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Abstract

An improved hydraulic expansion device for manufacturing CRA-lined pipe has been proposed and developed to overcome the disadvantages in existing fabricating technologies. The mechanism of hydraulic expansion method is diagrammatized, as well as the stress and strain in the liner and the outer pipe have been analyzed theoretically during the hydro-forming process. According to the true stressâ€“strain curve of pipe materials, the more accurate calculating formula relating hydro-forming pressure and residual contact pressure between the liner and the outer pipe is obtained. The theoretical analysis is verified by experimental investigation, the test results demonstrate that the new technology is feasible and can be applied in industrial production.

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Keywords

CRA-lined pipe; Hydro-forming; Residual contact pressure; Strain

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Fracture toughness and hydrogen embrittlement susceptibility on the interface of clad steel pipes with and without a Ni-interlayer, hungarians passionately love to dance, especially prized national dances, while business risk the primary spatial recognizes a special kind of Martens.
Experimental study and thermodynamic computational simulation of phase transformations in centrifugal casting bimetallic pipe of API 5L X65Q steel and Inconel 625, the corporate culture successively inherits the pyrogenic tensiometer, generating periodic pulses of synchrotron radiation.
Evaluation of Welded Clad Pipe-Microstructures and Properties, indeed, a preamble is possible.
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