20g/cm³
- Cold crushing strength ≥50MPa
- Initial load - softening temperature at 0.2MPa ≥1540°C

Application:

High compressive strength at room and high temperatures, resistant to alkali slag erosion, high thermal conductivity. Used in key parts of glass melting furnaces, linings of steel making converters, and refractory linings of non ferrous metal smelting furnaces.

Technical Data:

Project	M - 98	M - 97A	M - 97B	M - 95A	M - 95B	M - 93	M - 91	M - 89	M - 87
$\omega(\text{MgO})/\% \geq$	97.5	97	96.5	95	94.5	93	91	89	87
$\omega(\text{SiO}_2)/\% \leq$	1	1.2	1.5	2	2.5	3.5	—	—	—
$\omega(\text{CaO})/\% \leq$	—	—	—	2	2	2	3	3	3
Apparent Porosity /%	16	16	18	16	18	18	18	20	20
Bulk Density /(g/cm ³)	3.00 - 3.20			2.95 - 3.15		2.90 - 3.10		2.85 - 3.02	
Compressive Strength at Normal Temperature /MPa $\geq$	60	60	60	60	60	60	60	50	50
Initial Softening Temperature under 0.2MPa Load / °C $\geq$	1700	1700		1650		1620	1560	1550	1540
Permanent Linear Change after Heating (1650 °C × 2h) /%	-0.2 - 0	-0.2 - 0		-0.3 - 0		-0.4 - 0	-0.5 - 0	-0.6 - 0	—