“ABSORSHEILD®” Noise Suppression Sheet
[Information System Components Company]

The ABSORSHEILD® Noise Suppression Sheet is a compound of the FINEMET® powder and resin. It can be used over a wide frequency range of 100 MHz to 10 GHz. The sheet is thin, flexible and easy to install in your equipment, and is also halogen-free and incombustible (UL94V-0 certification obtained). ABSORSHEILD® is suitable for noise suppression of onboard electronic devices such as car navigation system.

UL File No. E210819
UL (Underwriters Laboratories, Inc.) is a nonprofit U.S. organization that investigates and certifies the safety of various materials, products, structures, systems and the like.

“FM shield™” Magnetic Shielding Sheet
[Information System Components Company]

The FM Shield™ Magnetic Shielding Sheet consists of a FINEMET® ribbon sandwiched with PET films on both sides. The sheet is thin (0.12 mm thick), flexible and lightweight. It provides an excellent shielding effect for DC current and in a frequency range of several hundred kHz. It also features little characteristic deterioration after cutting or bending and does not require heat treatment. This magnetic shielding sheet is suitable for use in such applications as magnetic field shielding for LCDs, the shielding of flexible PC board wiring and radiation-prevention in steel case.

“MS-AM series” Amorphous Magnetic Shielding Tapes
[Information System Components Company]

These thin (0.1 mm thick) and lightweight Amorphous Magnetic Shielding Tapes consist of a Co-based amorphous ribbon with a PET film on one face and a double-faced adhesive tape on the other. They are more flexible than FINEMET® magnetic shield tapes so that they can be easily wrapped around electric cords.

The Hitachi Metals Group has developed conductive separator materials and filters to improve the performance of fuel cells, thereby supporting the propagation of fuel cell technology as one type of next-generation eco-friendly car.

Fuel Cells

Fuel Cell Components and Materials

“ZMG™ 232” Separator Material
[Specialty Steel Company]

ZMG™ 232 is a separator material for SOFC (Solid-oxide fuel cell). SOFCs are expected primarily because of the highest power generating efficiency among various types of fuel cells. The requirements of the optimum separator material are resistance to oxidation for long-run operations under high temperatures of 900 to 1000 °C and a coefficient of thermal expansion similar to that of the electrolyte, and also good conductivity. ZMG™ 232, which was developed by Hitachi Metals, is a ferrite base alloy that can meet the needs of higher-performance, large-scale and lower-cost fuel cells.

Metal Porous Sintered Compacts
[Hitachi Metals Precision, Ltd.]

Our porous sintered compacts are manufactured into various forms by the combination of different forming technologies with the power metallic technology. Using diversified materials such as corrosion-proof and heat-resistant materials, different sized pores ranging from 0.5-micron micro pores to several millimeter-order large pores can be optimally created according to application.

They are suitable for such applications as air-water separating zones, Pb (lead)-membrane supports and carriers for reformers.