

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	6,6 W/mK
at 600 °C	6,0 W/mK
at 1.000 °C	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	0,88 kJ/kgK
bei 1.000 °C	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 50 x 40 0,47 / 2.000	140 x 70 x 40 0,91 / 1.000	200 x 100 x 50 2,33 / 470
100 x 40 x 30 0,28 / 3.000	100 x 50 x 50 0,58 / 1.400	150 x 60 x 40 0,84 / 1000	200 x 100 x 80 3,7 / 250
100 x 40 x 40 0,37 / 2.000	100 x 70 x 50 0,81 / 1.000	200 x 50 x 30 0,70 / 900	200 x 100 x 100 4,65 / 240
100 x 50 x 30 0,35 / 2.400	100 x 100 x 50 1,16 / 900	200 x 100 x 30 1,40 / 500	250 x 125 x 64 4,65 / 250

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 1603