

Title (en)

ELECTRIC-RESISTANCE-WELDED STEEL PIPE FOR LINE PIPES

Title (de)

ELEKTRISCHES WIDERSTANDSGESCHWEISSTES STAHLROHR FÜR LEITUNGSROHRE

Title (fr)

TUYAU EN ACIER SOUDÉ PAR RÉSISTANCE ÉLECTRIQUE DESTINÉ À DES TUYAUX DE CANALISATION

Publication

**EP 3960891 A4 20220727 (EN)**

Application

**EP 19942655 A 20190823**

Priority

JP 2019033068 W 20190823

Abstract (en)

[origin: EP3960891A1] The present invention provides an electric resistance welded steel pipe for a linepipe, in which a base metal portion includes, in terms of % by mass, 0.03% or more and less than 0.10% of C, from 0.30 to 1.00% of Mn, from 0.010 to 0.100% of Nb, from 0.010 to 0.500% of Si, and a balance including Fe and impurities, in which a value of C<sub>Neq</sub> is from 0.12 to 0.25, a ratio Mn/Si is 2.0 or more, and a value of LR is 0.25 or more; in which the base metal portion has a metallographic microstructure which has a ferrite ratio of from 80 to 98%, with a balance structure including pearlite and/or bainite, and which has a difference in hardness (balance structure - ferrite) of from 50 to 100 Hv; in which the electric resistance welded steel pipe satisfies a YS of 360 MPa or more, a TS of 465 MPa or more, and a YR of 0.90 or less; and in which each of the base metal portion and an electric resistance welded portion has a Charpy absorbed energy at 0°C of 100 J or more. C<sub>Neq</sub>=C+Mn/6+Cr/5+Ni/Cu/15+Nb+Mo+V/LR=2.1C+Nb/Mn

IPC 8 full level

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CPC (source: EP KR)

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Citation (search report)

- [Y] WO 2018235244 A1 20181227 - NIPPON STEEL & SUMITOMO METAL CORP [JP]
- [Y] EP 3375900 A1 20180919 - NIPPON STEEL & SUMITOMO METAL CORP [JP]
- [A] EP 3128029 A1 20170208 - JFE STEEL CORP [JP]
- See references of WO 2021038632A1

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DOCDB simple family (application)

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