

TECHNICAL DATA

SCHNEEBERGER Mineral Casting techcon®

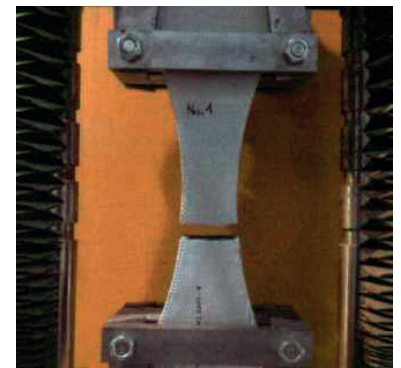
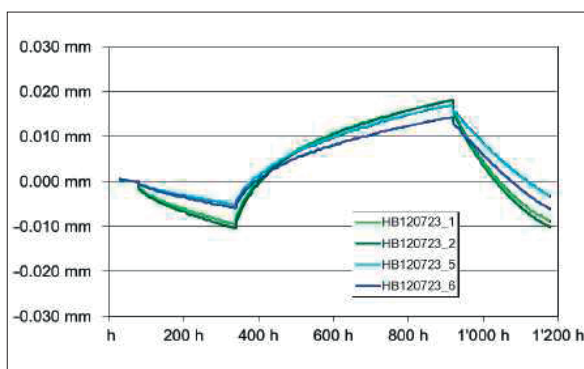
Material properties:

E- modulus	40 – 45	kN/mm ²
Density	2.3 – 2.4	kg/dm ³
Tensile strength	4 – 7	N/mm ²
Bending tensile strength	12 – 15	N/mm ²
Compressive strength	130 – 140	N/mm ²
Linear coefficient of thermal expansion/steel 12/	12 – 14 x 10 ⁻⁶	K ⁻¹
Thermal conductivity	2 – 4	W/mK

E modulus/density/tensile strength/ compressive strength

In contrast to steel and grey cast iron

- ✓ The wall thickness is adapted for rigidity
- ✓ FEM analysis is used to optimize the static and dynamic properties
- ✓ Note the considerable differences in compressive and tensile strengths



Facts that speak for techcon®

- ✓ Small batches and prototypes can be made cost-effectively
- ✓ Low-cost wooden molds can easily be used
- ✓ Very good E modulus
- ✓ The casting of thin walls is unproblematic (40 mm)
- ✓ Very good surface, hardly any filling required
- ✓ The surface can be painted in any required color
- ✓ Precision surfaces can be ground
- ✓ Cast-in steel strips can be milled
- ✓ Very good CO₂ footprint
- ✓ Heat resistant up to 140°C
- ✓ Non-flammable
- ✓ Linear coefficient of thermal expansion as for steel
- ✓ Resistant to variety of media
- ✓ Accuracy can be achieved through precision molds
- ✓ Very high damping values

