

Title (en)

SEAMLESS STEEL PIPE FOR LINE PIPE USED IN SOUR ENVIRONMENT

Title (de)

NAHTLOSES STAHLROHR FÜR EIN LEITUNGSROHR IN EINER SAUREN UMGEBUNG

Title (fr)

TUBE EN ACIER SANS SOUDURE DESTINÉ À UN TUBE DE CANALISATION UTILISÉ DANS UN ENVIRONNEMENT ACIDE

Publication

**EP 3006585 B1 20190501 (EN)**

Application

**EP 14803329 A 20140521**

Priority

- JP 2013115135 A 20130531
- JP 2014002662 W 20140521

Abstract (en)

[origin: EP3006585A1] There is provided a seamless steel pipe which is used in line pipe applications, which line pipe is used in sour environments, and is not subjected to quenching and tempering treatment, and in which the occurrence of blisters can be suppressed. The seamless steel pipe according to this embodiment has a chemical composition consisting, in mass% of, C: 0.08 to 0.24%, Si: 0.10 to 0.50%, Mn: 0.3 to 2.5%, P: 0.02% or less, S: 0.006% or less, Nb: 0.02 to 0.12%, Al: 0.005 to 0.100%, Ca: 0.0003 to 0.0050%, N: 0.0100% or less, O: 0.0050% or less, Ti: 0 to 0.1%, V: 0 to 0.03%, Cr: 0 to 0.6%, Mo: 0 to 0.3%, Ni: 0 to 0.4%, Cu: 0 to 0.3%, and B: 0 to 0.005%, the balance being Fe and impurities, has a structure consisting of ferrite and pearlite, and also has a yield strength of 350 to less than 450 MPa.

IPC 8 full level

**C22C 38/00** (2006.01); **C21D 8/10** (2006.01); **C21D 9/08** (2006.01); **C22C 38/02** (2006.01); **C22C 38/04** (2006.01); **C22C 38/06** (2006.01); **C22C 38/12** (2006.01); **C22C 38/14** (2006.01); **C22C 38/16** (2006.01); **C22C 38/18** (2006.01); **C22C 38/42** (2006.01); **C22C 38/44** (2006.01); **C22C 38/50** (2006.01); **C22C 38/54** (2006.01); **C22C 38/58** (2006.01)

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Citation (examination)

KLINKENBERG,C.: "niobium carbide in precipitaton microalloyed steel", STEEL RESEARCH INT`L, vol. 75, no. 11, 10 August 2004 (2004-08-10), pages 744 - 752

Cited by

EP3626841A1; WO2022120337A1; WO2024133917A1

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