

Material data sheet

Silit[®] SKD H

Reaction bonded silicon infiltrated silicon carbide (SiSiC)

Technical data

| | | | | | |
|--|---------------------------------------|-----------------------------------|-------|-----------------------------------|--------|
| Silicon carbide content | % | 94 | % | 94 | |
| Maximum service temperature ¹ | °C | 1500 | °F | 2727 | |
| Bulk density | kg/dm ³ | 3,13 | g/cc | 3.13 | |
| Apparent porosity | Vol % | 0 | Vol % | 0 | |
| Modulus of rupture | 20°C | MPa | 320 | psi | 46,400 |
| | 1200°C | MPa | 320 | psi | 46,400 |
| Modulus of elasticity | 1000°C | GPa | 380 | GPa | 380 |
| Thermal conductivity | 1000°C | W/(m*K) | 35 | BTU-in. hr.ft. ² °F | 243 |
| Thermal expansion | α (RT ² ...1000°C) | K ⁻¹ *10 ⁻⁶ | 4,5 | K ⁻¹ *10 ⁻⁶ | 4.5 |

¹ depending on the corresponding operating conditions

² room temperature

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