

Title (en)

THICK SEAMLESS STEEL PIPE FOR LINE PIPE AND METHOD FOR PRODUCTION THEREOF

Title (de)

DICKES NAHTLOSES STAHLROHR FÜR LEITUNGSROHR UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

TUBE EN ACIER EPAIS SANS SOUDURE POUR TUYAU DE CANALISATION ET SON PROCEDE DE PRODUCTION

Publication

EP 1876254 A1 20080109 (EN)

Application

EP 06728830 A 20060309

Priority

- JP 2006304613 W 20060309
- JP 2005095240 A 20050329

Abstract (en)

A heavy wall seamless steel pipe for line pipe with a high strength and increased toughness, which has a chemical composition, by mass%, that consists of C: 0.03 to 0.08%, Si: not more than 0.25%, Mn:0.3 to 2.5%, Al: 0.001 to 0.10%, Cr: 0.02 to 1.0%, Ni: 0.02 to 1.0%, Mo: 0.02 to 1.2%, Ti:0.004 to 0.010%, N:0.002 to 0.008%, and 0.0002 to 0.005%, in total, of at least one selected from Ca, Mg and REM, and the balance Fe and impurities, optionally including V: 0 to 0.08%, Nb: 0 to 0.05% or Cu: 0 to 1.0%,and that P and S among impurities are not more than 0.05% and not more than 0.005% respective ly. It may contain 0.0003 to 0.01% of boron. A manufacturing method thereof is characterized by cooling rate, heating condition for piercing, and heat treating after pipe making.

IPC 8 full level

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CPC (source: EP US)

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