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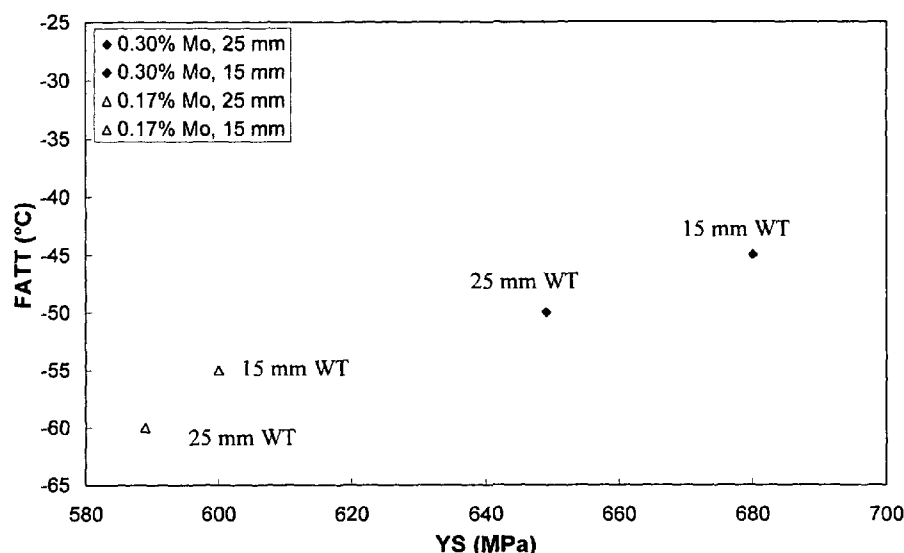
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(54) Title: HIGH-STRENGTH STEEL FOR SEAMLESS, WELDABLE STEEL PIPES



(57) Abstract: A low-alloy steel containing, by weight percent, C 0.03-0.13%, Mn 0.90-1.80%, Si $\leq$ 0.40%, P $\leq$ 0.020%, S $\leq$ 0.005%, Ni 0.10-1.00%, Cr 0.20-1.20%, Mo 0.15-0.80%, Ca $\leq$ 0.040%, V $\leq$ 0.10%, Nb $\leq$ 0.040%, Ti $<$ 0.020% and N $\leq$ 0.011% for making high-strength, weldable steel seamless pipe, characterized in that the microstructure of the alloy steel is a mixture of bainite and martensite and the yield stress is at least 621 MPa (90 Ksi). It is a second object of the present invention to provide a high-strength, weldable steel seamless pipe, comprising an alloy steel containing, by weight percent, C 0.03-0.13%, Mn 0.90-1.80%, Si $<$ 0.40%, P $\leq$ 0.020%, S $<$ 0.005%, Ni 0.10-1.00%, Cr 0.20-1.20%, Mo 0.15-0.80%, Ca $\leq$ 0.040%, V $<$ 0.10%, Nb $<$ 0.040%, Ti $<$ 0.020% and N $<$ 0.011% also characterized in that the microstructure of the alloy steel is predominantly martensite and the yield stress is at least 690 MPa (100 ksi).

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