

Title (en)

Stainless ferritic steel and process for manufacturing this steel.

Title (de)

Rostfreier ferritischer Stahl und Verfahren zur Herstellung dieses Stahls.

Title (fr)

Acier inoxydable ferritique et procédé pour l'élaboration d'un tel acier.

Publication

EP 0388283 B1 19941228 (FR)

Application

EP 90400666 A 19900313

Priority

FR 8903472 A 19890316

Abstract (en)

[origin: EP0388283A1] Ferritic stainless steel with ductility, shock-resistance and corrosion resistance in neutral or weakly acid chloridized media; also the prodn. process for fabrication of this steel. The steel is characterised by the following chemical composn.: 28.5-35 wt.% chromium, 3.5-5.50 wt.% molybdenum, 0.5-2 wt.% copper, less than 0.50 wt.% nickel, less than 0.40 wt.% manganese, less than 0.40 wt.% silicon, less than 0.030 wt.% carbon, less than 0.030 wt.% nitrogen, at least 0.10 wt.% but less than 0.60 wt.% titanium and/or niobium, and up to 0.10 wt.% deoxidizing additives such as aluminium, magnesium, calcium, boron or rare earth metals. The remainder of the material is composed of iron and impurities. The steel is worked in strip form. The steel strip is hot-rolled with reheating to a temp. of 900-1200 deg.C, followed by being cold-rolled. After this there is an intermediate stage of heating to 900-1200 deg.C. before a second cold-rolling. Finally the steel is reheated a last time to 900-1200 deg.C.

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