

Title (en)

Use of a steel for the manufacture of construction tubes.

Title (de)

Verwendung eines Stahles zur Herstellung von Konstruktionsrohren.

Title (fr)

Utilisation d'un acier pour la fabrication de tubes.

Publication

EP 0576107 A1 19931229 (DE)

Application

EP 93250116 A 19930421

Priority

DE 4219336 A 19920610

Abstract (en)

The invention relates to the use of a dead-cast air-hardening steel consisting of (in % by weight): 0.15-0.30% of C 0.50 - 0.80% of Si 2.05-3.35% of Mn at most 0.03% of P at most 0.03% of S 0.50-1.00% of Cr at most 0.60% of Mo at most 0.05% of Al 0.01-0.05% of Ti 0.0015-0.0035% of B 0.002-0.015% of N as material for producing construction tubes for mechanically highly stressable construction elements, in particular for door reinforcements in motor vehicle construction, with the proviso that the following relationships are met: $Ti (\%) : N (\%) \geq 3.4\% Mn (\%) + Cr (\%) + Mo (\%) + Si (\%) \geq 3.3\%$

Abstract (de)

Die Erfindung betrifft die Verwendung eines beruhigt vergossenen lufthärtenden Stahls bestehend aus (in Gewichts-%): 0,15 - 0,30 % C 0,50 - 0,80 % Si 2,05 - 3,35 % Mn max. 0,03 % P max. 0,03 % S 0,50 - 1,00 % Cr max. 0,60 % Mo max. 0,05 % Al 0,01 - 0,05 % Ti 0,0015 - 0,0035 % B 0,002 - 0,015 % N als Werkstoff zur Herstellung von Konstruktionsrohren für mechanisch stark beanspruchbare Konstruktionselemente, insbesondere für Türverstärkungen im Automobilbau, mit der Maßgabe, daß die folgenden Beziehungen erfüllt sind: $Ti (\%) : N (\%) \geq 3,4\% Mn (\%) + Cr (\%) + Mo (\%) + Si (\%) \geq 3,3\%$

IPC 1-7

C22C 38/00; **C22C 38/38**

IPC 8 full level

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CPC (source: EP US)

C22C 38/38 (2013.01 - EP US)

Citation (search report)

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