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# Fracture behavior of brittle particulate composites consisting of a glass matrix and glass or ceramic particles

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## Abstract

In this presentation, we will illustrate the peculiarities of the fracture behavior of brittle particulate composites consisting of a glass matrix and glass or ceramic particles based on numerous examples of composites exhibiting innovative functional properties. We will focus in particular on the reinforcement mechanisms at the nano- and micro-scopic scales as well as on original functions obtained with particles presenting remarkable properties, such as mechanoluminescence, superabrasion, or crack-healing.

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