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Electrical Steels for High-functional Automotive Electrical Components Corresponding to Energy Saving

...^a f ~ µ Masaki Kawano[¶] ™ f d " µ Toshiro Fujiyama[¶] ³ x] L µ Tetsuya Aoki[¶]

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Synopsis :

Electrical steels are applied to some kinds of functional automotive electrical components such as an electrical power steering and a fuel pump. Kawasaki Steel has developed a new electrical steel suitable for the newly developed alternator, which improves the efficiency and the output power. The developed material can attain superiority in both the magnetic properties, namely higher flux density and lower iron losses in a high-frequency range, and the workability for helical winding process. A grain oriented electrical steel with high flux density, suitable for the compactness of direct ignition cores, are also described.

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自動車電装部品の省エネルギー・高機能化に 適応した電磁鋼板*

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Electrical Steels

for High-functional Automotive Electrical Components

Corresponding to Energy Saving



要旨

自動車用電装部品への電磁鋼板の適用状況とその適用例として、
高効率オルタネータに適合した新規電磁鋼板とダイレクトイグニッ

Electrical sunroof regulator
Rear view mirror

テアリングには操舵時のロストルクを重視するため³⁾に履歴損失を低減した電磁鋼板がモータ重量に関係なく、他田崎電機工業株式

Table 1 Magnetic and mechanical properties of the developed material

Table 3 Comparison of typical magnetic properties between 27RGH100N and 27RGH100

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