

Title (en)

HIGH-TENSILE, AIR-HARDENABLE STEEL WITH EXCELLENT DEFORMATION PROPERTIES

Title (de)

HOCHFESTER LUFTHÄRTENDER STAHL MIT AUSGEZEICHNETEN UMFORMEIGENSCHAFTEN

Title (fr)

ACIER AUTOTREMPANT A RESISTANCE ELEVEE PRESENTANT D'EXCELLENTE PROPRIETES DE DEFORMATION

Publication

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Application

EP 05811386 A 20051103

Priority

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Abstract (en)

[origin: WO2006048009A1] The invention relates to a high-tensile, air-hardenable steel, which can easily be welded and galvanised, has good tempering properties and exhibits excellent deformation properties, particularly for the construction of light-weight vehicles. The inventive steel is composed of the following elements (contents in mass %): C 0.07 to = 0.15; Al = 0.05; Si 0.15 to = 0.30; Mn 1.60 to = 2.10; P = 0.020; S = 0.010; N 0.0030 to = 0.0150; Cr 0.50 to = 1.0; Mo 0.30 to = 0.60; Ti 0.010 to = 0.050; V 0.12 to = 0.20; B 0.0015 to = 0.0040; the remainder being iron including the usual elements present in steel.

IPC 8 full level

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Cited by

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