

Silicon Carbide Castable

P-CAST-50SiC

Castables & Ramming Mixes

Material type: Dense refractory concrete

Raw material basis: High grade SiC and high alumina raw materials



SiC

Approx. 50 %

Bulk density

Approx. 2.4 g/cm³

Grain size

0 – 5 mm

Cold crushing strength (...)

400 – 600 kg/cm²

Applications

- Areas exposed to abrasion and thermal shock
- Zones where melt or slag build-up is a problem

Chemical analysis

Component	Value	Unit
Al ₂ O ₃	35 – 40	%
MgO	Max. 0.3	%
CaO	3 – 4.5	%
Fe ₂ O ₃	Max. 1	%
TiO ₂	Max. 0.06	%
SiO ₂	3 – 6	%
SiC	Approx. 50	%

Physical properties

Property	Value	Unit
Bonding system	Hydraulic	
Grain size	0 – 5	mm
Maximum service temperature	1800	°C
Bulk density	Approx. 2.4	g/cm ³
Cold crushing strength (110 °C)	400 – 600	kg/cm ²

Packaging & storage

Packaging: 40 kg bags (dry mix, water is added on site)

Shelf life: 6 months (dry, cool, frost-free place)

Notes

Installation: casting with vibration; water addition and drying according to the manufacturer's instructions.

The values in this datasheet are typical results of laboratory tests on production samples and do not constitute a guaranteed specification. Consult the Pas Espadana technical team for your specific application.