Title (en)

WELDABLE HIGH-STRENGTH STRUCTURAL STEEL WITH 13 % CHROMIUM

Title (de)

SCHWEISSBARER HOCHFESTER BAUSTAHL MIT 13 % CHROM

Title (fr)

ACIER SOUDABLE A RESISTANCE ELEVEE AVEC 13 % DE CHROME

Publication

EP 0615551 B1 19970226 (DE)

Application

EP 92923679 A 19921123

Priority

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- DE 9200987 W 19921123

Abstract (en)

[origin: WO9311270A1] The invention relates to a process for the production of seamless steel pipes of flat products (strip or sheet) for pipes or containers intended for the conveyance, transport or processing of gaseous or liquid hydrocarbons containing CO2 and water and possibly small proportions of H2S, and which are resistant to stress corrosion cracking while at the same time being easily weldable and having a 0.2% yield strength of at least 450 N/mm<2>. An Ni-containing steel is used which also has the composition below (in wt %): min. 0.015 % C, 0.15-0.50 % Si, max. 2.00 % Mn, max. 0.020 % P, max. 0.003 % S, 12.0-13.8 % Cr, 0.002-0.02 % N, 0.01-0.05 % Nb, the remainder iron and the usual impurities. According to the invention, it is proposed that the Ni content be limited to a maximum of 0.25 %, the Mn content be at least 1.0 %, the C content be limited to 0.035 % and that as additional alloying component, 0.01-1.2 % Mo be included.

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C22C 38/26; C22C 38/22

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