

Title (en)
LOW ALLOYED STEEL WITH HIGH YIELD STRENGTH AND HIGH SULFIDE STRESS CRACKING RESISTANCE

Title (de)
NIEDRIGLEGIERTER STAHL MIT HOHER DEHNGRENZE UND HOHER SULFID-SPANNUNGSRISSBESTÄNDIGKEIT

Title (fr)
ACIER FAIBLEMENT ALLIÉ À LIMITE D'ÉLASTICITÉ ÉLEVÉE ET HAUTE RÉSISTANCE À LA FISSURATION SOUS CONTRAINTE PAR LES SULFURES

Publication
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Application
EP 11720496 A 20110519

Priority
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Abstract (en)
[origin: WO2011151186A1] Steel containing, by weight: 0.3 to 0.5% C; 0.1 to 1% Si; 1% Mn or less; 0.03% P or less; 0.005% S or less; 0.3 to 1% Cr; 1 to 2% Mo; 0.3 to 1% W; 0.03 to 0.25% V; 0.01 to 0.15% Nb; 0.01 to 0.1% Al, the balance of the chemical composition of the steel consisting of Fe and impurities or residuals resulting from or as a necessary consequence of the smelting and casting processes carried out on the steel. The steel serves for manufacturing weldless pipes for hydrocarbon wells, the yield strength of the steel after heat treatment being equal to or greater than 862 MPa, or even equal to or greater than 965 MPa.

IPC 8 full level
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