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Cracks in rock are a mechanism of brittle deformation in response to stress. A fracture is any separation in a geologic formation, such as a joint or a fault that divides the rock into two or more pieces. A fracture will sometimes form a deep fissure or crevice in the rock.

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Brittle fractures occur  
with no apparent  
deformation before  
fracture; ductile  
fractures occur when  
visible deformation



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does occur before separation. Fracture strength or breaking strength is the stress when a specimen fails or fractures. A detailed understanding of how fracture occurs in materials may be assisted by the study of fracture mechanics.

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On one hand, during manufacturing, food products are subjected

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to large strains that may cause severe deformation or even final fracture, affecting their structural integrity. On the other hand, large deformations and fracture processes are involved in biting and mastication and therefore, they are linked to consumer's acceptance and preference.

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debonding, fibre fracture, subsurface damage and cutting forces in both traditional and vibration-assisted cutting.

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