

Title (en)

process for producing extra high tensile steel having excellent stress corrosion cracking resistance.

Title (de)

Verfahren zum Herstellen von hochfestem Stahl mit ausgezeichneter Beständigkeit gegen Spannungsrisskorrosion.

Title (fr)

Procédé pour la production d'acier à très haute résistance présentant une excellente résistance à la fissuration par corrosion sous contrainte.

Publication

EP 0651059 A1 19950503 (EN)

Application

EP 93117410 A 19931027

Priority

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Abstract (en)

An extra high tensile steel having an excellent stress corrosion cracking resistance in sea water and a yield strength of 1080 MPa or more is provided. A slab comprising, in terms of % by weight, 0.04 to 0.09% of C, 0.01 to 0.10% of Si, 0.05 to 0.65% of Mn, 8.0 to 11.0% of Ni, 0.5 to 1.5% of Mo, 0.2 to 1.5% of Cr, 0.02 to 0.20% of V and 0.01 to 0.08% of Al with the balance consisting of iron and unavoidable impurities is heated to a temperature between 1000 DEG C and 1250 DEG C, hot-rolled at a temperature of Ar' point or above, air-cooled, reheated at a rate of 120 DEG C/min or less to a temperature region of from (Ac3 point - 40 DEG C) to (Ac3 point + 40 DEG C), quenched and subsequently tempered at a temperature of the Ac1 point or below. <IMAGE>

IPC 1-7

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IPC 8 full level

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CPC (source: EP)

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Citation (search report)

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