

Title (en)

A LOW CARBON WELDED TUBE AND PROCESS OF MANUFACTURE THEREOF

Title (de)

GESCHWEISSTES ROHR MIT NIEDRIGEM KOHLENSTOFFGEHALT UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

TUBE SOUDÉ À FAIBLE TENEUR EN CARBONE ET SON PROCESSUS DE FABRICATION

Publication

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Application

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Abstract (en)

[origin: WO2010122581A2] The present invention relates to low carbon welded tubes and process of manufacture thereof. Manufacture of welded tubes utilising draw bench processes is energy intensive process due to the need of multiple pass (to enhance mechanical properties, in particular tensile and yield strength) to reduce the diameter of the hollow to desired dimensions as only 20 to 35 % reduction achievable in a single pass. Further, there is substantial material loss with every pass and poor control on dimensional stability and surface finish of the tube. The present invention provides a synergistic combination of induction and /or resistance heat treatment of the hollow and the cold rolling process resulting in remarkable reduction in energy consumption, and at the same time enhancing quality of the resulting tubes with improved dimensional stability, closeness of tolerance, reduced thickness variation, concentricity and substantial reduction in material wastage.

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