



Shin-Etsu Chemical Co., Ltd.

Shin-Etsu Profile 2026

Chemistry at work

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Business Principle

The Group actively conducts in sustainable business practices and creates the value sought by society and industry through the provision of unrivaled key materials technologies.



The 100-Year History of the Shin-Etsu Group

Since its establishment in 1926 as Shin-Etsu Nitrogen Fertilizer Co., Ltd., the Shin-Etsu Group has continually transformed its business with an eye to the future, and today holds the top share of the global market for many materials and products, including polyvinyl chloride (PVC) resins and semiconductor silicon. This is the result of its continuous pursuit of world-class technology and quality, constant efforts to improve productivity, and timely and appropriate capital investment with a view toward the future. We aim for further growth as a world-leading essential supplier by continuing to provide products that contribute to solving the challenges of its customers and industries.

For more information on our Group history, please visit our website.
<https://www.shinetsu.co.jp/en/company/history/>



1926

2026 Toward the Future

1926

Established as Shin-Etsu Nitrogen Fertilizer Co., Ltd.

Started production of limestone nitrogen, a chemical fertilizer, using two gifts of nature: the water of Shinano area (Nagano Prefecture) and the limestone of Echigo area (Niigata Prefecture).



1953

Started production of silicone

Started production at the Isobe Plant (Gunma Prefecture), pioneering the commercialization of silicone in Japan.



1956

Launched PVC production

Started PVC production based on acetylene obtained from carbide.

1960

Started production of high-purity silicon

Concluded a technology license agreement with Siemens AG (Germany) and started production of high-purity silicon. Wafer processing began in 1962.

1962

Commercialized cellulose derivatives

1967

Started rare earth production

1973–

Start of international expansion of semiconductor silicon business

Started production in Malaysia, followed by production in the USA (1979) and UK (1984).



1974

Shintech (USA) started operations

Started operations at Shintech's Freeport Plant (Texas), a PVC plant with an annual production capacity of 100,000 metric tons.

1980–

Start of expansion of silicones business in Japan and overseas

In addition to expansion of the Isobe Plant, established bases in the USA (1985), South Korea (1986), Taiwan (1987), and the Netherlands (1989) to accelerate overseas expansion.

1998

Commercialized photoresists

Commercialized photoresists, which were one of the themes of the Z-Committee aimed at discovering new businesses. Promoted the strengthening of semiconductor-related materials.

2001

Started mass production of 300mm wafers

Started mass production of 300mm wafers at the Shirakawa Plant (Fukushima Prefecture). Augmented production capacity in Japan and the USA while focused on ensuring non-price competitiveness through promoting high quality.



2008

Shintech's new plant started operations

Started integrated production from salt electrolysis to vinyl chloride monomers (VCM) and PVC resins at Plaquemine Plant (Louisiana, USA).



2009

Commercialized photomask blanks

2013

Asia Silicones Monomer Ltd. (Thailand) became a wholly owned subsidiary

2019

Established new photoresist plant in Taiwan

2020

Shintech started production of ethylene

Started producing ethylene at Plaquemine Plant, establishing an in-house integrated production system starting from the main raw material of PVC.



2024

Mimasu Semiconductor Industry Co., Ltd. became a wholly owned subsidiary

2026

Isesaki Campus (Gunma Prefecture) started operations

Started operations of a new production site for lithography materials, essential for the manufacture of advanced semiconductors. The vision is to develop it into an advanced hub for semiconductor lithography materials and other areas, including research and development in the future.



2026

Shintech announced capital investments in raw material production plants for PVC

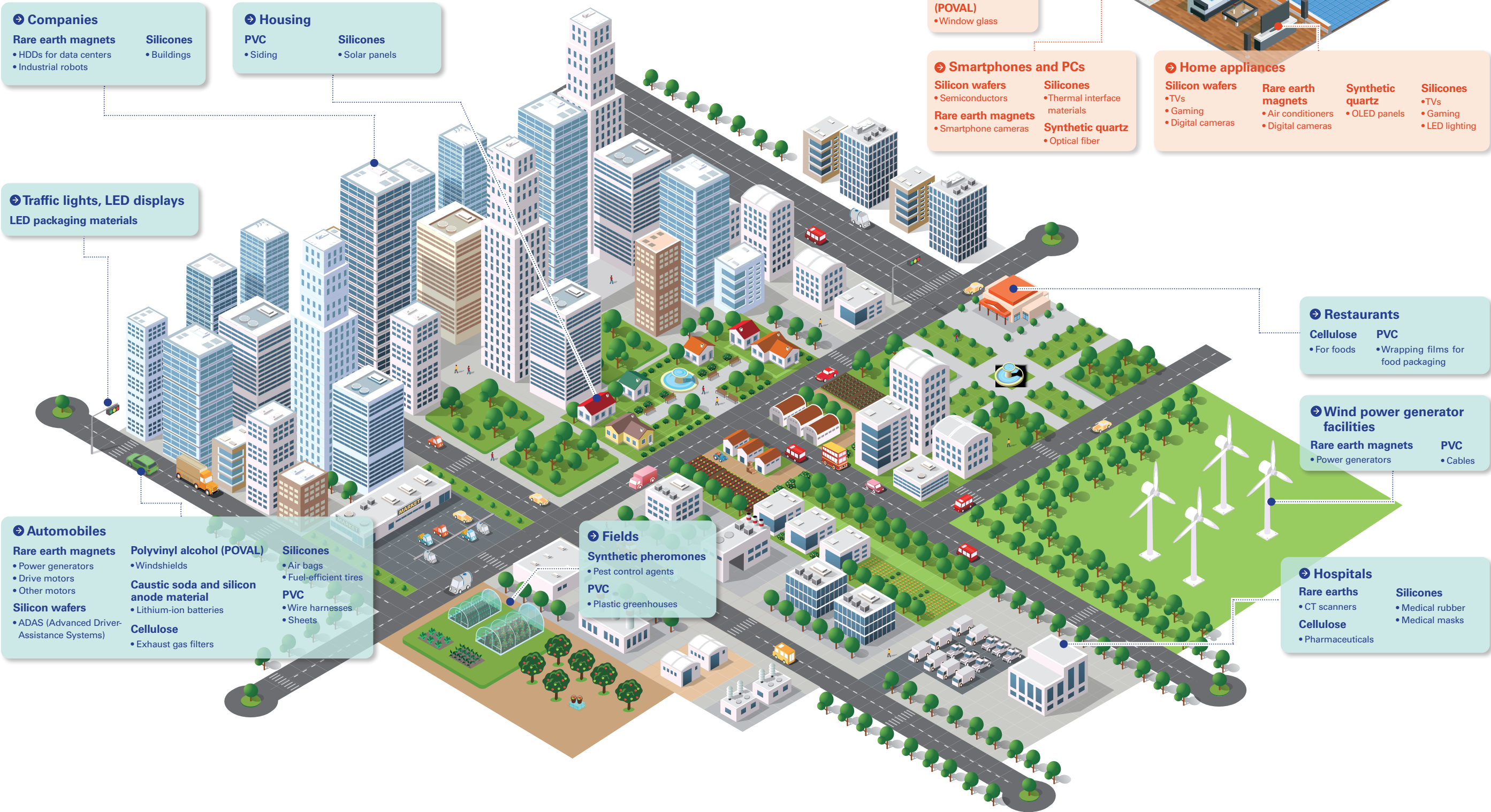
Announced the construction of new ethylene plants, which are the primary raw materials for PVC, as well as electrolysis and vinyl chloride monomer plants. Further business strengthening will be promoted by stabilizing and improving the efficiency of raw material procurement.



Shin-Etsu Everywhere

The Shin-Etsu Group products are used in a wide range of our daily life, such as homes, offices, and automobiles. Electronic materials such as semiconductor silicon (silicon wafers) and photoresists support an increasingly sophisticated society, being used in PCs, smartphones, industrial equipment, and more. In addition, polyvinyl chloride (PVC) resin is used as a fundamental material for housing and infrastructure facilities, while silicone is utilized in a wide range of fields such as automobiles, electronic devices, cosmetics, and construction materials. In this way, the Shin-Etsu Group contributes to enriching society through diverse products.

Shin-Etsu in the City





Business Segments

The Shin-Etsu Group provides products that contribute to solving the challenges of our customers and industries through four business segments: Electronics Materials, Infrastructure Materials, Functional Materials, and Processing & Specialized Services.



Electronics Materials

➔ P.9

Supporting the advancement of all fields including semiconductors through our material technology that enables better application to electronics, optics, and magnetics

Major Products

- ☐ Semiconductor silicon (Silicon wafers)
- ☐ Photoresists
- ☐ Photomask blanks
- ☐ Rare earth magnets
- ☐ Rare earths
- ☐ Semiconductor encapsulating materials
- ☐ LED packaging materials
- ☐ Synthetic quartz products

Functional Materials

➔ P.15

Contributing to improving the functions of various products and resolving social issues, such as reducing environmental impact

Major Products

- ☐ Silicones
- ☐ Cellulose derivatives
- ☐ Liquid fluoroelastomers (SHIN-ETSU SIFEL™)
- ☐ Pellicles
- ☐ Silicon anode material for lithium-ion batteries
- ☐ Optical isolators / Faraday rotators
- ☐ Synthetic pheromones
- ☐ Silicon metal
- ☐ Vinyl chloride-vinyl acetate copolymer resin (SOLBIN™)



Infrastructure Materials

➔ P.13

Supporting infrastructure, housing, and daily life across the world

Major Products

- ☐ Polyvinyl chloride (PVC) resins
- ☐ Caustic soda
- ☐ Methanol
- ☐ Chloromethane
- ☐ Polyvinyl alcohol (POVAL)
- ☐ Vinyl acetate



Processing & Specialized Services

➔ P.18

Meeting diverse needs by applying materials and utilizing engineering

Major Products & Services

- | | |
|---|--|
| Shin-Etsu Polymer Co., Ltd. | Shin-Etsu Engineering Co., Ltd. |
| ☐ Input devices | ☐ Engineering |
| ☐ Wafer cases | ☐ Vacuum assembling equipment |
| ☐ Wrapping films | ☐ Micro LED chip transfer equipment |





Electronics Materials

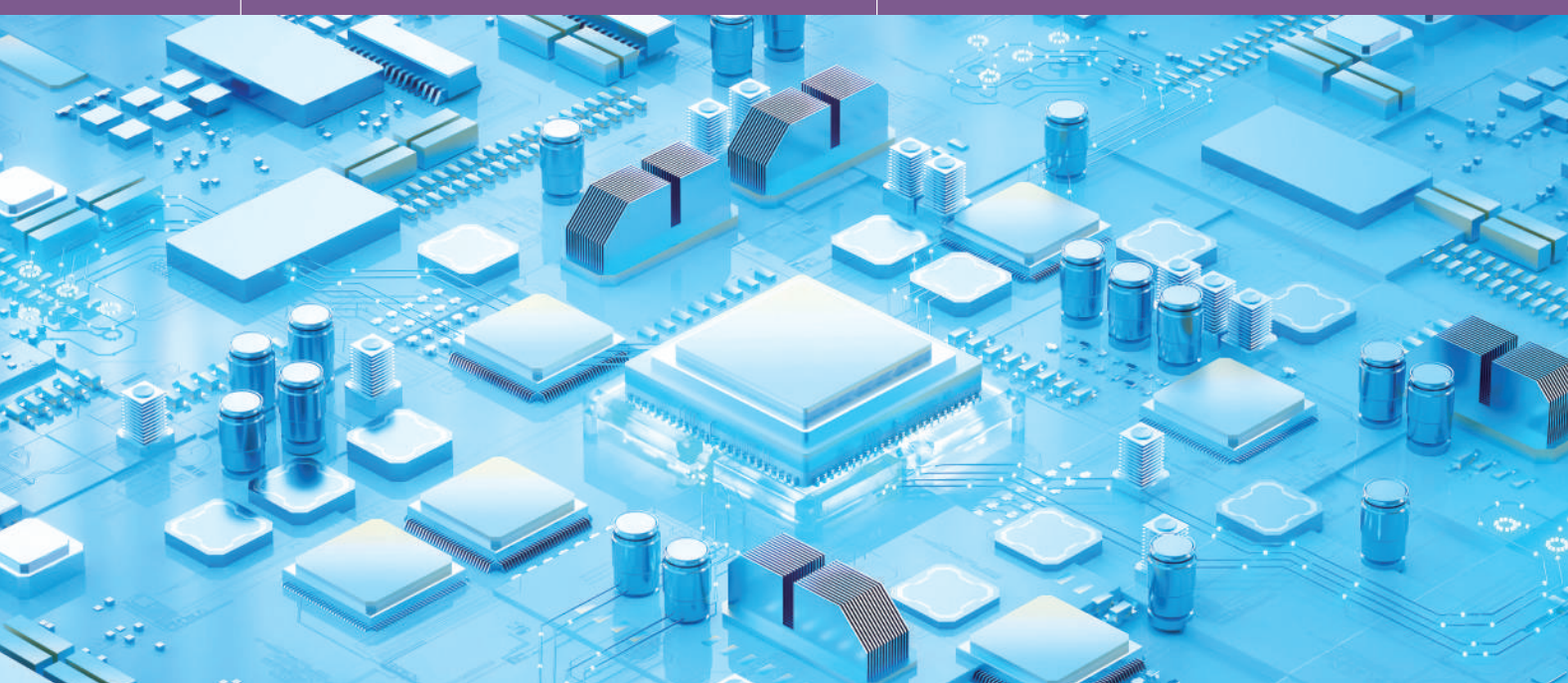
Supporting the advancement of all fields including semiconductors through our material technology that enables better application to electronics, optics, and magnetics

Semiconductors that support the rapidly advancing field of AI are expected to see further technological sophistication and an even greater expansion in demand. Our Group provides materials and technologies that contribute to the higher functionality, smaller size, lighter weight, and lower power consumption of electronic devices, such as silicon wafers, which are substrate materials for semiconductors.

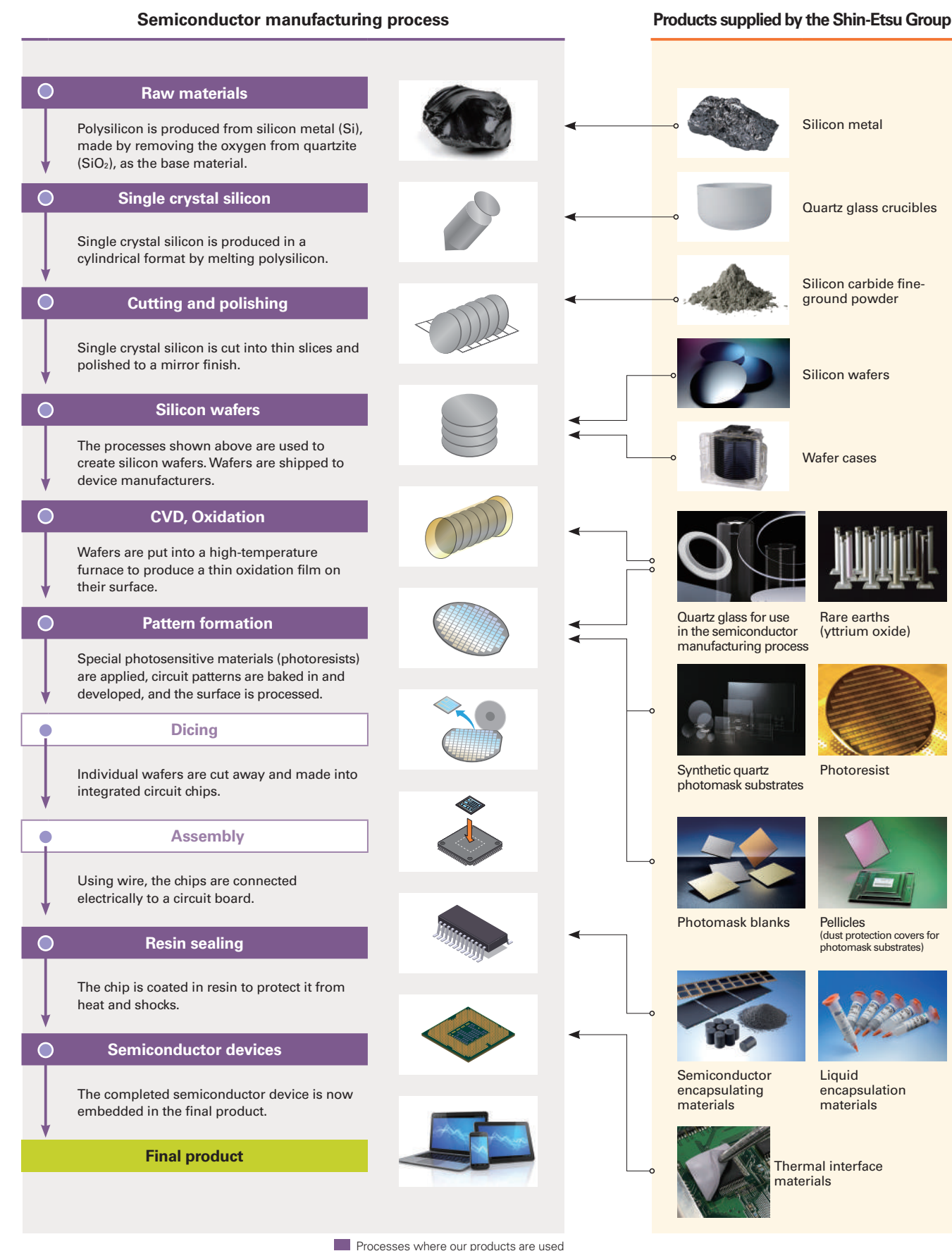
Major Products

- P.11 Semiconductor Materials Department**
 - Semiconductor silicon (Silicon wafers)
- P.11 New Functional Materials Division**
 - Photoresists
 - Photomask blanks
- P.11 Magnetic Materials Division**
 - Rare earth magnets
- P.12**
 - Rare earths

- P.12 Organic Hybrid Materials Division**
 - Semiconductor encapsulating materials
 - LED packaging materials
- P.12 Advanced Materials Division**
 - Synthetic quartz products



Shin-Etsu Group Products Associated with the Overall Semiconductor Manufacturing Process





Semiconductor Materials Department

➡ Silicon wafers

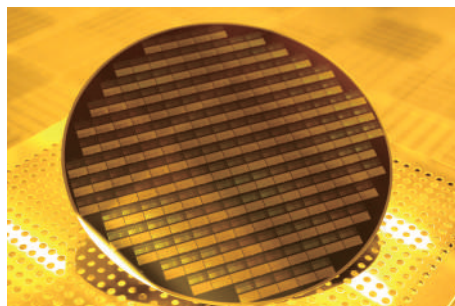
Silicon wafers are the substrate material for semiconductors and are used in a wide range of areas, from smartphones and other devices that we see in our daily lives, to cutting-edge fields such as AI, supporting the foundation of electronic technology. As the world's leading silicon wafer company, the Shin-Etsu Group has earned high praise as it pursues super-flattening technologies, high-precision single crystal growth technologies, high-quality epitaxial growth technologies, among others. As demand is expected to grow for silicon wafers as an essential material for expansion in the semiconductor industry, we are meeting the expectations of society with a stable supply.



New Functional Materials Division

➡ Photoresists

Photoresists are photosensitive resin used in the process of drawing circuits for semiconductors and other devices on silicon wafers. Circuit patterns are formed by irradiating light through a photomask with a circuit pattern drawn on the photoresist applied to the surface of a silicon wafer and causing a reaction. Our photoresists are compatible with cutting-edge lithography technologies using light sources ranging from i-line to KrF, ArF, and EUV. We also provide spin-on coating middle/under-layer materials for advanced tight pitch design processes.



Silicon wafer with photoresist coating after pattern formation

➡ Photomask blanks

Photomask blanks are photomask materials that have a light-shielding thin film formed on a synthetic quartz substrate, and are used as originals for circuits to be drawn on silicon wafers. In addition to KrF and ArF, we have established mass production technology for cutting-edge photomask blanks, including multilayer film structures, transparent film structures with excellent light resistance, and blanks for EUV.



Magnetic Materials Division

➡ Rare earth magnets

Rare earth magnets are powerful magnets used in automobile drive motors, power generators, and hard disk drive drives for data centers. They have about 10 times more magnetic force than conventional ferrite magnets, contributing to improved energy efficiency and reduced greenhouse gas emissions. We are engaged in the manufacture of these magnets from the separation and refinement of rare earths as raw materials to the magnet product, and we provide a stable supply of high-quality products that achieve both improved magnet performance and reduced use of heavy rare earths through our proprietary technology.

Hybrid vehicles



Rare earth magnets product site
<https://www.shinetsu-rare-earth-magnet.jp/e/>



Magnetic Materials Division

➡ Rare earths

Rare earths have a diverse range of applications that utilize their electrical and physical characteristics. As such, they are called the "vitamins of the high-tech industry" and they support people's daily lives. They are used in various ceramic parts for lightweight and durable automobile bodies, in semiconductor manufacturing processes, and in light emitting elements for CT scanners.

CT (Computed Tomography) scanners



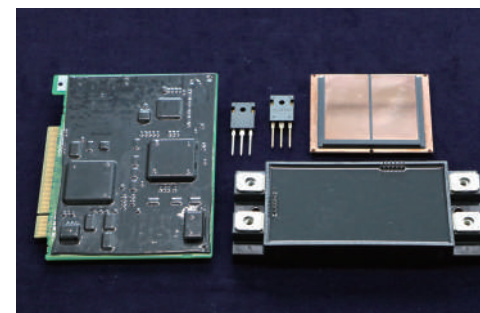
Rare earths product site
<https://www.rare-earth.jp/en/>



Organic Hybrid Materials Division

➡ Semiconductor encapsulating materials

These materials protect semiconductor chips and other components from heat and physical shock. These materials are notable for their superior heat and crack resistance and are used in general semiconductors, as well as automotive power modules. Furthermore, the encapsulating materials for large-scale packaging improve utilization rate and contribute to the reduction of manufacturing costs.

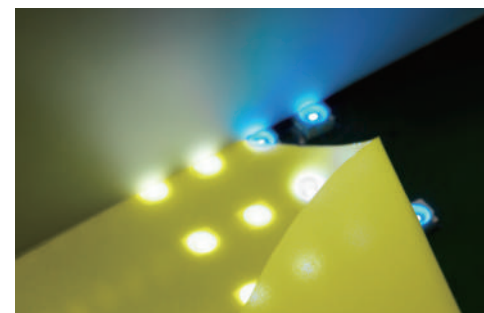


Organic Hybrid Materials Division product site
<https://www.shinetsu-encap-mat.jp/e/>



➡ LED packaging materials

These materials offer high transparency, heat resistance, and other excellent properties, and help prevent the degradation of LED brightness over a long period of time.



Advanced Materials Division

➡ Synthetic quartz products

Synthetic quartz is the primary raw material for optical fibers, which possess "overwhelming transparency" to transmit light with almost no loss. While ordinary plate glass attenuates light in about 2 meters, synthetic quartz achieves a high level of transparency that allows light to travel approximately 100 km.

The Shin-Etsu Group was the first in the world to succeed in the mass production of synthetic quartz with a higher purity than natural quartz. In addition to optical fiber applications for data centers, leveraging features such as high purity, high chemical resistance, and high transmittance, our products are used for photomask substrates essential for the fine patterning of semiconductor circuits, as well as large-scale photomask substrates for flat panel displays such as LCDs and OLEDs. We support cutting-edge digital infrastructure and semiconductor and display manufacturing from the material level, contributing to the advancement of society and the evolution of industry.



Synthetic quartz glass substrate (VIOSIL)



Preform for optical fiber



Optical fiber made of preform



Infrastructure Materials

Supporting infrastructure, housing, and daily life across the world

PVC is used as a construction and infrastructure-related material, supporting our daily lives. Additionally, approximately 60% of its raw materials are derived from salt, making it a material with low dependence on petroleum resources. We contribute to the realization of a sustainable society through PVC.

Major Products

- P.14 **PVC Department, PVC Division**
 - Polyvinyl chloride (PVC) resins
- P.14 **Chlor, Alkali & Derivatives Department, PVC Division**
 - Caustic soda
 - Methanol
 - Chloromethane
- P.14 **JAPAN VAM & POVAL Co., Ltd.**
 - Polyvinyl alcohol (POVAL)
 - Vinyl acetate



PVC Department, PVC Division

➔ PVC resins

PVC is used for water supply and sewerage systems, window profiles, and many other applications. It is extremely durable and easy to work with. It can also be easily recycled and has a low environmental impact. For these reasons, it is widely used in items around us.

PVC pipes



PVC pipes do not need to be replaced for at least 50 years, helping to extend the useful life of infrastructure.

PVC window profile



PVC window profiles have better thermal insulation than aluminum window profiles, helping reduce energy consumption and CO₂ emissions.

Plastic greenhouses for agriculture

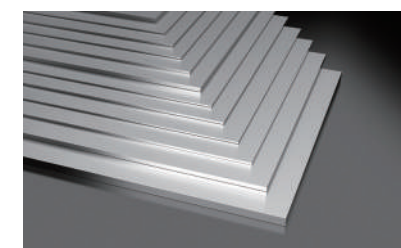


PVC is a resource-saving material, and more than 50% of the PVC used in agricultural greenhouses is recycled.

Chlor, Alkali & Derivatives Department, PVC Division

➔ Caustic soda

Caustic soda is a base chemical produced from the electrolysis of salt, and is indispensable to various industries.



Caustic soda is used for the production of alumina, one of the raw materials in adsorbents and abrasives.

➔ Methanol

Methanol is an alcohol with the simplest molecular structure—it has just one carbon atom. It serves as the raw material for our products in the form of silicones and other materials, and we provide a stable supply by collaborating with customers in multiple locations.



Methanol transport trains are promoting a modal shift and advancing efforts aimed at achieving environmentally friendly logistics.

➔ Chloromethane

Chloromethane boasts strong solvency and is used for metal cleaning and reaction solvents. We produce high-purity chloromethanes which boast strong solvency.



"Shin-Etsu SOLEANA" series is used for the precision cleaning and steam cleaning of metal components and molds.

JAPAN VAM & POVAL Co., Ltd.

➔ POVAL (PVOH)

POVAL is a water-soluble synthetic resin. Leveraging those properties, POVAL has many applications, including various types of film, adhesives, dispersants, and pharmaceutical additives.

Automobile windows



POVAL has strong adhesion properties and excellent transparency, so it is also used for the interlayers of automobile windshields and other types of safety glass.

Capsule detergent



POVAL film is tough and highly water-soluble, so it is used for detergent packaging, agricultural chemical packaging, hospital laundry bags, and other applications.

➔ Vinyl acetate

Vinyl acetate is a monomer used mainly as a raw material for synthetic resin emulsions. It is used not only for homopolymerization, but also for copolymerization with ethylene or vinyl chloride.



Synthetic resin emulsions are water-based, easy to handle, and highly safe, and are used in paints and adhesives.



Functional Materials

Contributing to improving the functions of various products and resolving social issues, such as reducing environmental impact

We provide materials that achieve excellent functionality with low environmental impact across all fields, such as silicones based on silicon (Si), which is the second most abundant element on Earth after oxygen, and cellulose derivatives derived from plant-based pulp.

Major Products

- P.16

Silicone Division

 - Silicones
- P.16

Cellulose & Pharmaceutical Excipients Department, Organic Chemicals Division

 - Cellulose derivatives
- P.17

Special Functional Products Division

 - Liquid fluoroelastomers (SHIN-ETSU SIFEL™)
 - Pellicles
 - Silicon anode material for lithium-ion batteries
 - Optical isolators / Faraday rotators
- P.17

Fine Chemicals Department, Organic Chemicals Division

 - Synthetic pheromones
- P.17

International Division

 - Silicon metal
- P.17

Nissin Chemical Industry Co., Ltd.

 - Vinyl chloride-vinyl acetate copolymer resin (SOLBIN™)



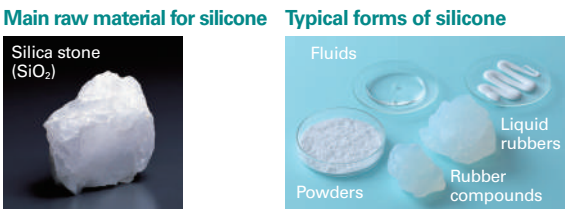
Silicone Division

Silicone product site
<https://www.shinetsusilicone-global.com/>



➔ Silicones

Silicones are synthetic compounds created from silica stone, which is abundant on Earth. They possess both inorganic and organic properties, and are equipped with numerous excellent characteristics. They are a high-performance resin with great flexibility in product design and infinite possibilities. Due to these characteristics, they are used in a wide range of industrial fields. We also provide products that reduce environmental impact, such as by achieving energy savings in the manufacturing processes of our customers.



Major characteristics of silicone

Weather resistance	Heat resistance	Cold resistance	Adhesion properties
Defoaming properties	Electrical insulation properties	Water repellency	Release properties

Cosmetics



Silicones improve the texture and feel of cosmetics and meet demands for higher functionality and quality.

Electric vehicles (EVs)



Silicones are used in thermal interface materials for electrical components, in line with the ever-increasing performance of EVs.

Childcare products



Silicones have no characteristic rubber smell, are superior in durability and safety, and are used for baby bottle nipples and other products.

Buildings



With excellent heat, cold, and weather resistance, as well as great durability, silicones are widely used as a material in construction and civil engineering.

Plastic products



Silicones are used to improve the functionality of a variety of plastic products, including the housings of electronic devices.

Textile treatment agents



By treating textiles with silicone, various functions can be imparted, such as a soft texture or water repellency.

Cellulose & Pharmaceutical Excipients Department, Organic Chemicals Division

Cellulose product site
<https://www.metolose.jp/en/>



➔ Cellulose derivatives

Cellulose derivatives are manufactured from pulp, a natural material derived from plants, and offer a wide range of properties, such as adhesion, thickening, gelation upon heating and film formation, while being safe for the human body. They are widely used in pharmaceutical, industrial, and food applications.



Pharmaceutical use



They are used as coating agents, disintegrants, and binders for tablets, providing control of the dissolution site within the body and the duration of drug release.

Industrial use



They are used as a molding aid for automobile exhaust gas filters, helping to reduce environmental impact.



Special Functional Products Division

➔ SHIN-ETSU SIFEL™

Shin-Etsu Chemical was the first in the world to successfully develop SHIN-ETSU SIFEL™, a liquid fluoroelastomers that utilizes silicone addition-reaction technology to cure into a flexible rubber elastic body upon heating. Combining excellent processability with superior resistance to heat, cold, and oils, it is widely utilized in essential applications across the automotive, electronics, and semiconductor manufacturing equipment industries.

Special Functional Products Division product site
<https://www.sifel.jp/en/>



➔ Pellicles

Pellicles are dust protection covers for photomasks. Featuring outstanding light resistance and uniform transmittance, combined with rigorous measures to ensure low outgassing, our pellicles support the continuous miniaturization of semiconductor devices. Furthermore, we mass-produce ultra-large pellicles for flatpanel displays.



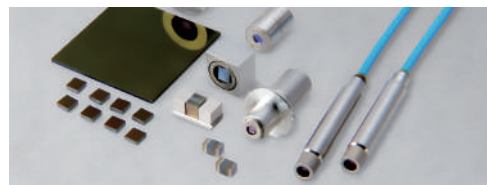
➔ Silicon anode material for lithium-ion batteries

Highly anticipated for use in high-capacity, high-output lithium-ion batteries, we supply SiO anode materials utilizing our proprietary lithium pre-doping technology. Furthermore, we are actively developing next-generation silicon-based anode materials to meet evolving market demands.



➔ Optical isolators / Faraday rotators

We pioneered the development of lead-free garnet crystals for Faraday rotators in optical isolators, ensuring compliance with the EU RoHS Directive. By establishing a fully integrated production system—spanning from garnet crystal growth to isolator assembly—we supply high-quality optical isolators optimized for the high-capacity communications demanded by generative AI data centers and other advanced applications.



Fine Chemicals Department, Organic Chemicals Division

➔ Synthetic pheromones

Synthetic pheromones are artificially synthesized and used as environmentally friendly pest control agents as they obstruct the mating process, thereby suppressing reproduction.



International Division

➔ Silicon metal

Silicon metal is the main raw material for silicone resin, polysilicon for semiconductors and solar cells, and synthetic quartz. It is also used as an additive for aluminum and many other alloy metals.



Nissin Chemical Industry Co., Ltd.

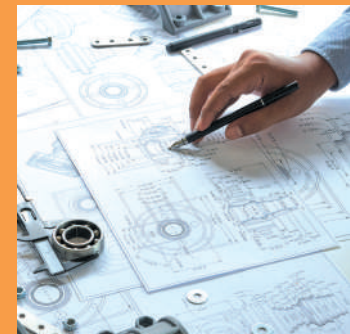
➔ SOLBIN™

A copolymer resin that is prepared primarily from vinyl chloride and vinyl acetate, which are notable for their superior adhesiveness and solubility. It is mainly utilized in coatings, paints, inks, and adhesives.



Processing & Specialized Services

Meeting diverse needs by applying materials
and utilizing engineering



Major Products & Services

P.18

Shin-Etsu Polymer Co., Ltd. · Input devices · Wafer cases · Wrapping films

Shin-Etsu Engineering Co., Ltd. · Engineering · Vacuum assembling equipment · Micro LED chip transfer equipment

Shin-Etsu Polymer Co., Ltd.

Shin-Etsu Polymer Co., Ltd. website
<https://www.shinpoly.co.jp/en/index.html>



Shin-Etsu Polymer Co., Ltd. specializes in processing a wide range of materials, including PVC and silicone, to meet the diverse needs of customers in industries such as automotive, information equipment, semiconductors, packaging materials, and construction materials.

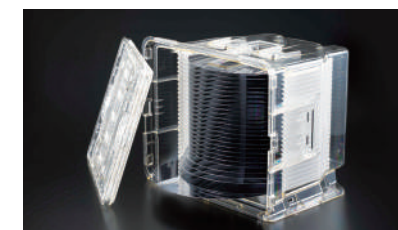
➔ Input devices

It provides automotive input devices, including switches used in steering wheels and power windows.



➔ Wafer cases

It provides shipping containers for silicon wafers and in-process containers for device manufacturers.



➔ Wrapping films

It provides PVC-based food wrapping films with excellent stretchability and cling performance.



Shin-Etsu Engineering Co., Ltd.

μ-Material Machine Business Unit product site
<https://www.shinetsu-microtech.jp/en/>



Shin-Etsu Engineering Co., Ltd. is mainly involved in the design and construction of the Group's plants.

➔ Engineering

Shin-Etsu Engineering conducts plant design and construction and equipment maintenance for the Shin-Etsu Group.



➔ Vacuum assembling equipment

Shin-Etsu Engineering also designs and manufactures vacuum assembling equipment for LCD panels, enabling large-scale liquid crystal panel production.



➔ Micro LED chip transfer equipment

This equipment transfers micro-LED chips quickly and accurately, thereby promoting the widespread use of micro-LED displays.





Shin-Etsu Group Products Enabling AI Proliferation

AI is realized through multiple layers of infrastructure that is invisible in our daily lives, including semiconductor chips, package substrates, servers, data centers, and communications networks. As an essential supplier supporting AI, the Shin-Etsu Group provides a wide range of materials to each layer of the AI infrastructure.



➤ Semiconductor chips

Semiconductor chips are integrated circuits manufactured by forming nanoscale transistors and interconnects on silicon wafers. AI data centers require GPUs capable of processing massive amounts of data at high speeds, as well as high large-capacity memory.

☐ Related Products

- Silicon wafers
- Photoresists
- Photomask blanks
- Pellicles, etc.

➤ Package substrates

Package substrates are components that provide electrical connections between semiconductor chips and circuit boards. Recently, they have taken on various functions such as efficiently dissipating heat generated by semiconductor chips and mitigating warpage.

☐ Related Products

- Encapsulating materials
- Silicones, etc.

➤ Data centers

AI servers

AI servers are high-performance computers used for AI training and inference. They require a stable power supply and cooling systems to manage heat generated under heavy workloads.

Storage

AI workloads involve repeatedly reading and writing massive amounts of data for training and updating models, making data storage a crucial component. Data centers use combinations of NAND Flash Storage (SSDs) for storing training data and models, and HDDs for cost effective storage of large volumes of data.

☐ Related Products

- Silicon wafers
- Photoresists
- Photomask blanks
- Pellicles
- Rare earth magnets
- Silicones, etc.

➤ Communications networks

In AI data centers, connectivity among GPUs, between servers, within, across, and between data centers determines performance. High-bandwidth, low-latency high-speed communication and highly reliable network equipment are required.

☐ Related Products

- Synthetic quartz products (Preforms for optical fibers)
- Optical isolators / Faraday rotators, etc.

➤ AI Economy* Industries (robotics, automotive, agriculture, medical fields, etc.)

It is believed that AI will move beyond its role as an “excellent conversational partner” and will be implemented in robots, autonomous vehicles, home appliances, consumer electronics, and other devices in the future. This evolution is expected to create demand for semiconductor chips that perform or assist AI processing on the device side for real-time judgment and control, as well as for even more advanced materials that realize complex and smooth movements in robots.

*AI Economy: The scope of industries and fields that are expected to enter a new stage as AI becomes increasingly implemented in society is referred to here as the “AI Economy,” and its associated sectors as “AI Economy Industries.”

☐ Related Products

- General electronic materials
- Silicones, etc.



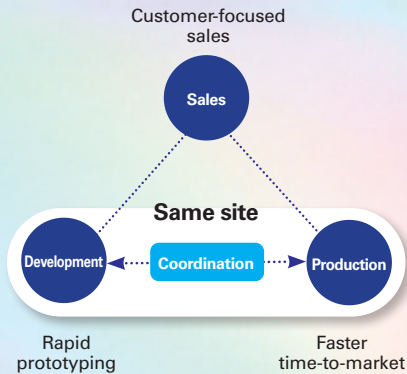
R&D

Supporting customers through “tripartite teamwork” among sales, development, and production

Tripartite teamwork among sales, development, and production enables us to develop products that meet our customers’ needs and deliver them quickly.

Rapid Response to Customer Needs

All our R&D centers are located on plant sites, allowing for close coordination with production departments. Research departments actively work together with sales departments to visit customers and identify their latent needs and issues as they develop materials. At the same time, research departments work with production departments in practical development and prototyping to stabilize quality and scale up to mass production. Tripartite teamwork among sales, development, and production enables rapid product development tailored to customer needs.



R&D Centers of the Shin-Etsu Group

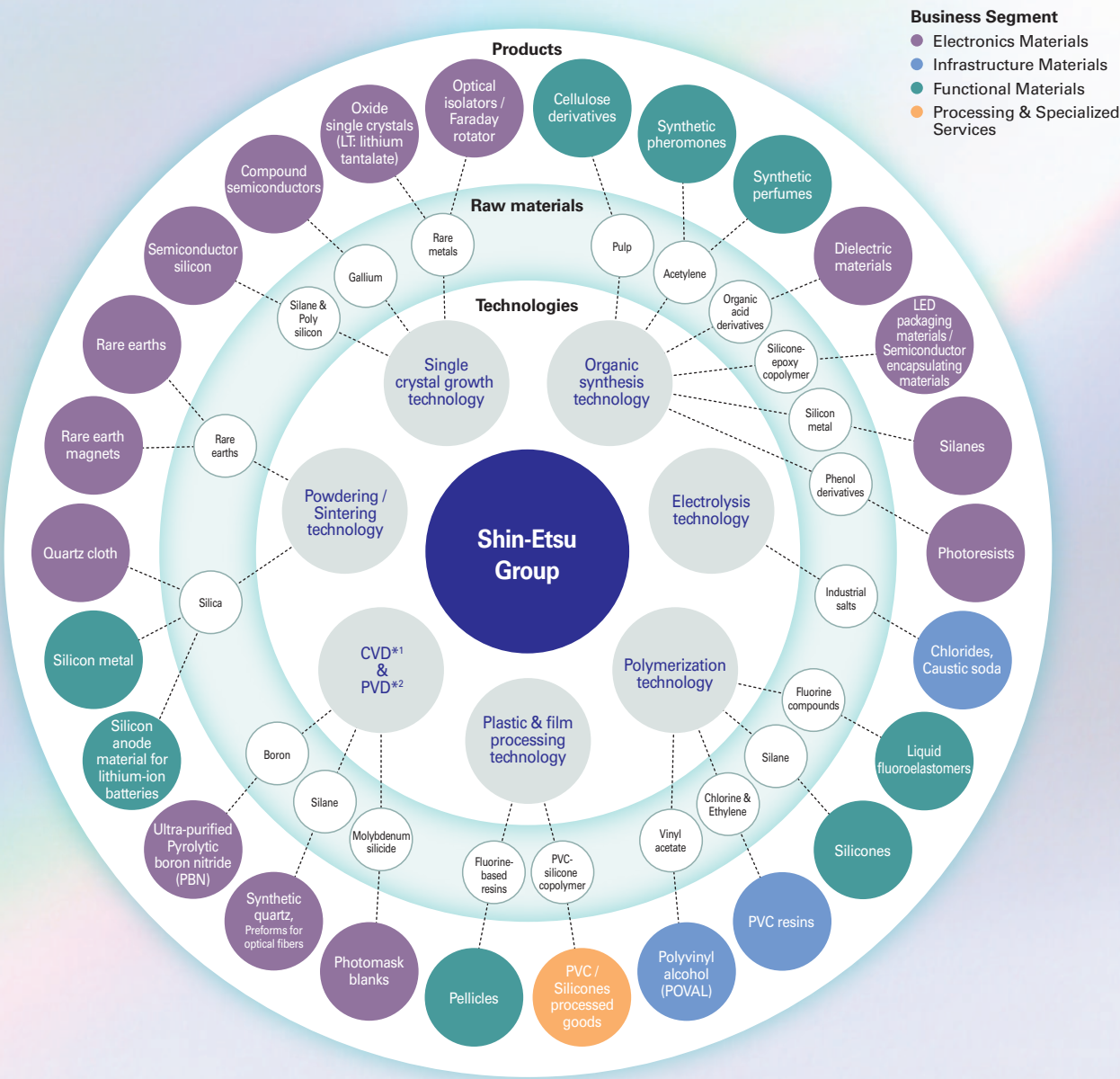
Specialty Chemicals Research Center	Using proprietary organic synthesis technologies, this center is working to develop a variety of cellulose derivatives, synthetic pheromones, and specialty silanes. The center is also active in the development of synthetic quartz substrate materials.
New Functional Materials Research Center	This center was established as a research center for electronics materials. This center is working on the development of photoresists, photomask blanks, and other materials related to semiconductors.
Magnetic Materials Research Center	This center develops process technologies to separate and refine rare earths, as well as rare earth magnets that use rare earths as raw materials. This center is initiating development and application of materials using proprietary powder control and magnetic-field analysis technologies.
Silicone-Electronics Materials Research Center	As a comprehensive center for silicones and organic electronics materials, it engages in a wide spectrum of R&D activities, including synthesis, composites, formulation, processing, and manufacturing process.
Advanced Functional Materials Research Center	Based on its accumulated single-crystal-growth, fine-processing, and thin-film technologies, this center is undertaking development in a wide range of advanced materials that includes oxide single crystals and optical fiber preforms.
PVC & Polymer Materials Research Center	This center supports the technologies of our PVC resin manufacturing bases worldwide, with research into the manufacturing process focusing on consistent quality and improved productivity in PVC resin products, in addition to applied research. The center is also developing new functional materials.
Isobe R&D Center, Shin-Etsu Handotai Co., Ltd.	This center engages in the development of cutting-edge technology for the evaluation and analysis techniques of silicon wafers, and R&D for new products that cater to next-generation needs.
Shirakawa R&D Center, Shin-Etsu Handotai Co., Ltd.	This center supports quality improvement of silicon wafers, reducing defects and improving flatness, and develops technologies for higher performance and device miniaturization.

World-Renowned R&D Activities

At Shin-Etsu Chemical, we promote research with IP rights such as patent rights in mind, and educate each individual researcher so that they can prepare documents for rights acquisition regarding IP. We also have a system in place to recognize personnel who have made significant contributions to the Company in the form of inventions and ideas. As a result of these efforts, Clarivate, one of the world’s leading information services providers, recognized us as one of the Clarivate Top 100 Global Innovators 2026. The annual award recognizes the companies and institutions that have the most impact on shaping the future of global innovation. We are the only chemical company to have received this award for 15 consecutive years. Shin-Etsu Chemical was also chosen for the first time by LexisNexis, a provider of legal and intellectual property databases and information services, to be ranked in its Innovation Momentum 2026: The Global Top 100 of leading companies. The annual award assesses the momentum of a company’s technological development capabilities, taking into account factors such as TECHNOLOGY RELEVANCE based on the total number of patent citations and MARKET COVERAGE based on the market size where the patents are protected.



Technologies, Materials and Products of the Shin-Etsu Group



*1 CVD (Chemical Vapor Deposition)
A method of decomposing raw material gas by adding energy such as heat, plasma, or light, and depositing a film through a chemical reaction.

*2 PVD (Physical Vapor Deposition)
A method for adhering and depositing on the substrate surface by evaporating and scattering solid raw materials as atomic/molecular particles by heating, sputtering, ion beam irradiation, etc.



Sustainability

The Shin-Etsu Group has established a Basic Sustainability Policy based on its Business Principle, which states: “The Group actively conducts in sustainable business practices and creates the value sought by society and industry through the provision of unrivaled key materials technologies.” Seeking to make contributions that benefit shareholders, investors, customers, business partners, local communities, employees, and all other stakeholders, the Group is committed to sustainability in all aspects of its corporate activities.

For more information on sustainability, please visit our website.
<https://www.shinetsu.co.jp/en/sustainability/>



Basic Sustainability Policy

The Shin-Etsu Group will:

- 1. Do our best to increase the Group’s corporate value through sustainable growth and make multifaceted contributions to society.
- 2. Carry out all of our company activities while always placing the utmost priority on safety.
- 3. Expand those businesses that contribute to the reduction of greenhouse gas emissions.
- 4. Maximize the efficiency of product development and manufacturing, and contribute to higher efficiency of society by supplying our products thus produced.
- 5. Engage in business activities while taking biodiversity into account and seeking harmony with the global environment.
- 6. Strive to respect human rights, assure equality in employment opportunities, and support the self-fulfillment of our employees.
- 7. Appropriately disclose information in a timely manner.
- 8. Carry out healthy, trustworthy, transparent corporate activities in compliance with laws and regulations based on the integrity of the Group’s ethical values.

Key Sustainability Issues

The foundation of all activities: Legal compliance, fair corporate activities	Health and safety of employees and contractors	Energy-saving, resource-saving, and reduction of the environmental impacts
Product quality improvements and product safety control	Promoting CSR procurement and the diversification of supply sources	Respect for human rights, the development of human resources, and the promotion of diversity
Respect for and protection of intellectual property	Contribution to industry and social initiatives	Accurate and timely information disclosure and communication with stakeholders

Sustainability Initiatives through Our Products

- ➔ **Polyvinyl chloride (PVC) resins**
Sustainable materials that enrich daily life

[Environmental Value]
It offers excellent thermal insulation and durability, contributing to a reduction in environmental impact through long-term use and energy savings.
[Application Examples]
 - PVC window profiles: Reduces heating and cooling energy with high thermal insulation performance
 - Water and sewage pipes: Reduces resource consumption through extended service life
- ➔ **Rare earth magnets**
High-performance magnets supporting energy efficiency

[Environmental Value]
By realizing high-efficiency motors, they contribute to the reduction of power consumption and the improvement of energy efficiency.
[Application Examples]
 - Electric vehicles: Energy saving with small, high-output motors
 - Air conditioners: Reduce power consumption through improved compressor efficiency

TOPIC Silicone rubber for molding that enables energy savings during manufacturing

When customers mold silicone rubber, after the initial molding, further heating is required to remove residual low-molecular-weight siloxanes from the molded product and to improve or stabilize its physical properties. Shin-Etsu Chemical has developed and is selling molding silicone rubber that eliminates the need for post-molding heat treatment. By using this silicone rubber, customers have been able to save energy during manufacturing, reduce environmental impact, improve productivity by shortening production time, and save space by eliminating the need for dryers.

Plant Initiatives for Reducing Environment Impact

In addition to energy saving and the introduction of renewable energy, we are working to reduce greenhouse gas emissions by promoting the effective use of electricity and steam through cogeneration systems. We are also promoting the environmental impact reduction of entire plants through the recycled use of water resources, wastewater management, waste reduction, and air pollution prevention.

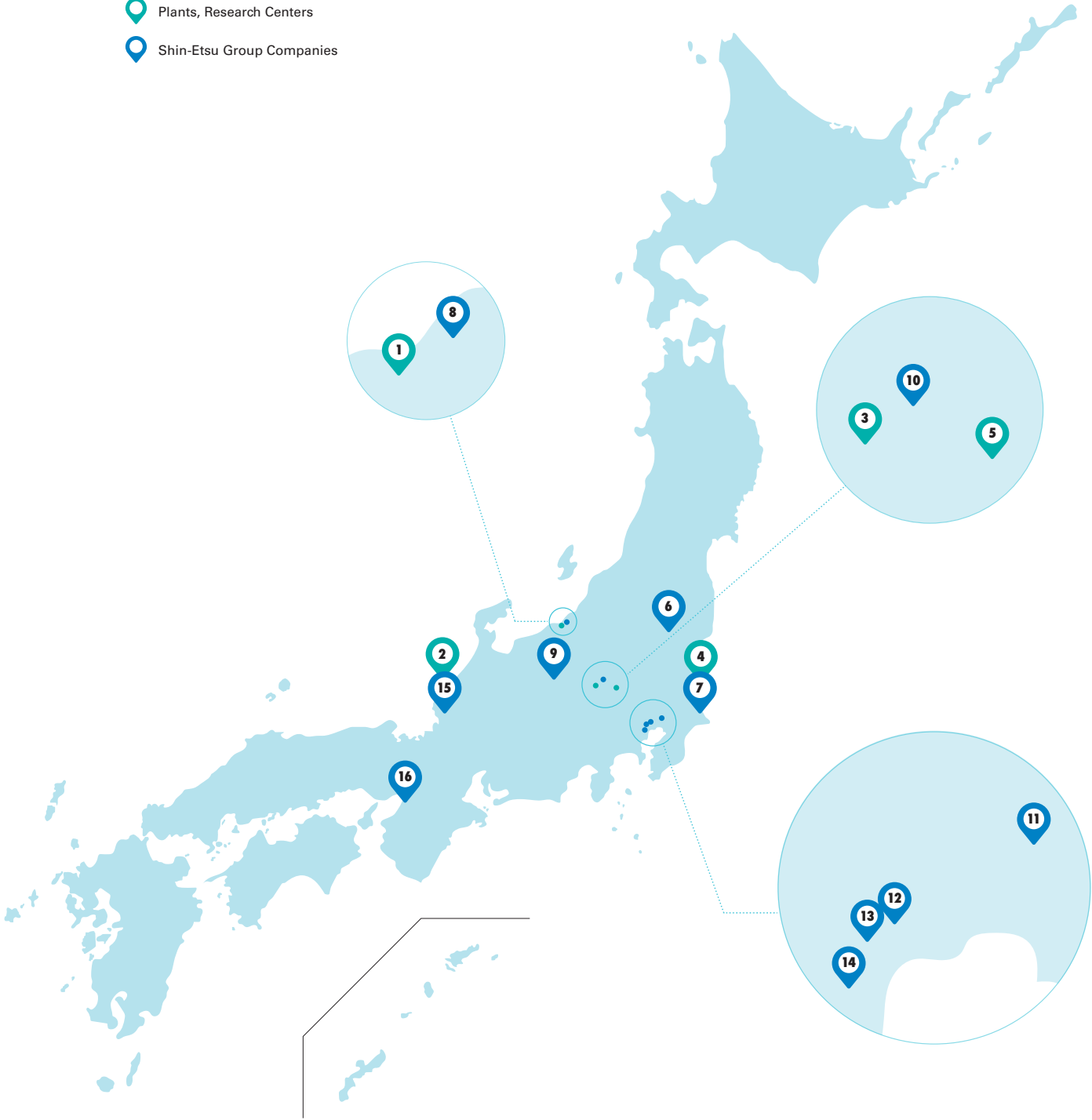


Cogeneration systems (efficiently supplying electricity and steam)



Shin-Etsu Group Major Sites in Japan

- Plants, Research Centers
- Shin-Etsu Group Companies



Please visit our website for location details.
<https://www.shinetsu.co.jp/en/company/network/>



Plants

			Products
Niigata	1	Naoetsu Plant	Cellulose derivatives, Silicones, Synthetic quartz, Synthetic pheromones, Chloromethanes, Caustic soda, Photoresists, etc.
Fukui	2	Takefu Plant	Rare earths, Rare earth magnets, Silicones, etc.
Gunma	3	Gunma Complex Isobe Plant	Silicones, Semiconductor encapsulating materials, etc.
	3	Gunma Complex Matsuida Plant	Silicones, SHIN-ETSU SIFEL™, etc.
Ibaraki	4	Kashima Plant	PVC resins, Synthetic quartz products, Caustic soda, etc.
Gunma	5	Isesaki Campus	Semiconductor lithography materials

Research Centers

		Research	
Niigata	1	Specialty Chemicals Research Center	Research and development of cellulose derivatives, synthetic pheromones, etc.
	1	New Functional Materials Research Center	Research and development of electronics functional materials including photoresists and photomask blanks
Fukui	2	Magnetic Materials Research Center	Development of processing technology for the separation and refining of rare earths, and rare earth magnets
Gunma	3	Silicone-Electronics Materials Research Center	Research and development of silicones and organic electronics materials
	3	Advanced Functional Materials Research Center	Development of advanced materials such as oxide single crystals and synthetic quartz
Ibaraki	4	PVC & Polymer Materials Research Center	Manufacturing process research and applied research of PVC resin

Shin-Etsu Group Companies

* Location of head office listed for Group companies other than Shin-Etsu Handotai Co., Ltd.

* Due to the scale of the map, nearby head office locations are grouped together and displayed as representative points.

Fukushima	6	Shin-Etsu Handotai Co., Ltd. Shirakawa Plant	Production and sales of semiconductor silicon wafers and compound semiconductors
Ibaraki	7	Kashima Chlorine & Alkali Co., Ltd.	Electrolysis business (production and sales of caustic soda and chlorine)
	7	Kashima Vinyl Chloride Monomer Co., Ltd.	Production and sales of vinyl chloride monomer
Niigata	8	Naoetsu Electronics Co., Ltd.	Production, processing and sales of semiconductor silicon wafers
	8	Naoetsu Precision Co., Ltd.	Production, processing and sales of photomask substrate and other electronics materials
Nagano	9	Nagano Electronics Industrial Co., Ltd.	Production, processing and sales of semiconductor silicon wafers and other products
Gunma	10	Mimasu Semiconductor Industry Co., Ltd.	Manufacture and sales & marketing of semiconductor silicon wafers (Prime Wafers, Reclaimed Wafers)
Chiba	11	Maruki Chemical Ind. Co., Ltd.	Production, processing and sales of synthetic resin sheets and synthetic leather
Tokyo	12	Tatsuno Chemical Industries, Inc.	Production, processing and sales of various types of synthetic resin
	13	Shinano Electric Refining Co., Ltd.	Production and sales of silicon carbide products
	13	Shin-Etsu Polymer Co., Ltd.	Production and sales of synthetic resin products
	13	Shin-Etsu Astech Co., Ltd.	Construction businesses and sales of chemical products and others
	13	Shin-Etsu Engineering Co., Ltd.	Engineering services for plant design and construction, and the manufacture and sale of mechatronics systems for the production of flat-panel displays such as LCDs and PDPs
	14	Shin-Etsu Quartz Products Co., Ltd.	Production and sales of quartz glass products
Fukui	15	Nissin Chemical Industry Co., Ltd.	Production and sales of synthetic resin emulsions and other products
	15	Shin-Etsu Film Co., Ltd.	Production and sales of films for condensers and other applications
Osaka	16	JAPAN VAM & POVAL Co., Ltd.	Production and sales of vinyl acetate monomer and polyvinyl alcohol



Shin-Etsu Group Major Overseas Sites



Europe

The Netherlands	1	Shin-Etsu Silicones Europe B.V.	Production and sales of silicone products
	2	Shin-Etsu International Europe B.V.	Sales of chemical products, electronics materials and others
	3	Shin-Etsu PVC B.V.	Production and sales of vinyl chloride monomer and PVC resins
Portugal	4	CIRES, Lda. (Companhia Industrial de Resinas Sintéticas, LDA.)	Production and sales of PVC resins
United Kingdom	5	Shin-Etsu Handotai Europe, Ltd. (S.E.H. Europe)	Production and sales of semiconductor silicon wafers
Germany	6	SETylose GmbH & Co. KG	Production and sales of cellulose derivatives
	7	Shin-Etsu Magnetics Europe GmbH	Sales of rare earths and rare earth magnets

Asia / Oceania

Malaysia	8	S.E.H. Malaysia Sdn. Bhd.	Production, processing and sales of semiconductor silicon wafers
	9	Shin-Etsu (Malaysia) Sdn. Bhd.	Production of rare earth magnets and rare earth magnet assemblies
	9	Shin-Etsu Electronics (Malaysia) Sdn. Bhd.	Production and sales of epoxy molding compounds
	10	S.E.H. (Shah Alam) Sdn. Bhd.	Production and processing of semiconductor silicon wafers
	11	Shin-Etsu Electronics Materials Penang Sdn. Bhd.	Technical support for silicone and epoxy products
Australia	12	Simcoa Operations Pty. Ltd.	Production and sales of silicon metal
Vietnam	13	Shin-Etsu Electronics Materials Vietnam Co., Ltd.	Production and sales of materials for LED
	14	Shin-Etsu Magnetic Materials Vietnam Co., Ltd.	Production of rare earths and rare earth magnets
The Philippines	15	Shin-Etsu Magnetics Philippines, Inc.	Production of rare earth magnets
Singapore	16	Shin-Etsu Singapore Pte. Ltd.	Sales of silicone products
	17	Shin-Etsu Handotai Singapore Pte. Ltd. (S.E.H. Singapore)	Sales of semiconductor silicon wafers
	18	Shin-Etsu Electronics Materials Singapore Pte. Ltd.	Sales of rare earth magnets, silicone and epoxy products
Thailand	19	Shin-Etsu Silicones (Thailand), Ltd.	Production and sales of silicone products
	20	Asia Silicones Monomer Ltd.	Production and sales of silicone monomer
	21	Shin-Etsu Magnetics (Thailand), Ltd.	Production of rare earth magnet assemblies

Korea	22	Shin-Etsu Silicone Korea Co., Ltd.	Production and sales of silicone products
	23	Shin-Etsu Advanced Materials Korea Co., Ltd.	Sales of photoresists and photomask blanks
Taiwan	24	Shin-Etsu Silicone Taiwan Co., Ltd.	Production and sales of silicone products
	25	Shin-Etsu Handotai Taiwan Co., Ltd. (S.E.H. Taiwan)	Production, processing and sales of semiconductor silicon wafers
	26	Shin-Etsu Opto Electronic Co., Ltd.	Production and sales of compound semiconductors
	27	Shin-Etsu Electronics Materials Taiwan Co., Ltd.	Production and sales of photoresists
	28	Zhejiang Shin-Etsu High-Tech Chemical Co., Ltd.	Production and sales of silicone products
China	29	Shin-Etsu Silicone (Nantong) Co., Ltd.	Production and sales of silicone products
	30	Shin-Etsu Silicone International Trading (Shanghai) Co., Ltd.	Sales of silicone products
	31	Shin-Etsu Technology (Suzhou) Co., Ltd.	Sales of rare earth magnets
	32	Shin-Etsu (Changting) Technology Co., Ltd.	Production of alloys for rare earth magnets
	33	Shin-Etsu Silicone International Trading (Shanghai) Co., Ltd. Guangzhou Branch	Sales of silicone products

North America

North America	34	Shintech Inc.	Production and sales of PVC resins
	34	K-Bin, Inc.	Production and sales of PVC compounds
	35	Shin-Etsu Handotai America, Inc. (S.E.H. America)	Production and sales of semiconductor silicon wafers
	36	Shin-Etsu Silicones of America, Inc.	Production and sales of silicone products
	37	Shin-Etsu MicroSi, Inc.	Sales of electronics materials
	38	SETylose USA, Inc.	Production and sales of cellulose derivatives
	39	Shin-Etsu Magnetics, Inc.	Sales of rare earths and rare earth magnets

South America

Brazil	40	Shin-Etsu do Brasil Representação de Produtos Químicos Ltda.	Sales support of silicone products and cellulose derivatives
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Please visit our website for site details.
<https://www.shinetsu.co.jp/en/company/network/>





Company Profile

Corporate Data (As of March 31, 2026)

Company Name	Shin-Etsu Chemical Co., Ltd.
Head Office	4-1, Marunouchi 1-chome, Chiyoda-ku, Tokyo 100-0005, Japan
Date of Establishment	September 16, 1926
Capital	¥119,419 million
Number of Employees	27,342 (Consolidated)

Directors and Audit & Supervisory Board Members (As of June 26, 2026)

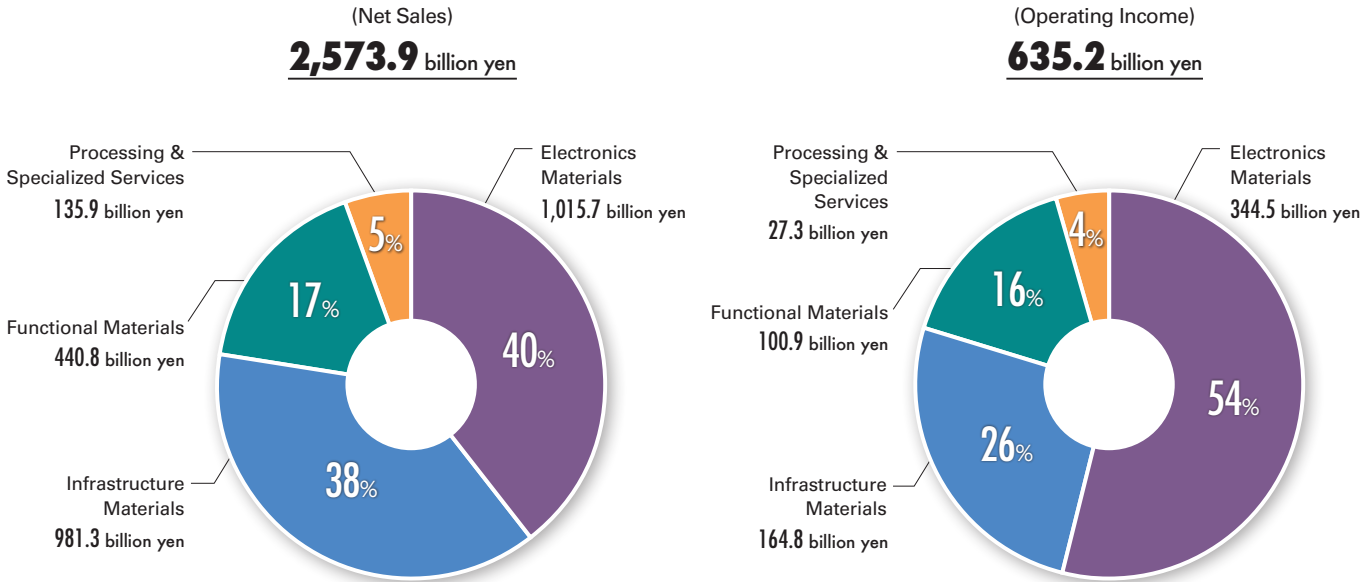
Position	Name	
Representative Director Chairman of the Board Meeting	Fumio Akiya	
Representative Director President	Yasuhiko Saitoh	
Director, Senior Managing Corporate Officer	Susumu Ueno	
Director, Senior Managing Corporate Officer	Masahiko Todoroki	
Director*1	Kuniharu Nakamura Mariko Hasegawa Atsuko Oka	Michael H. McGarry Takashi Hibino
Full-Time Audit & Supervisory Board Member	Hidenori Onezawa	Yoshimitsu Takahashi
Audit & Supervisory Board Member*2	Mitsuko Kagami Shunichi Kuryu	Hiroko Kaneko

*1 Indicates an Outside Director as defined in Item 15, Article 2, of the Corporations Law.
*2 Indicates an Outside Audit & Supervisory Board Member as defined in Item 16, Article 2, of the Corporations Law.

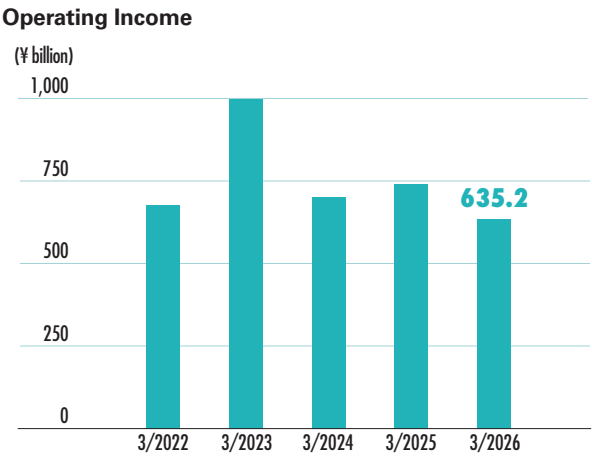
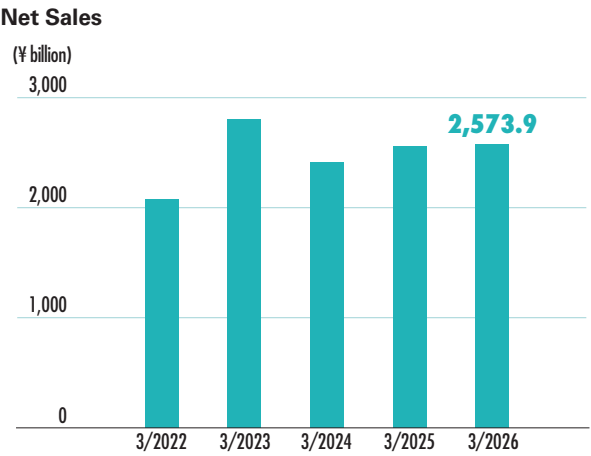
Main Business

Electronics Materials	Semiconductor silicon LED packaging materials	Rare earth magnets Photoresists	Rare earths Photomask blanks	Semiconductor encapsulating materials Synthetic quartz products
Infrastructure Materials	PVC resins	Caustic soda	Methanol	Chloromethanes Polyvinyl Alcohol
Functional Materials	Silicones Liquid fluoroelastomers	Cellulose derivatives Pellicles	Silicon metal Silicon anode material for lithium-ion batteries	Synthetic pheromones Vinyl chloride-vinyl acetate copolymer Optical isolators Faraday rotators
Processing & Specialized Services	Processed plastics	Export of technologies and plants	Export and import of products	Engineering

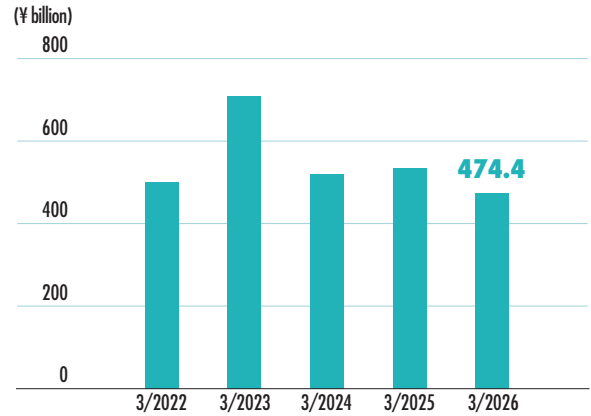
Net Sales and Operating Income by Business (Fiscal year ended March 31, 2026)



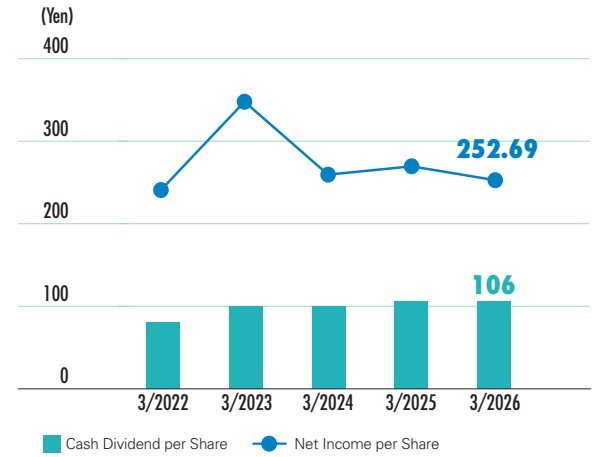
Financial Highlights



Net Income Attributable to Owners of Parent

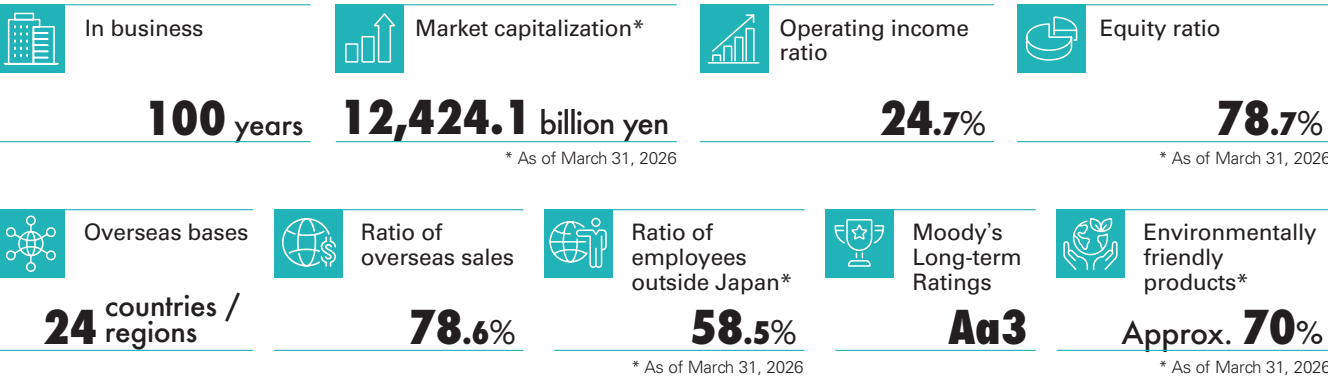


Net Income per Share/Cash Dividend per Share*



(Note) On April 1, 2023, the Company executed a 5-for-1 stock split of its common stock. "Net Income per Share" and "Cash Dividends per Share" are calculated based on the number of shares after the stock split from the fiscal year ended March 31, 2021.

"Shin-Etsu" at a Glance (Fiscal year ended March 31, 2026)





Orchestrating expertise and
innovative mind on materials for better life

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