MORE QUESTIONS AND ANSWERS

What is the difference between strength and toughness?

Tensile strength is a measure of the maximum stress that a metal can support before starting to fracture. ... Fracture toughness is a measure of the energy required to fracture a material that contains a crack.

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What is toughness and hardness?

Hardness: A material's ability to withstand friction, essentially abrasion resistance, is known as hardness. ... Toughness: How well the material can resist fracturing when force is applied. Toughness requires strength as well as ductility, which allows a material to deform before fracturing.

What is toughness of a material?

Toughness is a fundamental material property measuring the ability of a material to absorb energy and withstand shock up to fracture; that is, the ability to absorb energy in the plastic range.

How is toughness defined?

: the quality or state of being tough: such as. a : the quality of being strong and not easily broken, torn, etc. This combination of strength and ductility makes spider silk extremely tough, matching the toughness of state-of-the-art carbon fibers such as Kevlar. —



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