

The Effect of Boronizing on the Radiation Shielding Properties of Steel

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The radiation shielding properties of steel and its variation with the boronizing process have been investigated. For this purposes the linear attenuation coefficients of steel have been measured before and after boronizing the steel at the photon energy of 662 and 1250 keV. The measured results before boronizing were compared with the theoretical calculation. It was clearly seen that boronizing improved the radiation shielding properties of steel.

Key words: Steel; Boron; Radiation; Shielding.