

Development Trends of Soft Magnetic Iron

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From the advances in electronically controlled system for automobiles, the demand is growing for soft magnetic materials that can provide a larger electromagnetic force with less electric power. New steels with very low carbon content have been developed in consideration of this. The electromagnetic properties such as cold crystallization and permeability. This paper describes the recent development trends of soft magnetic steel and the advances of new developed steel (HCT-REC series).

Introduction

Recently automobiles are being heavily equipped with various systems operated electrically, electronically and/or electromagnetically to control engine, gearbox and fuel economy. Such systems include integrated controlled automatic transmission, electronic power steering (EPS) and anti-lock braking system (ABS)¹⁻³.

In the early years (1970s, 1980s) when electric and electronic devices started to be used in automobiles, the main purpose was to improve and upgrade the performance of individual systems. Highly complicated calculations to control power, however, is increasingly required for high-speed linkage and movement coordinated among different systems. Hence electronically and/or electromagnetically controlled management are becoming increasingly important.

Among these electronically and/or electromagnetically controlled systems, components that utilize electromagnetic force (permeability law) such as their coils to generate magnetic fields. Many conventional ones consist of low carbon steel, containing about 0.05% of carbon, to improve the response to control signals and increase energy efficiency.⁴ With the remarkable advancement of electromagnetic control in recent years, it has become essential to electronically components to have even higher performance and lower power consumption.

This paper describes the trend of soft magnetic materials, such as those for low carbon steel in electromagnetic components, and introduces the characteristics of the new, low-carbon soft magnetic materials in the HCT-REC (Ultra Low Carbon Cold Heading Steel) series developed by New Steel.

2. Transition of soft magnetic materials

Fig. 1 depicts the structure of a solenoid device

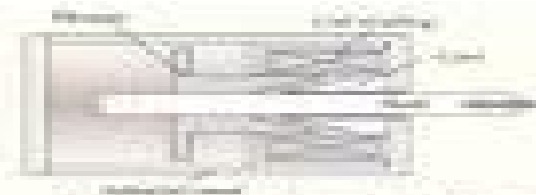


Fig. 1 Example of solenoid structure

by hydraulic control. This is a typical example of the electromagnetic components used in automobiles. Soft magnetic materials are usually used for these coils that have magnetic circuits and for the housings including cores.

Early solenoid devices for automobiles were mainly used for controlling the oil flow by small sections. Thus, the reliability and workability of low cost materials were more important than their magnetic characteristics. As a result, low carbon steels such as SAE1010, SAE1015, SAE1018 and SAE1020 (JIS-C 1008) were used for the low-cost.

Recent solenoid devices, however, must be able to control hydraulics exactly and stably. In contrast this, the small control is being replaced by linear control in many cases.⁵⁻⁷ On the linear control, the control current must be proportional to the plating force (electromagnetic force) of the low coils, which increases with magnetic materials having low coercivity (low hysteresis) at high flux density. The latest low cost materials for these solenoids are required to have magnetic characteristics better than those of SAE1018 (JIS-C 1018), making it difficult for low carbon steel formerly used for small control, to satisfy the required characteristics of magnetic materials and coercivity (Fig. 2).

In the mid-1990s, New Steel worked to totally eliminate factors that can adversely affect the magnetic characteristics of soft magnetic materials and developed a soft magnetic material, HCT-REC (low-carbon steel, which can achieve the best characteristics among 98 grade (98-99.99%) materials.⁸ The company has studied parts having using a forging process and parts fabrication from the material is being widely used as a soft magnetic material for cold forging.

In the late 1990s, there was an increasing need for

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