

Technical Data Sheet

FS80

Description of the material

FS80 is a mineral casting mixture that can be milled based on epoxy resin and a percentage of glass. Homogeneous material processed in a cold casting procedure. In use it is durable, non-corrosive, chemically inert, resistant to most chemicals and may be disposed of as landfill waste.

Characteristics

- Very good machining properties
- Clean, non-porous surface
- Very high homogeneity

Material properties

- Density 1.7 kg/dm³
- Modulus of elasticity 11 kN/mm²
- Compressive strength 110 N/mm²
- Poisson's ratio 0.3
- Damping ratio 0.8%
- Therm. expansion coefficient $35 \cdot 10^{-6} \text{ K}^{-1}$ at 20°C
- Heat conductivity 1 W/m K at 20°C
- Spec. thermal capacity 1.0 kJ/kg K at 20°C
- Thickness of the coating 10 mm

Area of application

Serves as a rendered compound for subsequent milling or grinding for precision surfaces.

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

Issue	Name	Author – date/initials	Checked	Approval
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