

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

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



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## Effect of Ultrasonic Treatment on the Solidification Microstructure of Die

However, this transducer has shown the best correlation results between material and wave properties, as can be seen in and. 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. The author describes different methods on the attempt of determining the grain size, by the analysis of the ultrasonic backscattered signals, by the analysis of the attenuation of consecutive back wall echoes and by measuring only the first back wall echo for highly attenuating materials, obtaining an inaccuracy of less than 20% for the last method.

## Ultrasonic Investigation of the Effect of Carbon Content in Carbon Steels on Bulk Residual Stress

However, it is not a strong correlation. Microstructure and mechanical properties of carbon steel weld metal ER70S-G filler metal were studied.

## Ultrasonic Investigation of the Effect of Carbon Content in Carbon Steels on Bulk Residual Stress

Ultrasonic impact treatment can result in controlled , and size reduction. Manganese is a necessity for the process of hot rolling of steel by its combination with oxygen and sulfur.

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This allows to link your profile to this item. Molybdenum Mo : The effect of molybdenum on steel includes the following: Tensile strength, heat resistance and weldability of steel is increased by the molybdenum, but as soon as the content is too high the forgeability is negatively influenced.

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