

Title (en)

HIGH TENSILE STEEL BAND OR SHEET AND METHOD FOR THE PRODUCTION THEREOF

Title (de)

HÖHERFESTES STAHLBAND ODER -BLECH UND VERFAHREN ZU SEINER HERSTELLUNG

Title (fr)

FEUILLE OU TOLE D'ACIER TRES RESISTANTE ET PROCEDE DE FABRICATION DE LADITE FEUILLE OU TOLE

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Application

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Abstract (en)

[origin: US6743307B1] The invention relates to a higher-strength steel strip or steel sheet comprising a predominantly ferritic-martensitic microstructure with a martensite content of between 4 and 20%, wherein the steel strip or steel sheet, apart from Fe and impurities due to smelting, comprises (in % by weight) 0.05-0.2% C, $\leq 1.0\%$ Si, 0.8-2.0% Mn, $\leq 0.1\%$ P, $\leq 0.015\%$ S, 0.02-0.4% Al, $\leq 0.005\%$ N, 0.25-1.0% Cr, 0.002-0.01% B. Preferably the martensite content is approximately 5% to 20% of the predominantly martensitic-ferritic microstructure. Such a higher-strength steel strip or steel sheet made from a dual phase steel comprises good mechanical/technological properties even after being subjected to an annealing process which includes an overageing treatment. Furthermore, the invention relates to a method for producing steel strip or steel sheet according to the invention.

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