

Technical Data Sheet

SCHQ10

Description of the material

SCHQ10 is a mineral casting mixture consisting of a basis of epoxy resin and a high amount of quartzite-based stone. It has good processing properties when utilised in conjunction with cold casting methods. When used, it is durable, non-corrosive, chemically inert, resists most chemicals, and can be disposed of at a conventional waste facility.

Characteristics

- Extremely high rigidity
- Good damping characteristics
- Low thermal conductivity
- Low epoxy resin content

Material properties

- Density typ. 2.3 kg/dm³
- Modulus of elasticity typ. 42 kN/mm² (38-45 kN/mm²)
- Compressive strength typ. 110 N/mm² (>80 N/mm²)
- Tensile strength 13 N/mm² (>10 N/mm²)
- Poisson's ratio 0.2
- Damping ratio 0.3%
- Therm. expansion coefficient $16 \cdot 10^{-6} \text{ K}^{-1}$ at 20°C
- Heat conductivity 3 W/m K at 20°C
- Spec. thermal capacity 0.9 kJ/kg K at 20°C
- Linear shrinkage typ. 0.3 mm/meter
- Component thickness typ. 80 mm
- Maximum grain size typ. 16 mm

Area of application

Universal casting mixture with good damping characteristics suitable for easily refillable machine components with high requirements regarding rigidity. It is also suitable to be used for filling welded steel constructions, grey cast iron and other components.

Comment

The material recommendations are based on the experience of many years and correspond to the present state of knowledge. Suitability tests are the responsibility of the customer and cannot not be assumed by the vendor.

Material qualification

The material properties were compiled in co-operation with inspire AG and institutes of the ETH Zurich and the examinations were carried out by authorized laboratories.

Tests – inspire/2010-01-13

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Revision notice

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