Silit® SK Thermocouple Protection Tubes

PRODUCT INFORMATION

Silit® SK is Siliconized Silicon Carbide (SiSiC) ceramic. Thermocouple Protection Tubes made of Silit® SK can be used up to 1350 °C. Compared to Nitride bonded or Recrystallized SiC, Silit® SK is a denser product, with minimal gas permeability.

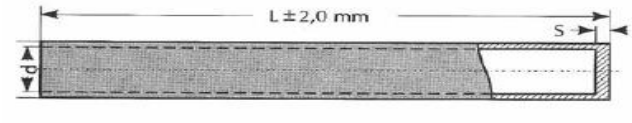
PROPERTIES

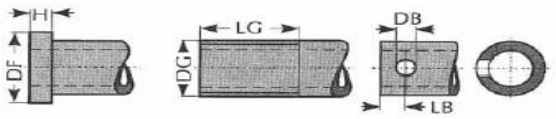
- High resistance to oxidation
- High thermal shock resistance
- High strength and stability of shape to maximum application temperature

Tube diameter		Flange diameter DF +/- 2,0 mm	Tolerance X mm	Standard length L ± 2 mm
OD ±Tolerance X mm	ID mm			
20	11	40	± 0.35	200 - 2000
25	15	45	± 0.40	250 - 1500
30	19	55	± 0.45	300 - 1750
34	22	55	± 0.50	400 - 1750
38	26	60	± 0.55	400 - 2000
40	28	60	± 0.55	500 -2000
51	36	80	± 0.70	500 - 2000
55	42	80	± 0.90	500 - 2000

* Technical data, right of modification reserved

Standard dimensions and tolerances of Silit® SK T-Tubes*





Standard connections at end of tube (flange, round thread, drill) of Silit® SK T-Tubes:

Flange thickness	10 mm
Bottom thickness	12 mm
Round thread	Outer diameter mm x 1/6 (inch)
Length of thread	30 mm
Drill	Ø 4-15+/- 0.5 mm, as required

Standard deviation MD of Silit® SK T-Tubes:

Length	MD
≤ 1200 mm	≤ 5 mm
> 1200mm	≤ 7 mm

Divergent diameters and lengths can be manufactured on request also. The design must be appropriated to the material and production process.

SAINT-GOBAIN

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MATERIAL PROPERTIES: Silit® SK

Properties			Unit	Value
Main components	SiC Si		% %	85 15
Maximum application temperature[1])			°C	1380
Bulk density	EN 993-1		kg/dm^3	3.0
Apparent porosity	EN 993-1		Vol. %	0
Young's modulus	EN 843-2	RT[2)]	GPa	340
Modulus of rupture	EN 993-6 EN 993-7	RT[2)] 1200°C	MPa MPa	260 260
Coefficient of thermal expansion	EN 993-10	$\alpha_{RT...1300\ °C}$	10^{-6}/K	4.5
Thermal conductivity	EN 993-15	1000 °C	W/(m*K)	35

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Signs and symbols:
[1)] Dependent on the corresponding operating conditions
[2)] Ambient temperature

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