

Title (en)

METHOD FOR MAKING SEAMLESS TUBING WITH A STABLE ELASTIC LIMIT AT HIGH APPLICATION TEMPERATURES

Title (de)

VERFAHREN ZUR HERSTELLUNG NAHTLOSER LEITUNGSROHRE MIT STABILER STRECKGRENZE BEI ERHÖHTEN EINSATZTEMPERATUREN

Title (fr)

PROCEDE DE FABRICATION DE TUYAUX DE CONDUITE SANS JOINT, A LIMITE D'ELASTICITE STABLE A DES TEMPERATURES D'UTILISATION ELEVEES

Publication

EP 0954617 A1 19991110 (DE)

Application

EP 97953639 A 19971212

Priority

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Abstract (en)

[origin: WO9831843A1] Disclosed is a method for making seamless tubing in a quality range of X 52 to X 90, with a stable elastic limit up to a temperature of application of 200<0> C and with a steady tension-expansion characteristic, consisting in submitting to a hot rolling process a steel-based source material containing the following alloy components (wt. %): C(0,06 - 0,18 %), Si (max. 0,40 %), Mn (0,80 -1,40 %), P (max. 0,025 %), S (max. 0,010 %), Al (0,010 - 0,060 %), Mo (max. 0,50 %), V (max. 0,10 %), Nb max. 0,10 %, N (max. 0,015 %), W > 0,30 - 1 %), the rest consisting of Fe and the usual impurities. After the hot rolling process, the cooled tubing parts are reheated through AC3, then tempered at a cooling temperature of at least 15 DEG C/s, and annealed at a temperature of 500 to 700 DEG C.

IPC 1-7

C22C 38/12; **C21D 8/10**

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 9831843A1

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