

Technical Data Sheet

SCH TechCon®

Description of the material

SCH TechCon® is an ultra-high performance concrete with a high quartz content. Good processing properties in the cold casting process. Durable in use, corrosion-free, chemically inert, resists most chemicals and is landfillable.

Characteristics

- High rigidity
- Good damping characteristics
- Low thermal conductivity
- Lower component thicknesses

Material properties

- | | | |
|--------------------------------|------|---|
| • Density | typ. | 2,3 -2,4 kg/dm ³ |
| • Modulus of elasticity | typ. | 48 kN/mm ² |
| • Compressive strength | typ. | 130 - 140 N/mm ² |
| • Tensile strength | typ. | 4 - 6 N/mm ² |
| • Therm. expansion coefficient | typ. | 12*14 ⁻⁶ K ⁻¹ at 20°C |
| • Heat conductivity | typ. | 2 - 4 W/m K at 20°C |
| • Linear shrinkage | typ. | 0,7 mm/Meter |
| • Component thickness | typ. | 40 mm |
| • Maximum grain size | typ. | 4 mm |

Area of application

Suitable for thin-walled machine parts, such as stands and machine frames. Filling of thin-walled welded constructions to increase stiffness. For machine parts that must exhibit a high damping effect.

Comment

The material recommendations are based on many years of experience and correspond to the current state of knowledge. Suitability tests are subject to the customer's area and cannot be assumed by the seller.

Material qualification

The material properties were developed in cooperation with Inspire AG and institutes of ETH Zurich and the tests were carried out by qualified laboratories.

Tests – update Inspire/2021-11-18

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Revision notice

Issue	Name	Author date/initials	Checked date/initials	Approval date/initials
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