

⚡ SiC Thermocouple protection tubes

Advantages

- High temperature shock resistance
- Heat resistant up to 1000° C
- High chemical resistance
- No preheating required



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)

SiC Thermocouple Tubes

Chemical Properties:	Mean	Tolerance
Silicon Carbide	60%	±3
Carbon	30%	±2
Borosilicate glass	10%	±1

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

SRS Amsterdam B.V.

Kabelweg 34
1014 BB Amsterdam
The Netherlands

Tel: +31 (0)20-6935209

Mail: info@srsamsterdam.com

Web: www.srsamsterdam.com

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