

Title (en)

Process for manufacturing high tensile strength hot rolled steel sheet for forming and especially for deep drawing

Title (de)

Verfahren zur Herstellung von warmgewalztem, hochfestem Stahlblech zur Umformung und insbesondere zum Tiefziehen

Title (fr)

Procédé de réalisation d'une bande de tôle laminée à chaud à très haute résistance, utilisable pour la mise en forme et notamment pour l'emboutissage

Publication

EP 1099769 B1 20040317 (FR)

Application

EP 00402987 A 20001027

Priority

FR 9914187 A 19991112

Abstract (en)

[origin: EP1099769A1] Producing a hot rolled steel sheet includes forming the sheet ≤ 880 degrees C, initially cooling for ≤ 10 s, further cooling at 20-150 degrees C/sec to 700-750 degrees C, further cooling at 3-20 degrees C/sec, depending on the sheet thickness, to 640-700 degrees C and then controlled cooling at 20-150 degrees C/sec to 350-550 degrees C. The steel comprises 0.12-0.25% C, 1-2 % Mn, 0.03-2.5% Al, 0.04-2% Cr, 0.02-0.09 % P and $\leq 0.01\%$ S. An Independent claim is included for a hot rolled steel sheet produced as above. Preferred Features: The steel may also include $\leq 0.15\%$ titanium, $\leq 0.15\%$ Nb and $\leq 0.15\%$ V.

IPC 1-7

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CPC (source: EP US)

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Cited by

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