

Datasheet – Vulcasil SN Silicon Carbide Refractories

VULCASIL SN

Vulcasil S is a range of silicon nitride 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 range from waste to energy, metal melting, kiln furniture, heat treatment and many other arduous applications.



Property	Units			Method
	Vulcasil S75N	Vulcasil S75NT		
Bond Type	Silicon Nitride	Silicon Nitride Twice Fired		
Bulk density	2.6	2.6	g/cm ³	ASTM C20
Apparent porosity	16	10	%	ASTM C20
Cold crushing strength	150	150	MPa	ASTM C133
Thermal conductivity at 1200°C	16	16	W/m/°C	ASTM E1461
Maximum Service Temperature	1450 (can be used up to 1600°C depending on conditions. Consult VRL for advice)	1450 (can be used up to 1600°C depending on conditions. Consult VRL for advice)	°C	ASTM E1461
Composition				
Silicon carbide	75	74	Wt.%	XRD, XRF and LECO
Silicon Nitride	24	23	Wt.%	
Other	1	3	Wt.%	

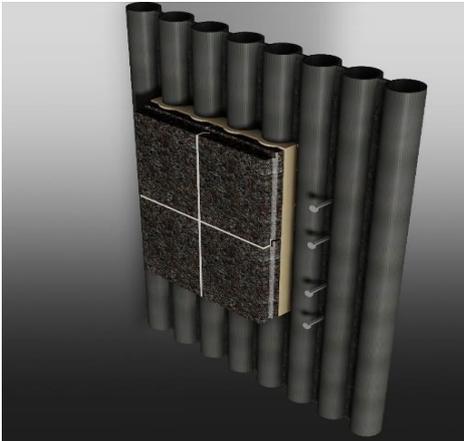
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Vulcasil S75N

Premium grade silicon nitride bonded silicon carbide offering high thermal conductivity, excellent abrasion resistance and resistance to slag attack. Applications for waste to energy mixed fuel burners, kiln furniture, copper smelting, aluminum reduction cells and many more arduous applications. Vulcasil SN is recognized as an industry standard throughout the world.



Vulcasil S75NT

Following the nitride firing the material is re-fired in an open kiln atmosphere. This concludes the initial oxidising process in controlled conditions to stabilise growth before installation in waste to energy applications.



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