

## TECHNICAL DATA

# SCHNEEBERGER Mineral Casting techcon®

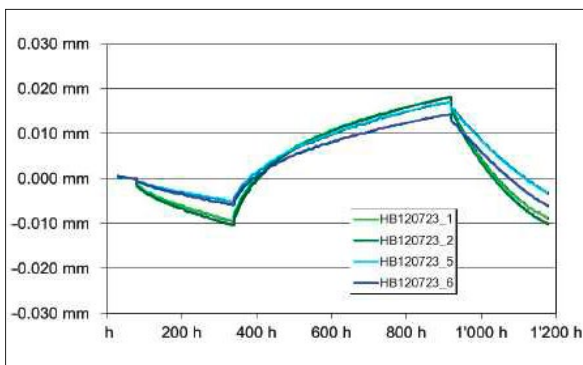
### Material properties:

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

### E modulus/density/tensile strength/ compressive strength

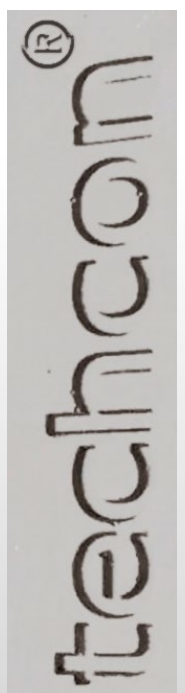
In contrast to steel and grey cast iron

- ✓ 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 CO<sub>2</sub> 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





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