

Title (en)

NON-ORIENTED ELECTROMAGNETIC STEEL SHEET AND METHOD FOR MANUFACTURING SAME

Title (de)

NICHT ORIENTIERTES ELEKTROMAGNETISCHES STAHLBLECH SOWIE VERFAHREN ZU SEINER HERSTELLUNG

Title (fr)

TÔLE D'ACIER ÉLECTROMAGNÉTIQUE NON ORIENTÉ ET SON PROCÉDÉ DE FABRICATION

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Application

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Abstract (en)

The present invention provides a non-oriented electrical steel sheet at low cost that has excellent magnetic properties and mechanical properties as well as excellent quality of steel sheet. The non-oriented electrical steel sheet has a chemical composition containing, by mass%, Si: 5.0 % or less, Mn: 2.0 % or less, Al: 2.0 % or less, and P: 0.05 % or less, in a range satisfying formula (1), and furthermore, C: 0.008 % or more and 0.040 % or less; N: 0.003 % or less, and Ti: 0.04 % or less, in a range satisfying formula (2), with the balance composed of Fe and incidental impurities: $300 \leq 85 \text{ Si} \% + 16 \text{ Mn} \% + 40 \text{ Al} \% + 490 \text{ P} \% \leq 430$, $0.008 \leq \text{Ti}^* < 1.2 \text{ C} \%$, where $\text{Ti}^* = \text{Ti} - 3.4[\text{N}\%]$.

IPC 8 full level

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