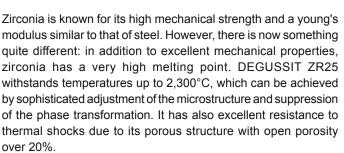
## FRIALIT®-DEGUSSIT® HIGH-PERFORMANCE CERAMICS

## **DEGUSSIT ZR25**

Application: Thermal shock and high temperatures, insulation

Material: Mg-PSZ (ZrO<sub>2</sub>) DEGUSSIT ZR25



It exhibits another positive property resulting from its porous structure: DEGUSSIT ZR25 has a particularly good thermal insulation. With a thermal conductivity of less than 2.5 W/m \* K, it is one of the very few materials that combines low thermal conductivity with best thermal shock resistance making it an ideal insulation material in high-temperature processes.

As DEGUSSIT ZR25 is very well suited to green machining and machining after sintering a variety of shapes and dimensions can be produced using isostatic or conventional presses. This allows not only plates and beams but also more complex components such as crucibles, tubes or slides to be machined from the green body. Surface qualities of Ra < 3.8  $\mu$ m can be achieved for specific applications.

Fields of Application:

- Crucibles used for (precious) metal melting (induction heating)
  - Kiln plates / slide plates / kiln furniture
  - Nozzles or slides/plates for steel melting

- Highly resistant to temperatures
- Excellent resistance to thermoshock
- Very low thermal conductivity

## **Competence in Advanced Ceramics** Engineering for customized solutions