

Title (en)
STEEL STRIP FOR PRODUCING A NON-ORIENTED ELECTRICAL STEEL, AND METHOD FOR PRODUCING SUCH A STEEL STRIP

Title (de)
STAHLBAND ZUR HERSTELLUNG EINES NICHTKORNORIENTIERTEN ELEKTROBLECHS UND VERFAHREN ZUR HERSTELLUNG EINES SOLCHEN STAHLBANDES

Title (fr)
BANDE D'ACIER DESTINÉE À LA FABRICATION D'UNE TÔLE POUR CIRCUITS MAGNÉTIQUES À GRAINS NON ORIENTÉS ET PROCÉDÉ DE FABRICATION D'UNE TELLE BANDE D'ACIER

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Abstract (en)
[origin: WO2018019602A1] The invention relates to a steel strip for producing a non-oriented electrical steel. To achieve greatly improved frequency-independent magnetic properties, in particular greatly reduced hysteresis losses, in comparison with known electrical steels, the following alloy composition in wt% is proposed: C: ≤0.03, Al: 1 to 12, Si: 0.3 to 3.5, Mn: >0.25 to 10, Cu: >0.05 to 3.0, Ni: >0.01 to 5.0, total of N, S and P: at most 0.07, remainder iron and smelting-related impurities, with the optional addition of one or more elements from the group Cr, Mo, Zn and Sn, wherein the steel strip has an insulation layer substantially consisting of Al₂O₃ and/or SiO₂ with a thickness in the range from 10 μm to 100 μm. The invention also relates to a method for producing such a steel strip.

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