Technical Data Sheet

SRS AMSTERDAM

SiC Thermocouple protection tubes

Advantages

- High tempature shock resistance
- heat resistant up to 1000° C
- high chemical resistance

Description

Our nitride bonded silicon carbide or carbon bonded silicon carbide thermocouple protection tubes offer several service advantages. They require no preheat if dry, have industry-leading thermal conductivity and response time, high corrosion resistance to surface fluxes, and feature a simple hanging system with ½" or ¾" BSP threads on integral steel pipes. Additionally, their sealed pipework allows for use in pressurized and dosing systems, and their good electrical conductivity enables the use of metal level detection systems. They are available in a wide size range from 6" – 69", 150mm to 1750mm, and come in standard sizes with short delivery times.

Chemical components

Silicon carbide 60 %

Carbon 30 %

Borosilicate glass 10 %

Standard diameters

- standard ½" / 16 mm BSP outside thread
- (2..-series, e.g. CERT-248)
- also available with ¾" / 21 mm BSP outside thread
- (3..-series, e.g. CERT-348)

Standard lengths

Various dimensions, for further info please see list with sizes.

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Physical Properties:	Mean	Tolerance
Open porosity	16%	±3
Bulk density	2.30 g/ml	±0.15
MoR@ 20˚C	8 Mpa	±2.5
ThermalExpn	4.6 MK-1	
ThermalConductivity	36 Kcal/m.hr.˚C	
CorosionResistance	Exceptionally resistant to most metals and slags	
Maximum operating temp	1250˚C	

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

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