

**PRODUCTION METHOD FOR NON-ORIENTED SILICON STEEL
AND NON-ORIENTED SILICON STEEL**

ABSTRACT

5 Disclosed are a non-oriented silicon steel and a production method therefor.
The non-oriented silicon steel is prepared using molten iron desulfurization,
converter smelting, RH refining, continuous casting, hot rolling, acid continuous
rolling, annealing, coating and finishing. The chemical components of the non-
oriented silicon steel, in mass percent, are: $C \leq 0.003\%$; $S \leq 0.008\%$; $Si: 0.35\% + \Delta 1$;
10 $Mn: 0.15-0.25\%$; $P: 0.04-0.06\%$; $Sn: 0.015\% + \Delta 2$; $Nb \leq 0.004\%$; $V \leq 0.004\%$;
 $Ti \leq 0.005\%$; $Mo \leq 0.004\%$; $Cr \leq 0.03\%$; $Ni \leq 0.03\%$; $Cu \leq 0.03\%$; $N \leq 0.003\%$; the
remainder being Fe and inevitable impurities. When the thickness of the non-
oriented silicon steel is 0.5 mm, $P_{1.5/50} \leq 5.5$ W/kg and $B_{5000} \geq 1.75$, and the RH
refining requires no desulfurization treatment.

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The most illustrative drawings: Figure 1