

Products by Segment

Leveraging the Vast Potential of Materials to Fulfill the Needs of the Global Community

The Hitachi Metals Group boasts a treasure trove of global “only one, number one” products with applications spanning a variety of fields. This achievement is the result of well-coordinated efforts in our production, development and marketing sections to ascertain the requirements of society at large and work in unison with customers.

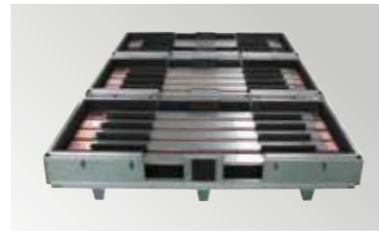
Committed to anticipating future needs, we will eagerly pursue new challenges and responsibilities. As a manufacturer of highly functional materials, the Hitachi Metals Group will continue to develop innovative products that create new markets.

High-Grade Metal Products and Materials

- High-grade specialty steel
- Rolls
- Cutting tools
- Amorphous metals



DAC-MAGIC™ die cast tool steel
This die cast tool steel combines sufficient high-temperature strength and durability to tolerate the heat cycle of heating and cooling.



Sputtering target materials
Unique new materials are developed and supplied for use in liquid crystal displays, touchscreens and other next-generation applications.



Piston ring materials
Contributing to enhanced engine performance, high-performance piston ring materials are available in contour and multi-gauge strips.



Rolls for steel mills
A broad spectrum of rolls is available for steel, nonferrous and non-metal rolling applications.



Metglas® amorphous metals
This soft magnetic material lowers electric energy consumption by reducing the loss from transformers and related devices, thereby contributing to the reduction of CO₂ emissions.

High-Grade Functional Components and Equipment

- High-grade casting components for automobiles
- Piping components
- Construction components



HERCUNITE™ heat-resistant exhaust casting components
Offering increased resistance to heat and oxidation, these components are used in the exhaust lines of automobiles, including exhaust manifolds and turbine housings. They improve the environmental friendliness of automotive products.



High-toughness ductile iron castings HNM™ series
The HNM™ series of castings have excellent low-temperature toughness and extremely accurate dimensions. With the use of computer-aided engineering (CAE) technologies, they can be delivered in a near-net-shape state, contributing to the production of thin-walled automobile components that are lighter.



SCUBA™ aluminum wheels
These automobile wheels are created by employing high-precision casting and CAE technologies, and meet discerning demands for high strength, light weight and advanced design.



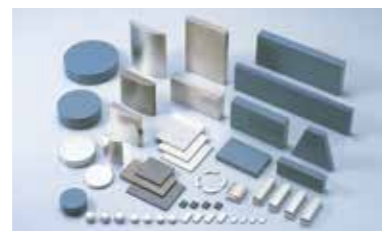
Polyethylene gas piping systems
Our corrosion-free, serviceable and earthquake-resistant polyethylene tubes and joints provide better solutions for gas piping.



Pipe fittings for general use
These eco-friendly pipe fittings for general use are galvanized with a highly pure form of zinc that has a significantly low lead and cadmium content.

Magnetic Materials and Applications

- Magnets
- Soft ferrite and other soft magnetic materials, and their applications



NEOMAX® rare-earth magnets

Magnets
A variety of high-performance products are supplied, including the world's top brand NEOMAX® rare-earth magnets, as well as ferrite magnets.



NMF™ series sintered ferrite magnets



Soft ferrite and other soft magnetic materials, and their applications
Soft ferrite is an iron oxide-based soft magnetic material. Its applications range from use in household products to use in products for industrial, IT-related, automotive, and various other products.



FINEMET™ nanocrystalline magnetic materials
FINEMET™ nanocrystalline magnetic materials developed by Hitachi Metals are used in products we supply to reduce electromagnetic noise, power electronic components, etc.



Amorphous metal cut cores
Through their use as solar power generation inverters, wind power generation converters, and other power conversion system reactors, amorphous metal cut cores make a handsome contribution to further raising power conversion efficiency.

Wires, Cables, and Related Products

- Electric wires and cables
- Automotive products
- Information system devices and materials
- Metal and component products



Wires and cables for rolling stock
Our wires and cables are used in bullet trains and many other trains operated in Japan and overseas in cabs, underfloor wiring, and wiring between rolling stock, transmitting electricity and signals for railways and thereby supporting railroad infrastructure.



Probe cables for ultrasound diagnostic equipment
These lightweight cables excel in elasticity and flexibility, and have high-quality electrical characteristics. They provide ease of handling and high-definition images, contributing to the development of medical equipment.



Enameled wire for high-efficiency motors
This wire product is used in the drive motors of hybrid vehicles, industrial-use servomotors, and other such products, reducing the impact on the environment and saving energy.



Harnesses for use in hybrid vehicles
Harnesses connect the battery, inverter, and motor in hybrid vehicles. Our products have superior heat resistance, oil resistance, and flexibility, and they are extremely reliable in high-voltage and large current areas.



APRESIA™ Ethernet switches
Our wide variety of products are used by telecommunications carriers in their wide-area Ethernet and mobile networks, and also meet the LAN system construction needs of general businesses and government agencies, thereby comprehensively supporting the information and telecommunication infrastructure.

* Ethernet is a registered trademark of Fuji Xerox Co., Ltd.