

SILICONES

and more

Characteristics

- Extend the processing time
- Exothermic molded products can be cast in thicker layers

Filler Fillite 355

These ceramic microspheres are used to reduce the density of resins and other casting materials. These micro granules can be used in polyurethane, silicone, epoxy, polyester, plaster, concrete, cement and similar products.

Technical data

- Melting point: 1200-1350°C
- Bulk density: 350-480 g/L
- Typical particle size: 5-355 µm
- Average particle size: 106-150 µm
- Colour: Grey
- Compressive strength: 1500-3000 psi

Chemical composition

SiO₂ 55 – 65%

Al₂O₃ 27 - 33 %

Fe₂O₃ ≤ 6%

CO₂ (content in the spheres) 70%

N₂ (content in the spheres) 30%

Loss on ignition (1000oC) ≤ 2%

Processing

The desired and possible amount of these micro granules that can be added differs per material and per desired purpose.

With polyurethane you can use the following mixing ratio Polyol : Iso : Fillite = 1 :1 :1 by weight. At this mixing ratio, the weight of the product becomes 75% of what a casting without filler would have weighed.

With higher filler percentages the product becomes more viscous and with an even higher filler percentage you even get a paste.

Please note: it is recommended to mix the balls well, but not for too long, because they will then continue to be broken and no longer effectively reduce the density of the mixture.

Special instructions

Do not mix for too long or too intensively, otherwise you will destroy the filler.

Shelf life

Unlimited shelf life if stored dry.