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COATINGS

Ceramic Coatings for Friction Shims
Ceramic coatings can be produced economically using the aerosol deposition coating method. This enables nickel-phosphorus-free friction shims for application temperatures up to 700 ° C. Friction shims are needed in applications where high torques are transmitted without having to design the components more massively.

MATERIALS

Highest Resolution from the 3D Printer
An alumina-based ceramic material for ceramic 3D printing enables the production of parts with very high resolution. The development of this new material began with the international research project NESSIE, which started in 2017. The goal of this project was to produce high-resolution ceramic structures that can be used for the purification of medical products such as vaccines.

POWDER SYNTHESIS

Ceramic Raw Materials from the Pulsating Hot Gas Stream
By using Glatt's innovative powder synthesis technology and the associated spray drying and calcination processes, new opportunities in raw material production have been explored. In this article, the inherent potential of barium strontium cobalt iron oxide (BSCF), doped and coated zirconium dioxide is described.

ADDITIVE MANUFACTURING

Near-Net-Shape Production of Ceramic Investment Casting Molds Using Stereolithography
In the field of additive manufacturing, ceramic materials have become increasingly popular in recent years. One of the most important applications is the individualized production of molds for investment casting, which enables the economic production of geometrically complex cast components even for low quantities. A ceramic-filled resin for the stereolithographic production of investment casting molds is being developed from commercially available materials and established for the extended process chain of investment casting.

Termine

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Ihr Ansprechpartner



Lucie Grimm
Mediaberatung
+49 (0) 611.7878 165
lucie.grimm(at)springernature.com