

Fused silica brick



- $\text{SiO}_2 \geq 97\%$
- Bulk density $\geq 1.86 \text{ g/cm}^3$
- Cold crushing strength $\geq 40 \text{ MPa}$
- Load - softening temperature at 0.2 MPa , $T_{0.6} \geq 1600^\circ\text{C}$

Application:

Extremely low thermal expansion rate, erosion resistant, high temperature resistant. Used in glass melting furnaces, coke oven carbonization chambers, continuous casting submerged nozzles, ceramic kiln vaults, high temperature parts of hot blast stoves.

Technical Data:

Index Items	Machine-pressed	Cast
SiO_2 /%	≥ 98	≥ 97
Al_2O_3 /%	≤ 0.3	≤ 0.4
Bulk Density / g/cm^3	≥ 1.90	≥ 1.86
Apparent Porosity /%	≤ 18	≤ 19
Compressive Strength at Normal Temperature /MPa	≥ 45	≥ 40
Softening Temperature under Load 0.2 MPa , $T_{0.6}$ / $^\circ\text{C}$	≥ 1650	≥ 1600
Thermal Shock Stability (1100°C , water-cooled) / times	≥ 30	≥ 30