

PHYSICAL DATESHEET CARBON BONDED SiC

Material: Carbon bonded SiC without steel inner tube
With either 1/2" or 3/4" outer thread

Applications: Non-ferrous metals such as aluminium

Max. Temperature: up to 1000°C

Applications: thermocouple protection tubes

THERMAL, MECHANICAL AND PHYSICAL PROPERTIES:

Properties	Unit	Value
Silicon carbide content	60 – 70	%
Graphite + Carbon	30 – 40	%
Maximum temperature	1000	° C
Open porosity	18 – 22	Vol.-%
Raw density	2,58	kg/dm ³
Compressive strength (at 20° C)	85 – 100	N/mm ²
Fire resistance	>38	SK
Thermal extension coefficient (20 - 1000° C)	4,5	K ⁻¹ x 10 ⁻⁶
Average specific heat (20 – 1000° C)	1050	J/kgK
Temperature exchange resistance		excellent

The given values are only valid for the tested samples and therefore only to be used as indication values.

