

Title (en)

UTILITY FERRITIC STAINLESS STEEL HAVING EXCELLENT HOT WORKABILITY, AND MANUFACTURING METHOD THEREFOR

Title (de)

FERRITISCHER ROSTFREIER NUTZSTAHL MIT AUSGEZEICHNETER WARMVERFORMBARKEIT UND VERFAHREN ZU SEINER HERSTELLUNG

Title (fr)

ACIER INOXYDABLE FERRITIQUE UTILITAIRE POSSÉDANT UNE EXCELLENTE APTITUDE AU FAÇONNAGE À CHAUD ET SON PROCÉDÉ DE FABRICATION

Publication

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Application

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Priority

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Abstract (en)

A manufacturing method of a utility ferritic stainless steel with excellent hot workability is disclosed. The manufacturing method of a ferritic stainless steel according to an embodiment of the present disclosure includes: manufacturing a slab including, in percent (%) by weight of the entire composition, C: 0.005 to 0.020%, N: 0.005 to 0.020%, Si: 0.5 to 0.8%, Mn: 0.5 to 1.5%, Cr: 11.0 to 12.5%, Ni: 0.2 to 0.6%, P: 0.035% or less (excluding 0), S: 0.01% or less (excluding 0), the remainder of iron (Fe) and other inevitable impurities; and hot rolling the slab after heating the slab, and the heating of the slab is performed in a temperature range of 1200 to 1250°C so that the fraction of δ -ferrite phase in the internal structure of the slab is 80 to 95%.

IPC 8 full level

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