

Title (en)

HOT-ROLLED AND ANNEALED FERRITIC STAINLESS STEEL SHEET, AND METHOD FOR MANUFACTURING SAME

Title (de)

WARMGEWALZTES UND GEGLÜHTES FERRITISCHES ROSTFREIES STAHLBLECH UND VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)

TÔLE D'ACIER INOXYDABLE FERRITIQUE LAMINÉE À CHAUD ET RECUITE ET SON PROCÉDÉ DE PRODUCTION

Publication

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Application

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Priority

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Abstract (en)

[origin: EP3587610A1] The present invention provides a hot-rolled and annealed ferritic stainless steel sheet which has sufficient corrosion resistance and in which cracks can be prevented during blanking into a thick flange, and a method for manufacturing the same. A hot-rolled and annealed ferritic stainless steel sheet has a chemical composition containing, in percent by mass, C: 0.001% to 0.020%, Si: 0.05% to 1.00%, Mn: 0.05% to 1.00%, P: 0.04% or less, S: 0.01% or less, Al: 0.001% to 0.100%, Cr: 10.0% to 19.0%, Ni: 0.65% to 1.50%, Ti: 0.10% to 0.40%, and N: 0.001% to 0.020%, with the balance being Fe and unavoidable impurities, and has a threshold stress intensity factor K_{IC} of 35 MPa \sqrt{m} or more.

IPC 8 full level

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