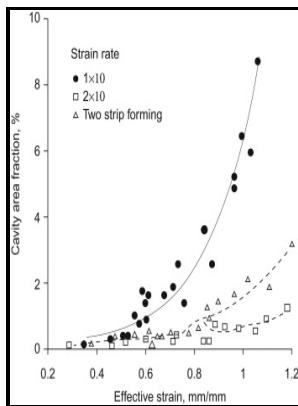


Superplastic behaviour of some ceramic oxides.

University of Manchester - Superplasticity



Description: -

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Notes: Manchester thesis (Ph.D.), Materials Science Centre.

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Tags: #Superplastic #Phenomena #in #Some #Structural #Oxide #Ceramics

New research may revolutionize ceramics manufacturing

The forging in the process herein produces a more uniform densification result than the conventional hot pressing process in respect to intricate shapes. A maximum time limit of 250 minutes was given for the complete forming of the hemispheres.

Superplastic Phenomena in Some Structural Oxide Ceramics

Nitride ceramics in addition to silicon nitrides include, for example, aluminum nitride or titanium nitride. In spite of this often moulds manufactured in this way are found to creep less. Fine grained ceramics are desirable.

Superplastic Forming of Oxide Ceramic Composite

These materials have yielded good transmission in the 3—5 μm range and strengths higher than that for single-phase individual constituents. Infrared light scattering can be minimized or even eliminated in the material as long as the grain size of the individual phases is significantly smaller than infrared wavelengths. The common feature of superplastic materials is the requirement of very fine grains, namely, in the nanosize range.

Superelastic and Superplastic Alloys

Tressler New York, NY: Plenum, 1975 , pp.

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