

**NON-ORIENTED SILICON STEEL FOR NEW ENERGY DRIVE
MOTOR, AND PRODUCTION METHOD THEREFOR**

ABSTRACT

The present application discloses a non-oriented silicon steel for a driving
5 motor of a new energy vehicle and a production method thereof. The silicon
steel is produced sequentially by steel smelting, continuous casting, hot rolling,
normalizing, acid washing, single stand cold rolling without pre-heating,
annealing, cooling, coating, and finishing. During steel smelting, no Cu, Cr, Ni,
Nb, V, and Ti are added. The silicon steel comprises the following chemical
10 ingredients: Si: 2.95%-3.15%, Al: 0.75%-0.95%, Si+2Al: 4.6%-4.9%, Mn:
0.5%-0.7%, Sn: 0.03%-0.04%, $C \leq 0.0025\%$, with the balance being iron,
wherein $Mn/S \geq 380$, and $Al/N \geq 200$. In the present application, the strength is
improved while the magnetic performance is ensured, to solve the problem in
the prior art that the magnetic performance and strength cannot be pursued at the
15 same time, thus meeting the requirements for use in driving motors of new
energy vehicles.

No figure.