

SIC Cooling Chills

Chills for solidification control on the basis of mullite bonded silicon carbide

Application:

Solidification control by creating artificial chilling zones (areas), modulus reduction of junction points, thickenings or material accumulations, suppression or displacement of segregation zones, avoiding of cracks.

Technical Specification:

Density, DIN EN 993-1	2,35 g/cm ³
Open porosity, DIN EN 993-1	20 %
Cold crushing strength, DIN EN 993-5	50 N/mm ²
Thermal expansion (at 1.000 °C) DIN 51045-1	0,50 %
Thermal conductivity, DIN EN 993-14 at 200 °C at 600 °C at 1.000 °C	6,6 W/mK 6,0 W/mK 5,7 W/mK
Thermal shock resistance DIN 51068-1	> 30
Refractoriness under load t _a , DIN 51064	1.500 °C
Fire resistance (SK), DIN 51063	37
Average specific heat bei 600 °C bei 1.000 °C	0,88 kJ/kgK 0,96 kJ/kgK
SiC- content (according to offset)	65 %
Permissible dimensional deviation:	+/- 2 %

Dimensions, length x width x height [mm]

Weight [kg] / piece / pal.:

50 x 50 x 50 0,29 / 3.000	100 x 70 x 50 0,81 / 1.000	100 x 50 x 40 0,47 / 2.000	200 x 50 x 30 0,70 / 900
100 x 50 x 50 0,58 / 1.400	100 x 100 x 50 1,16 / 900	140 x 70 x 40 0,91 / 1.000	200 x 100 x 30 1,40 / 500
		150 x 60 x 40 0,84 / 1000	200 x 100 x 50 2,33 / 470

Other dimensions on request.

The above information is correct to the best of our knowledge and careful consideration. We guarantee the faultless and consistent nature of our products, however, we are not liable for further processing results that usually arise beyond our control. Safety Data Sheets are available and can be requested from KBO.

SIC-Steine / EN 2304