

Title (en)

STEEL SHEET FOR CONTINUOUS CAST ENAMELING WITH EXCELLENT RESISTANCE TO FISHSCALING AND PROCESS FOR PRODUCING THE SAME

Title (de)

STAHLBLECH FÜR STRANGGUSSEMAILLIERUNG MIT HERVORRAGENDEM WIDERSTAND GEGENÜBER FISCHSCHUPPENBILDUNG UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

TOLE EN ACIER POUR EMAILLAGE PAR COULAGE CONTINU AVEC UNE GRANDE RESISTANCE A L'ECAILLAGE ET SON PROCEDE DE PRODUCTION

Publication

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Application

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Priority

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Abstract (en)

The present invention provides a continuously cast enameled steel sheet with remarkably excellent fishscale resistance improving the ability to form spaces in the steel sheet so as to increase the hydrogen trap ability, and a method of production of the same, comprising a steel having as ingredients, by mass%, C: 0.010% or less, Mn: 0.03 to 1.30%, Si: 0.100% or less, Al: 0.030% or less, N: 0.0055% or less, P: 0.035% or less, S: 0.08% or less, O: 0.005 to 0.085%, and B: 0.0003 to 0.0250% and including in the steel sheet not integral or integral oxides differing in mass concentration of B or Mn. The ratio of the maximum concentration and minimum concentration is made 1.2 or more. When not integral, they are present with a straight line distance between centers of the oxides differing in concentration of 0.10 μ m to 20 μ m and with an angle of the line connecting the centers of the two oxides of within $\pm 10^\circ$ from the rolling direction.

IPC 8 full level

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