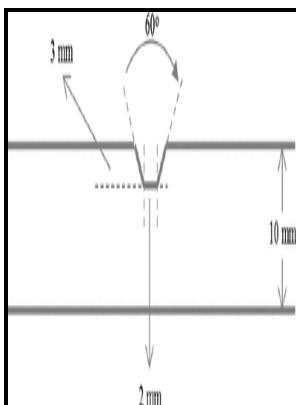


Effect of ultrasonic treatment on mechanical properties of low carbon plain steel

Brutcher - Ultrasonic impact treatment



Description: -

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The use of the ultrasound measurement technique for the evaluation of mechanical properties of the ASTM A36 steels

This was due to wave energy loses during the travel, as greater frequencies have greater energy loses during the wave travel Bouda, 2003 , resulting in better applications in minor thicknesses.

Effect of Heat Treatment on Low Carbon Steel: An Experimental Investigation

It is added to stainless steels to increase their resistance to corrosion and is also used in high speed tool steels. When the tool, made up of the ultrasonic transducer, pins and other components, comes into contact with the work piece it acoustically couples with the work piece, creating harmonic. Providing the distribution is homogenous it has little effect on the physical properties of the steel, and contrary to popular belief, it does not affect weld ability.

Mechanical and corrosion resistant properties of nitrided low carbon steel

The prime object of this investigation is to illustrate the effect of heat treatment on low carbon steel AISI 1020 to expose its mechanical hardness and microstructural microstructures properties.

Effect of ultrasonic impact treatment on the microstructure and mechanical properties of diffusion

The increased hardenability is due to the cooling rate which is decreased by manganese during the hardening process.

Effect of chemical elements on steel

Carbon C : The effect of carbon on steel is described below.

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