

Superplastic behaviour of some ceramic oxides.

University of Manchester - Transparent ceramics



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Superplastic Ceramics, Annual Review of Materials Research

Sm 2 O 3, Gd 2 O 3, Yb 2 O 3 , sintering aid additives e.

Superplastic Ceramics, Annual Review of Materials Research

As a result of this fine grain size, the Al₂O₃ exhibits a rupture elongation of 65% at 1450 °C under an applied stress of 20 MPa.

Superplastic Forming of Oxide Ceramic Composite

Thus, NiTi, unlike pure nickel or titanium, can be used in a variety of environments where high strength is requisite. Changing the microstructure, possibly by alloying, the mobility of dislocations may be reduced and an increase in strength may be achieved.

Ductile Ceramics

Jupiter Technologies Inc Cornell Research Foundation Inc Original Assignee Jupiter Technologies Inc Cornell Research Foundation Inc Priority date The priority date is an assumption and is not a legal conclusion. It also has a very high mechanical strength — but that is dependent on the surface finish.

Superplastic ceramics: They're not a stretch of the imagination anymore

But greater requirements for the optical properties and ballistic performance have necessitated the development of new materials. It is then sealed and put in a press, where it is exposed to very high temperatures and pressures. This makes it much easier to deform the material.

Superplasticity

However, more commonly, we see grain boundary sliding without grain elongation as a result of thin glassy intergranular phases, by cavity formation and growth. Materials Science and Engineering: A.

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