

tional work-hardening, i.e. lower ductility, greater notch-sensitivity, and poorer corrosion-resistance, appear to result from explosive-hardening. However, there is some evidence that the effects of shock waves in metals can be annealed out more readily than is normally the case.^{37,70,88} It is useful to note that, provided that excessive melting and thus heating are avoided at the interface, explosive welding is able to weld metals in the heat-treated or work-hardened conditions without loss of mechanical strength.^{23,57}

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