Title (en)

MEDIUM MANGANESE COLD-ROLLED STEEL INTERMEDIATE PRODUCT HAVING A REDUCED CARBON FRACTION, AND METHOD FOR PROVIDING SUCH A STEEL INTERMEDIATE PRODUCT

Title (de)

MEDIUM-MANGAN-KALTBAND-STAHLZWISCHENPRODUKT MIT REDUZIERTEM KOHLENSTOFF-ANTEIL UND VERFAHREN ZUM BEREITSTELLEN EINES SOLCHEN STAHLZWISCHENPRODUKTES

Title (fr)

PRODUIT INTERMÉDIAIRE EN ACIER LAMINÉ À FROID MEDIUM MANGANÈSE AYANT UN TAUX DE CARBONE RÉDUIT ET PROCÉDÉ POUR LA FOURNITURE D'UN TEL PRODUIT INTERMÉDIAIRE EN ACIER

Publication

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Application

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Abstract (en)

[origin: WO2020011638A1] The invention relates to a method for providing a medium manganese cold-rolled steel intermediate product having an improved fts value, the alloy of which comprises: - a carbon fraction (C) within the range 0.003 wt% < C < 0.12 wt%, - a manganese fraction (Mn) within the range 3.5 wt% < Mn < 12 wt%, - a silicon fraction (Si) and/or an aluminium fraction (Al) as alloy fractions, where Si wt% + Al wt% < 1, - optionally further alloy fractions, - optional microalloy fractions, in particular a titanium fraction (Ti) and/or a niobium fraction (Nb) and/or vanadium fraction (V), and - wherein the remainder of the alloy comprises iron (Fe) and unavoidable impurities of a melt, wherein the method comprises the following step which is carried out after the cold-rolling step: - performing an intercritical box annealing process at a maximum annealing temperature of 684°C - (517°C * the carbon fraction in wt%).

IPC 8 full level

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