

Datasheet – Vulcasil S Silicon Carbide Refractories

VULCASIL S

Vulcasil S is a range of oxide, mullite and glass bonded silicon carbide materials designed to meet the most exacting conditions.

Over many years Vulcan Refractories full range of silicon carbide refractories have gained an international reputation for their quality and reliability. Applications from copper refining, metal melting, kiln furniture and skid rails. Vulcan Refractories can supply a full range of materials for a wide range of applications.

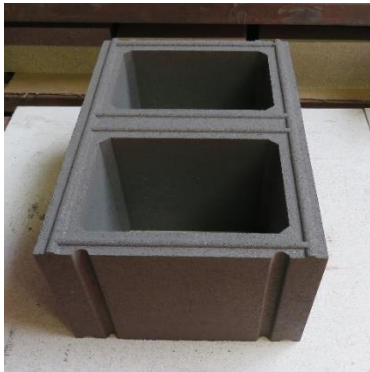


Property	Typical				Units	Method
	Vulcasil S93M	Vulcasil S91G	Vulcasil S90O	Vulcasil S70M		
Bond Type	Mullite	Glass	Oxide	Mullite		
Bulk density	2.6	2.6	2.6	2.55	g/cm ³	ASTM C20
Apparent porosity	18	15	16	16	%	ASTM C20
Cold crushing strength	90	120	90	55	MPa	ASTM C133
Thermal conductivity at 1200°C	15	15	11	6	W/m/°C	ASTM E1461
Maximum Service Temperature	1450	1400	1450	1450	°C	ASTM E1461
Composition						
Silicon carbide	93	91	90	74	Wt.%	XRF
Silica	4	5	9	12		
Alumina	2	1	1	13		
Other	1	3		1		

Disclaimer: Any advice, opinion, recommendation or information is given to assist the use of the company's products. **The end user must ensure the suitability of the product for their specific application.** In particular the company cannot accept liability for loss or damage which may arise from the incorrect use of its products or from poor workmanship on the part of the user. Please refer to Vulcan terms and conditions for full terms.



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Vulcasil S93M

An excellent mullite bonded silicon carbide with good hot strength and abrasion resistance. Ideal for skid rails, hearth tiles, pulverized fuel burner quarls and kiln furniture.

Vulcasil S900

This a high purity oxide bonded 90% silicon carbide refractory has good strength at high temperatures and good abrasion resistance. For use in high temperature kiln furniture, tiles and linings for copper shaft furnaces.



Vulcasil S91G

A special glass bonded silicon carbide refractory offering excellent oxidation resistance in the 850-1250°C temperature range. Ideal for boiler wall protection tiles and muffle bricks for ceramics and enamelling kilns.

Vulcasil S70M

For applications where the thermal conductivity of silicon carbide is too high, the addition of high alumina maintains the excellent refractory properties whilst reducing heat flow.



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