

Title (en)
AUSTENITIC STAINLESS STEEL AND MANUFACTURING METHOD THEREOF

Title (de)
AUSTENITISCHER EDELSTAHL UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)
ACIER INOXYDABLE AUSTÉNITIQUE ET SON PROCÉDÉ DE FABRICATION

Publication
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Application
EP 22828661 A 20220615

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Abstract (en)
Disclosed are aa austenitic stainless steel free of surface cracks and having excellent surface roughness in a bent portion and a manufacturing method thereof. The austenitic stainless steel according to an embodiment of the present disclosure includes, in percent by weight (wt%), 0.005 to 0.03% of C, 0.1 to 1% of Si, 0.1 to 2% of Mn, 6 to 12% of Ni, 16 to 20% of Cr, 0.01 to 0.2% of N, 0.25% or less of Nb, and the balance of Fe and inevitable impurities, wherein an average grain size (d) of a central portion in a thickness direction is 5 μm or less, and a martensite area fraction measured in the bent portion after a 180° bending test is 10% or less.

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