

Silicon carbide castable



- SIC $\geq 76\%$
- Bulk density $\geq 2.24\text{g/cm}^3$
- Compressive strength at $110^\circ\text{C}\times 24\text{h}$ $\geq 6\text{MPa}$
- Flexural strength at $1400^\circ\text{C}\times 3\text{h}$ $\geq 3.5\text{MPa}$

Application:

Silicon carbide castable is for on site casting, preventing slag penetration. It's heat resistant, wear resistant and thermal shock resistant. Used in high temperature equipment of steel, cement, power and non ferrous metal industries.

Technical Data:

Project		TGJ - 85	TGJ - 80	TGJ - 78	TGJ - 76
SiC, %		≥ 85	80	78	76
Bulk Density, g/cm ³		≥ 2.5	2.36	2.34	2.24
Compressive Strength, MPa	110 °C × 24h	≥ 45	22	36	6
	1400 °C × 3h	≥ 70	52	68	22
Flexural Strength, MPa	110 °C × 24h	≥ 5.5	3.5	6.8	2.5
	1400 °C × 3h	≥ 11	6	28	3.5
Linear Change after Firing, %	1400 °C	0.12	0.3	0.13	0.2
Thermal Conductivity, W/(m · K)	850 °C	≥ 8.6	3.8	3.4	3.14