Microstructural Design Of Toughened Ceramics

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Lecture - Fracture ToughnessA ceramic bowl - layering

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The fracture toughness of ceramics can be improved by the incorporation of a variety of discontinuous, elastic reinforcing phases that generate a crack‐bridging zone. Recent models of toughening by crack‐bridging processes are discussed and used to describe the behavior observed in whisker‐reinforced ceramics.

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The ceramic composite microstructure (Figs. 7c and 8) was constituted by a substructure made of small particles (< 10 μm) and dense zones of larger dimensions (largest dimension up to 40 μm). This microstructure was more open in zones close to the laser channels, which had very irregular boundaries (Figs. 7b and 8 b).

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For MgO-PSZ ceramics, the general approach to maximising the transformation toughening incre- ment has been to set Vf at about 40% and the pre- cipitate size at ~0-2/zm, so that transformation can be stress-induced at room temperature

and the dimensions of the process zone are thus maximised.4 The micro-crack toughening increment may be viewed as arising from an increase in the fracture surface in the material adjacent to, but not in front of, the crack tip.

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