

BASALDUR VC[®]

MATERIAL PROPERTIES

Mineral casting BASALDUR VC[®] is a material consisting of mineral fillers such as quartz gravel, quartz sand, basalt and a small amount of epoxy binder. This homogeneous mass is poured cold and thus has the advantage that the casting-moulds can be equipped in advance with a wide variety of inserts/ cast parts and pipe systems. During the casting process, the mould is vibrated for compacting and venting. After a few hours, the component can be demoulded and, if necessary, further processed.

Density	ca. 2,3 – 2,38 g/cm ³
Elastic Modul	30 – 40 KN / mm ²
Compressive strength	130 – 150 N / mm ²
Tensile strength	10 – 12 N / mm ²
Bending strength	33 – 39 N / mm ²
Number of cross-contraction μ	0,35
Thermal expansion coefficient	0,016 – 0,017 mm / m
Heat resistance	ca. 85 °C
Thermal conductivity λ_D	ca. 2,1 – 1,9 W / (m.K)
Resistance	PH 4 – PH 14
Damping rate	0,06
Colour	basalt gray