

Title (en)
PROCESS FOR PRODUCING A STAINLESS STEEL TUBE AND STAINLESS STEEL TUBE

Title (de)
VERFAHREN ZUM HERSTELLEN EINES EDELSTAHLROHRS SOWIE EDELSTAHLROHR

Title (fr)
PROCÉDÉ DE FABRICATION D'UN TUBE EN ACIER INOXYDABLE ET TUBE EN ACIER INOXYDABLE

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Application
EP 15747396 A 20150716

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Abstract (en)
[origin: WO2016016010A1] The present invention relates to a process for producing a high-grade steel tube comprising the steps of providing a tubular blank of an austenitic high-grade steel, wherein the high-grade steel comprises carbon in a proportion of no more than 0.02% by weight, manganese in a proportion of no more than 1.0% by weight, phosphorus in a proportion of no more than 0.03% by weight, sulphur in a proportion of no more than 0.015% by weight, silicon in a proportion of no more than 0.8% by weight, nickel in a proportion of 17.5% by weight to 18.5% by weight, chromium in a proportion of 19.5% by weight to 20.5% by weight, molybdenum in a proportion of 6.0% by weight to 6.5% by weight, nitrogen in a proportion of 0.18% by weight to 0.25% by weight and also copper in a proportion of 0.5% by weight to 1.0% by weight, with a remainder of iron and unavoidable impurities, and cold-forming the blank into a tube. In order to provide a corresponding process for producing a tube from an austenitic high-grade steel that allows the high-grade steel tube to be stranded in a later processing step and at the same time allows the tube to be transported to a location at which this processing step is performed, it is proposed according to the invention that the process additionally comprises the steps of coiling the tube and annealing the coiled tube after the cold-forming at a temperature in a range from 1100°C to 1200°C.

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