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The ceramic composite microstructure (Figs. 7c and 8) was constituted by a substructure made of small particles ($< 10 \mu\text{m}$) and dense zones of larger

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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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toughened material relies
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For MgO-PSZ ceramics, the
general approach to
maximising the
transformation toughening
incre- ment has been to set
 V_f at about 40% and the pre-
cipitate size at $\sim 0.2/\lambda_m$, so
that transformation can be
stress-induced at room
temperature and the
dimensions of the process

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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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