

# Questions and Answers 1

## DUCTILITY ANDS BRITTLENESS

Qa-1 With the aid of a sketch, explain the term ductility

Aa-1 Ductility is a measure of how much strain or deformation a material can take before rupturing.

Qa-2 Provide an example of a ductile material

Aa-2 Bitumen at a specific range of temperatures is a good example of a ductile material, it can stretch without breaking

Qa-3 What is the term used for a non-ductile; also provide an example for such material

Aa-3 “Brittle” is the term used for non ductile material. Portland cement concrete is a good example of a brittle material

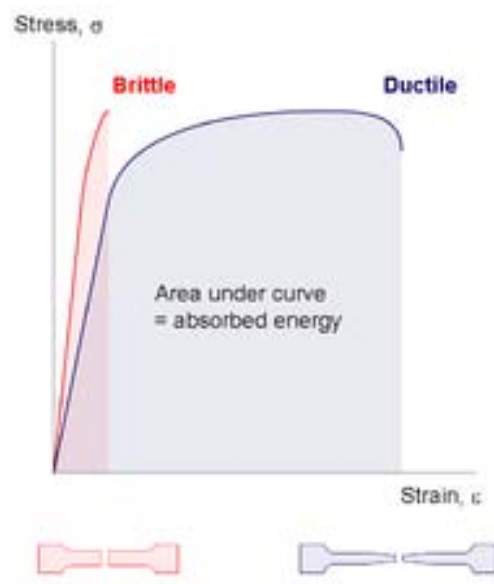


Figure 1: Stress-strain relationship for brittle and ductile materials