

Title (en)

A STEEL SHEET SUITABLE FOR ENAMELLING AND METHOD FOR PRODUCING SUCH A SHEET

Title (de)

EMAILLIERUNGSFÄHIGES STAHLBLECH UND VERFAHREN ZUR HERSTELLUNG EINES SOLCHEN BLECHS

Title (fr)

FEUILLE D'ACIER APPROPRIÉE POUR UN ÉMAILLEAGE ET PROCÉDÉ DE FABRICATION D'UNE TELLE FEUILLE

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Application

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Abstract (en)

[origin: WO2012136270A1] The present invention is related to a rolled steel sheet suitable for enamelling, said sheet having a carbon profile, defined by a gradient in the C-level from a level C_{surface} at least one surface of the sheet, to a level C_{bulk} in the bulk of the sheet, C_{bulk} being higher than C_{surface}, and With I - C_{bulk} higher than 0 and lower than or equal to 0.08wt%, - C_{surface} between 0 and 0.015wt%, - A1 between 0.012wt% and 0.07wt%, Mn between 0.12wt% and 0.45wt%, 0 lower than 0.01wt% and optionally : - Cu between 0.025wt% and 0.1wt%, - S between 0.008wt% and 0.04wt%, - Ca between 0.0005wt% and 0.005wt%, the balance being Fe and incidental impurities, and wherein the depth where the C-level reaches (C_{bulk}+C_{surface}) 12, is higher than 75µm. The invention is equally related to a method for producing said steel sheet.

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