

Title (en)
AUSTENITIC STAINLESS STEEL HAVING EXCELLENT FLEXIBILITY

Title (de)
AUSTENITISCHER EDELSTAHL MIT HERVORRAGENDER BIEGSAMKEIT

Title (fr)
ACIER INOXYDABLE AUSTÉNITIQUE PRÉSENTANT UNE EXCELLENTE FLEXIBILITÉ

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Application
EP 15873501 A 20151201

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Abstract (en)
[origin: EP3239341A1] Austenitic stainless steels excellent in flexibility are disclosed. The austenitic stainless steel excellent in flexibility according to the present invention is characterized by comprising, by weight percent, 0.1 to 0.65% of Si, 1.0 to 3.0% of Mn, 6.5 to 10.0% of Ni, 16.5 to 18.5% of Cr, 6.0% or less of Cu (excluding 0), 0.13% or less of (C + N) (excluding 0), and the remainder comprising Fe and unavoidable impurities, wherein the work hardening formula H1 defined by the following formula is 300 or less. $H1 = \text{## } 459 + 79.8 \text{ Si ## } 10.2 \text{ Mn ## } 8.16 \text{ Ni} + 48.0 \text{ Cr ## } 13.2 \text{ Cu} + 623 \text{ C} + \text{N}$

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