Title (en)

HIGH-STRENGTH MULTIPHASE STEEL AND METHOD FOR PRODUCING A STRIP MADE FROM THIS STEEL WITH A MINIMUM TENSILE STRENGTH OF 580 MPA

Title (de)

HOCHFESTER MEHRPHASENSTAHL UND VERFAHREN ZUR HERSTELLUNG EINES BANDES AUS DIESEM STAHL MIT EINER MINDESTZUGFESTIGKEIT VON 580MPA

Title (fr)

ACIER MULTIPHASE À HAUTE RÉSISTANCE ET PROCÉDÉ POUR LA FABRICATION D'UNE BANDE FAITE DE CET ACIER PRÉSENTANT UNE RÉSISTANCE À LA TRACTION MINIMALE DE 580 MPA

Publication

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Application

EP 13732078 A 20130524

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Abstract (en)

[origin: WO2013189474A1] The invention relates to a high-strength multiphase steel with minimum tensile strengths of 580 MPa, preferably a dual-phase structure for a cold-rolled or hot-rolled steel strip with improved forming properties, particularly for lightweight vehicle construction. The multiphase steel consists of the elements (contents in mass-%): C 0.075 to <= 0.105; Si 0.600 to <= 0.800; Mn 1.000 to <= 2.250; Cr 0.280 to <= 0.480; Al 0.010 to <= 0.060; P <= 0.020; N <= 0.0100; S <= 0.0150, remainder iron, including typical steel-accompanying elements not mentioned above, which are impurities introduced by smelting, with the condition that the Mn content is preferably <= 1.500% for strip thicknesses up to 1 mm, the Mn content is preferably <= 1.750% for strip thicknesses of 1 to 2 mm, and the Mn content is preferably >= 1.500% for strip thicknesses >= 2 mm.

IPC 8 full level

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CPC (source: EP KR RU US)

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US 2010003161 A1 20100107 - USAMI AKIRA [JP], et al

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