

Title (en)

Nitrogen-containing martensitic steel with low carbon content and process for its manufacture.

Title (de)

Stickstoff enthaltendes martensitisches Stahl mit niedrigem Kohlenstoffgehalt und Verfahren zur Herstellung.

Title (fr)

Acier martensitique à l'azote à faible teneur en carbone et son procédé de fabrication.

Publication

**EP 0638658 A1 19950215 (FR)**

Application

**EP 94401751 A 19940729**

Priority

FR 9309858 A 19930811

Abstract (en)

Martensitic stainless steel including: a - from 0.5 to 0.85 % by weight of carbon + nitrogen b - from 0.15 to 0.24 % by weight of nitrogen c - from 0 to 0.50 % by weight of silicon d - from 0 to 0.70 % by weight of manganese e - from 0 to 0.50 % by weight of nickel f - from 14 to 17 % by weight of chromium g - from 1 to 2.5 % by weight of molybdenum h - from 0.10 to 0.70 % by weight of vanadium, the remaining fraction consisting of iron and of residues and the respective contents of each of these elements being determined so as to restrict the residual austenite content to a value lower than 10 % by volume.

Abstract (fr)

Acier inoxydable martensitique comprenant : a - de 0,5 à 0,85% en poids de carbone + azote, b - de 0,15 à 0,24% en poids d'azote, c - de 0 à 0,50% en poids de silicium, d - de 0 à 0,70% en poids de manganèse, e - de 0 à 0,50% en poids de nickel, f - de 14 à 17% en poids de chrome, g - de 1 à 2,5% en poids de molybdène, h - de 0,10 à 0,70% en poids de vanadium la fraction restante étant constituée de fer et de résidus et les teneurs respectives de chacun de ces éléments étant déterminées de façon à limiter la teneur en austénite résiduelle à une valeur inférieure à 10% en volume.

IPC 1-7

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IPC 8 full level

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CPC (source: EP)

**C22C 38/001** (2013.01); **C22C 38/22** (2013.01); **C22C 38/24** (2013.01)

Citation (search report)

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