



Chemistry at Work

ANNUAL REPORT 2018



Business Principle

We contribute to people's living, society and industry through value creation in materials and technologies, while observing all laws and regulations as well as conducting fair corporate activities.

As a company trusted by society, the Group engages in a variety of corporate activities that always place a priority on safety and the environment.

We are also making efforts to contribute to environmental conservation by providing key materials and technologies.

The Group will build upon products, sales capabilities, manufacturing technologies and development capabilities accumulated up to now and continue taking on a wide range of global challenges to contribute to the development of society.

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For more details:

Financial and IR information

▶ <https://www.shinetsu.co.jp/en/ir/>

CSR information

▶ <https://www.shinetsu.co.jp/en/csr/>

FY2017 Performance Highlights

(For the year ended March 31, 2018)

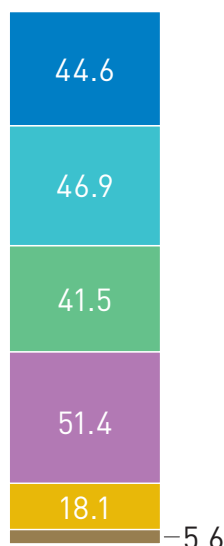
Billions of yen

	FY2015	FY2016	FY2017
Net Sales	1,279.8	1,237.4	1,441.4
Operating Income	208.5	238.6	336.8
Income before Income Taxes and Non-Controlling Interests	220.0	242.1	340.3
Net Income Attributable to Owners of Parent	148.8	175.9	266.2
			Yen
Net Income per Share	349	413	624
Cash Dividend per Share	110	120	140
			%
ROIC ¹	11.4	14.0	18.2
ROE	7.5	8.5	11.9
			Billions of yen

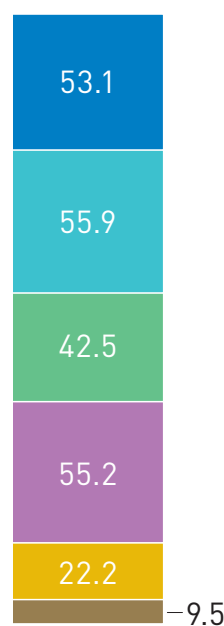
Operating Income by Segment

- PVC/Chlor-Alkali Business
- Semiconductor Silicon Business
- Silicones Business
- Electronics and Functional Materials Business
- Specialty Chemicals Business
- Processing, Trading & Specialized Services Business²

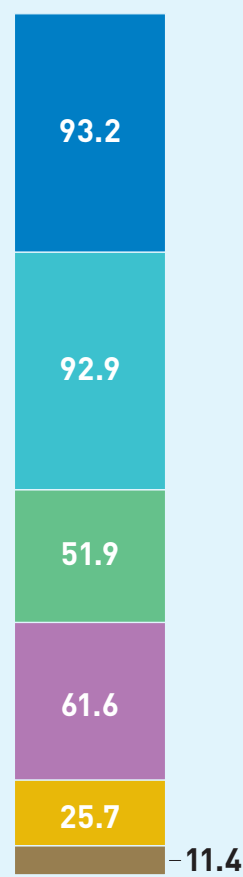
208.5 billion



238.6 billion



336.8 billion



1. ROIC (Return on invested capital): Net operating profit after tax / (Net assets + Interest-bearing liabilities - Cash)

2. The name of this business segment was changed from the previous name of "Diversified Business" to "Processing, Trading & Specialized Services Business" in FY2016.

This change was made in order to make clearer the contents of this business segment. There is no change in the products and services that come under this business segment.

HIGHLIGHTS

High market share

Global rank

Polyvinyl chloride

Semiconductor silicon

Advanced photomask blanks

Pheromone formulations

No. **1**

Global rank

Japan rank

Cellulose

No. **2**

No. **1**

Photoresists

Silicones

No. **4**

No. **1**

ESG evaluation

MSCI



2018 Constituent
MSCI ESG
Leaders Indexes

MSCI



2018 Constituent
MSCI Japan ESG
Select Leaders Index



MS-SRI

Morningstar Socially Responsible Investment Index

As of January 4, 2018

Started overseas business in 1960s

Manufacturing in

20 countries and regions

Sales at

86 overseas bases

Overseas sales ratio

70% or higher

Global employees

20,000 people

Including 8,000 people in Japan

Patents

Patents acquired

2,200 patents

Patents held

20,000 patents

Top 100 Global
Innovator Award*

7 years
in a row

*Clarivate Analytics (head office: Philadelphia), a prominent global information services company in the United States, analyzes the trends in patents and intellectual property using its proprietary patent data to select the most innovative companies and organizations in the world for the "Top 100 Global Innovator 2017" award. We have received this award for seven years in a row since its inception.

Chairman's Message

Striving to Strengthen Existing Businesses and Cultivate New Business to Maximize Corporate Value, Aiming to Build a Profit Structure Enabling the Realization of Stable Growth.

We are pleased to report our results for the fiscal year ended March 2018 to our shareholders.

We are pleased to report our results for the fiscal year ended March 2018 to our shareholders. We achieved record-high profits as well as our eighth consecutive year of income growth by making every effort across our businesses. Shintech Inc., a U.S. subsidiary, significantly contributed to the record-high profits. Additionally, the semiconductor silicon business notably boosted its results by capturing strong demand. The silicones business performed at a high level by focusing on growing sales worldwide.

Our basic dividend policy is to return the results of our businesses appropriately to our shareholders. We decided on a cash dividend of ¥140 per share for the fiscal year ended March 2018, which is a ¥20 increase from the previous year, and our third consecutive year of increased dividend payments.

The Shin-Etsu Group continues to exert every effort to maximize our corporate value, and among these efforts we have placed a top priority on profit growth. Currently, the global economic environment is undergoing dramatic changes and is becoming more and more uncertain. Therefore, to maintain stable growth, we shall continue reinforcing our existing businesses to build a profit structure not overly dependent on any specific sector.

We have focused on our core businesses, "PVC," "semiconductor silicon" and "silicones" as they have been our group's pillars of growth and have

continued to exhibit our strengths in each market. However, in order to achieve even greater growth going forward, we need to strengthen each and every business. To this end, we are committed to what we do best by maintaining our basic principles, including quick decision-making, aggressive investment and the dispersion of risks.

PVC is a general-purpose resin. It is considered very hard to differentiate in terms of profitability. However, Shintech has achieved remarkable profitability in the PVC industry and stable profit growth. This is due to the unceasing efforts made over many years, including innovation in manufacturing equipment, full production and full sales, a streamlined and lean organizational structure, punctual delivery and proactive expansions by capturing growing global demand of PVC. Now Shintech is building a new plant that will produce ethylene, one of the key raw materials of PVC. This will further reinforce Shintech's PVC integrated production process starting from raw materials, and will strengthen its position as the world's largest PVC manufacturer. As this case shows, we continue striving to reinforce our existing businesses to raise the level of profitability still further.

In addition to strengthening our existing businesses, it is also necessary to develop new businesses in order to ensure our future growth. We understand the importance of developing new businesses by effectively utilizing our resources. Therefore, we are developing new products in fields where we can apply our technologies and expertise that have been cultivated through our existing businesses and are focusing on commercializing such products.

Based on these efforts, our targets in all business fields shall be higher, and we aim to be the global leader in our respective businesses. We shall also endeavor to maximize our corporate value by structuring a balanced business portfolio and achieving the continuous growth of the Shin-Etsu Group.

We are grateful to you for your support and understanding of our businesses.




A handwritten signature in black ink, reading "C. Kanagawa". The signature is fluid and cursive.

Chairman
Chihiro Kanagawa

President's Message

Meeting Customer Needs with Sincerity Enabled the Achievement of Record Profit. Going Forward, We Will Continue Contributing to Social Development Through Improvements and Innovation in All Business Activities.



President
Yasuhiko Saitoh



A year ago, I mentioned to you that comparing the earnings for the last fiscal year (FY2016) with those in the fiscal year of April to March 2008, when we had a record profit, the recovery had been slightly over 80% and we were executing and planning on various initiatives to reach and exceed the record earnings. I am very pleased to inform you that in this fiscal year (FY2017) we not only closed the 20% gap but also renewed the record earnings.

In FY2017 we grew the sales turnover by 13.5% over the year before (FY2016) on a local currency basis and 16.5% on a Japanese yen denominated basis. Each of the business segments achieved top-line and bottom-line growth. We worked diligently to meet our customers' increasing needs throughout our operations. In the process, we also worked on pricing for our products so as to have prices more properly reflect value the products provide. The initiatives and efforts certainly contributed to yet another and strong double-digit increase in earnings segmentally and companywide. We increased the operating income by 41.2% to ¥336.8 billion, income before income taxes by 40.5% to ¥340.3 billion and net income by 51.3% to ¥266.2 billion. Since March, 2010, the cumulative growth in earnings was ¥213.3 billion on a pretax basis and ¥182.4 billion on an after tax basis, which equates a compound annual growth rate of 13.1% and 15.5%, respectively.

We succeeded in raising return on invested capital (ROIC) by 4.2 percent point to 18.2% and return on equity (ROE) by 3.4 percent point to 11.9%. We increased the annual dividend by 20 yen to 140 yen for FY2017. In this last May, we retired our treasury stocks in an amount equal to 1% of the outstanding shares.

I refer you to segmental earnings, in comparison with the FY2007.

Operating Income and Composite Rate by Segment

(Billions of yen)

Business Segment	FY2017		FY2007	
PVC/Chlor-Alkali	93.2	27.7%	33.9	11.8%
Semiconductor Silicon	92.9	27.6%	141.3	49.2%
Silicones	51.9	15.4%	37.4	13.0%
Electronics and Functional Materials	61.6	18.3%	40.7	14.2%
Specialty Chemicals	25.7	7.6%	17.4	6.1%
Processing, Trading & Specialized Services	11.4	3.4%	16.6	5.8%
Total	336.8	100.0%	287.1	100.0%

Note: Segment categories were changed in the fiscal year ended March 31, 2011. Amounts in the fiscal year ended March 31, 2008 (FY2007), were reclassified to conform to current segment categories.

We now have more balanced earnings profile than before. We are leveraging what we accomplished in this last fiscal year to raise the earnings. It is not an easy task but we are challenging ourselves to it, as we speak.

President's Message

We have been very busy running all the plants worldwide. We do so with our strong commitment to safety and quality. We have 20,000 motivated and dedicated people working day in day out to deliver our commitments. We invest in our employees through managerial interactions, various training programs and career development opportunities.

While we are vigorously and attentively serving our customers' growing needs for our products, we are being engaged in a growing list of capital projects. We forecast the amount of capital investments will be 250 billion yen in FY2018, about 40% greater than FY2017. The breakdown of the forecast by segment in comparison with last year is as follows:

Capital Investments by Segment

(Billions of yen)

Business Segment	FY2018 (Forecast)	FY2017	Increase
PVC/Chlor-Alkali	89.0	63.6	40% ↑
Semiconductor Silicon	68.0	51.5	32% ↑
Silicones	33.0	29.1	13% ↑
Electronics and Functional Materials	40.0	20.2	2.0 times ↑
Specialty Chemicals	11.0	7.0	57% ↑
Processing, Trading & Specialized Services	9.0	5.0	80% ↑
Total	250.0	176.2	42% ↑

Our technical and engineering expertise is the backbone of our operation. Coupled with our employees' commitment to safety and quality, it enables us to deliver quality products consistently in a timely manner.

Our research and development activities are on the rise. We invested ¥51.7 billion or 3.6% of the yearly sales in the FY2017. Roughly twenty-five thousand products were newly developed and/or qualified and 2,182 patents were granted. More than thirty percent of our revenue comes from patent-advantaged product sales. Our researchers are eager to devise solutions

for our customers. Our R&D efficiency measured by ratio of operating income for recent five year period to R&D expenses for five year period prior to the period is very high among peers.

Our product portfolio and developmental direction are in line with SDGs. We are mindful of SDGs. Our product offerings facilitate the achievement thereof and SDGs will help our business in turn. For instance, our silicone products are widely used in applications which help reduce greenhouse gas effects. To give you another example, we have been working on developing materials for EV batteries. Such initiatives will reduce consumption of fossil fuels, which will result in better availability and affordability of raw materials for our operations.

We commit to apply, improve and innovate what we have throughout our operation to help advance our society. Our products are building blocks for industries, societies and human life. Through our products, we continue to strive to present solutions and ideas so that we can make difference in everyone's life.

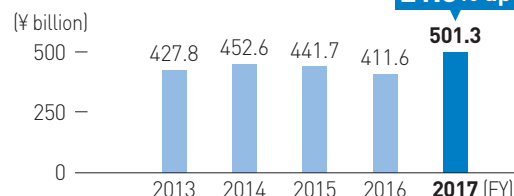
In order for this great company to continue to do what it has been able to do for our customers, our shareholders and communities we are in, the company will have to grow. We are working on various initiatives to broaden our business portfolio and expand our footprints. We will remain focused on our customers and their needs to be relevant to them, will remain committed to governance to be relevant to our shareholders and will remain responsible to be relevant to our communities.

I sincerely thank our shareholders for your confidence and support, our customers for their business and partnership and our Shin-Etsu team for their commitment to our high standards.

Business at a Glance

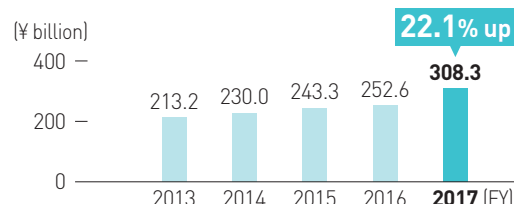
Net Sales

PVC/Chlor-Alkali Business



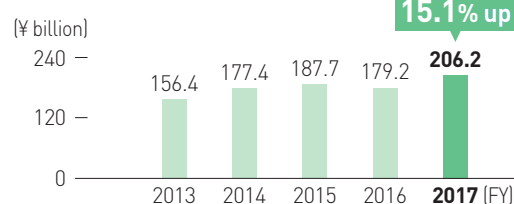
In the U.S. Shintech continued at full operation, while at the same time, in addition to PVC, the supply and demand relationship with respect to caustic soda improved, resulting in significant growth. Bases in Japan and Europe also achieved favorable business results. Thorough sales efforts resulted in increased sales, both in the regions surrounding our production bases and globally, contributing to growth in profit.

Semiconductor Silicon Business



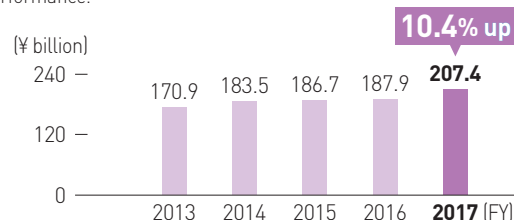
Driven by robust demand for semiconductor devices, 300mm and other diameter silicon wafers experienced strong demand, while the implementation of product price adjustments substantially enhanced segment performance.

Silicones Business



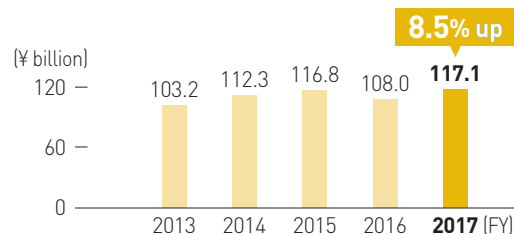
Demand increased for all product lines and applications, and in addition to functional products, sales of general-purpose products also expanded worldwide, which increased segment performance.

Electronics and Functional Materials Business



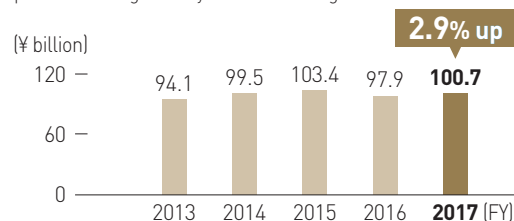
With regard to rare earth magnets, shipments of products for automotive applications, including hybrid cars and industrial equipment, remained strong as sales expanded. With regard to photoresist products, KrF resists, ArF resists and trilayer materials all performed favorably as photomask blanks also expanded. Optical fiber preform sales were increased by taking advantage of a rise in global demand as well as by contributions from the production at our new joint-venture company in China starting in the second half of FY 2018. Shipments of materials for LED packaging were also firm.

Specialty Chemicals Business



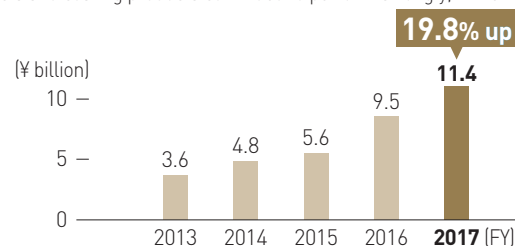
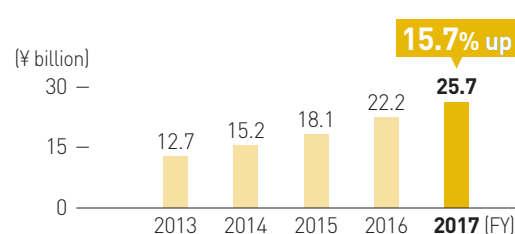
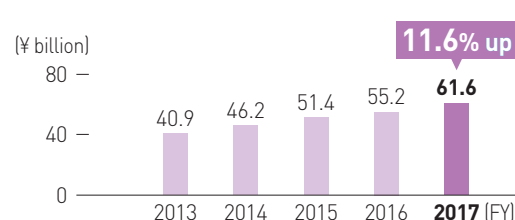
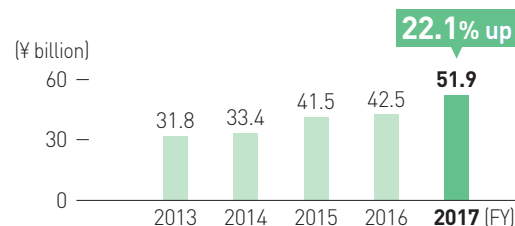
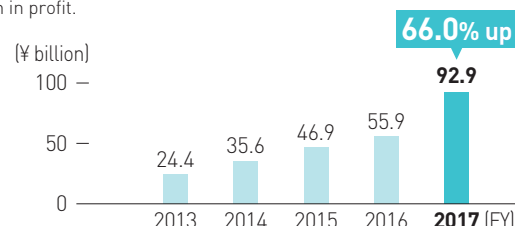
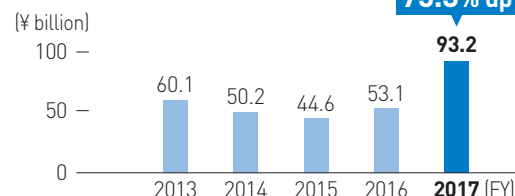
With regard to cellulose derivatives, pharmaceutical-use products, construction material products and coating products continued to perform strongly, while pheromone, POVAL and other products also generally achieved strong results.

Processing, Trading & Specialized Services Business



Shin-Etsu Polymer Co., Ltd., input devices for automobiles and semiconductor wafer-related cases continued to perform well.

Operating Income



PVC/Chlor-Alkali Business

Business Overview

Polyvinyl chloride resins (PVC) are general-purpose resins used in a wide range of applications, from everyday products to all kinds of industrial materials. This is one of the Group's core businesses. The Group became one of the first Japanese chemical manufacturers to establish a polyvinyl chloride manufacturing base overseas. Shintech in the U.S. from the time it began operations in 1974 with yearly production of 100,000 tons of PVC has carried out numerous expansions, and today it has expanded its annual PVC production capacity to 2.95 million tons. The Shin-Etsu Group, the world's largest maker of PVC, has PVC manufacturing plants in the U.S., Europe and Japan with annual production of 4.15 million tons, and is reliably supplying this superior material throughout the world.



Contributing to the Achievement of Sustainable Development Goals (SDGs) Through Product Supply

Approximately 60% of the raw materials used in PVC are salts that are practically inexhaustible resource. Compared to other general-purpose resins, the merits of PVC include a low dependence on petroleum resources, placing a relatively small burden on the environment. The process of manufacturing PVC from raw materials uses only 60% of the energy required to make other general-purpose resins. Highly durable and easy to recycle, PVC is used for a wide range of social infrastructure materials, including vinyl windows, water and sewerage pipes, construction and civil engineering.

PVC



Sodium hypochlorite



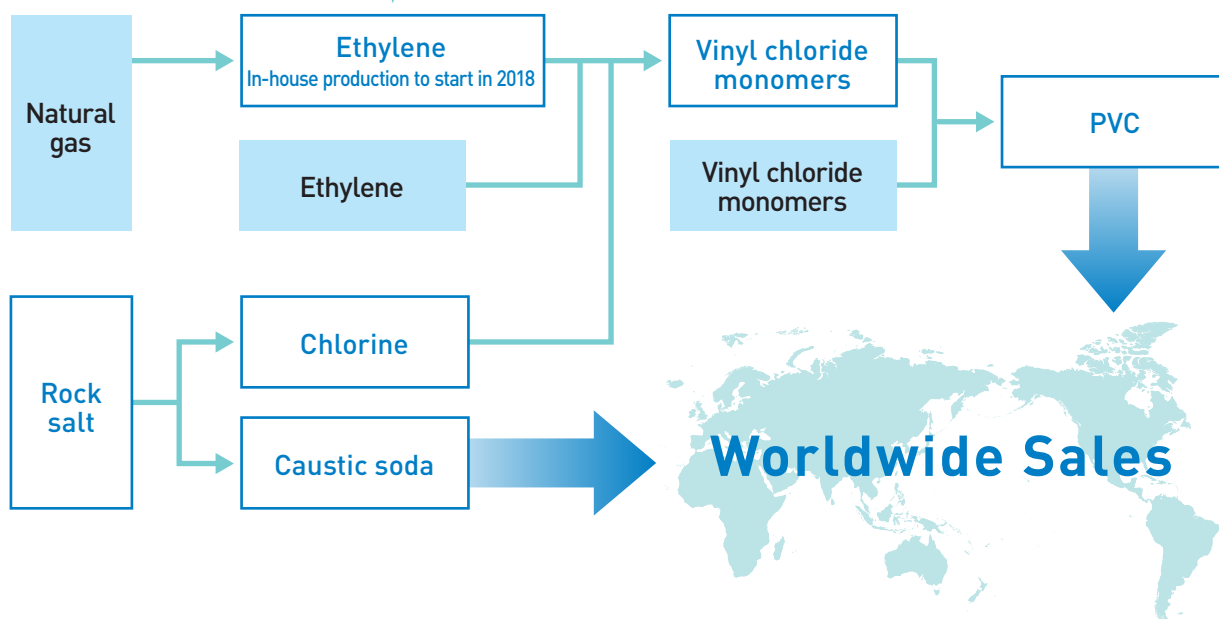
PVC/Chlor-Alkali Business

Shintech's Integrated Production Facilities

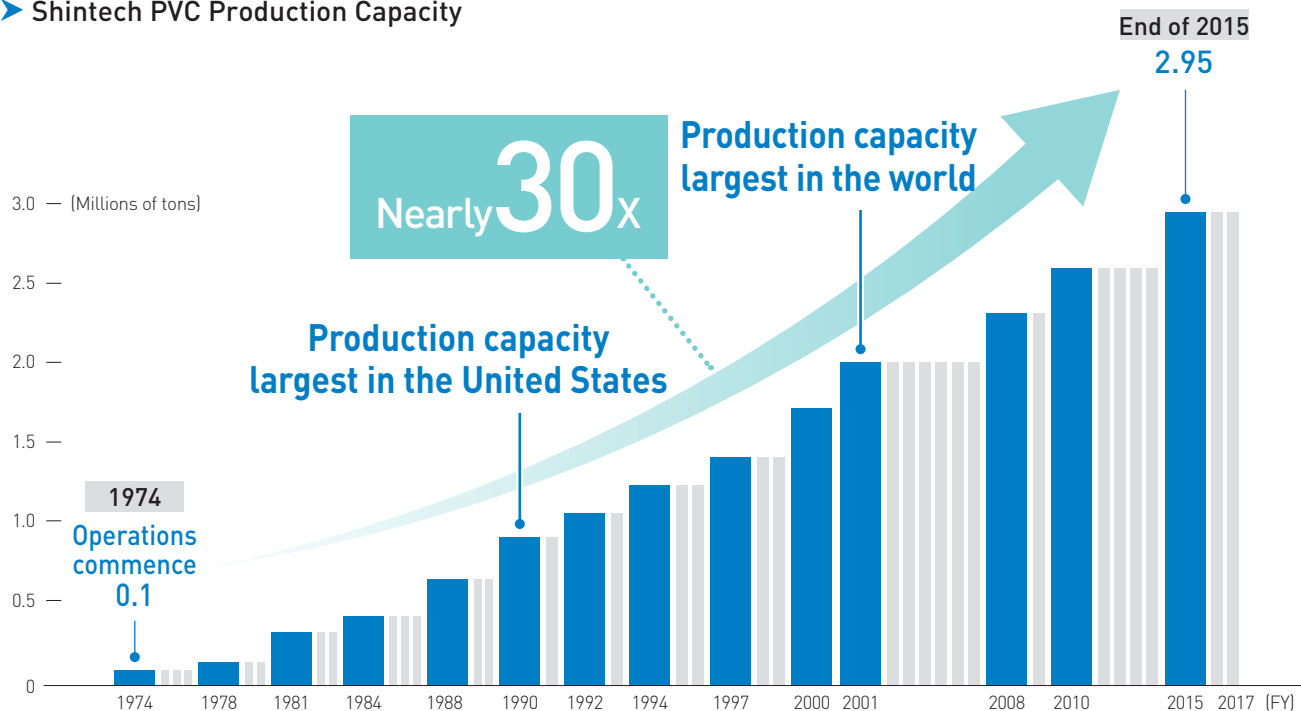
Integrated Production to Begin with Raw Materials

In-House Production
 External Procurement

Focus As with vinyl chloride monomers, an in-house production system will be established for ethylene.



Shintech PVC Production Capacity



Application

PVC

PVC pipes

PVC water and sewerage pipes can be used for more than 50 years without requiring replacement, contributing to a long working life for this infrastructure.



Plastic greenhouses for agriculture

PVC is easy to recycle and thus helps save resources. In Japan, more than 50% of the plastic used for agricultural greenhouses is recycled.



Electric wire coating material

PVC, which is superior in insulation properties, durability and pliability, and is difficult to damage, is used as a sheathing material for electric wires.



Vinyl windows

This material is an excellent insulator that can reduce the amount of heat lost through windows by 71%, contributing to reductions in energy consumption as well.

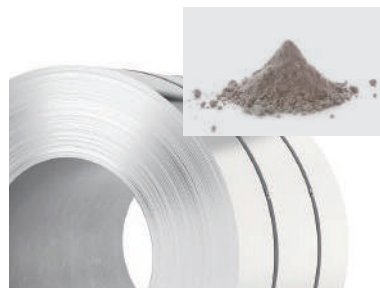


Siding materials

These decorative materials made from PVC are lightweight and easy to use for construction. They also provide excellent resistance to weather, shocks, rust and deterioration.



Caustic Soda



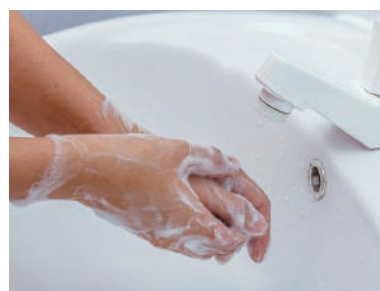
Alumina

Aluminum hydroxide, made by dissolving bauxite with caustic soda, is a raw material for alumina (aluminum oxide).



Paper and pulp

Caustic soda is used for digesting and bleaching wood chips in the dissolved pulp manufacturing process.



Soaps and detergents

Caustic soda reacts with fats and oils to become a raw material for soap or a raw material for synthetic detergents.



Super-absorbent polymers

These absorption agents are an essential element of paper diapers. Caustic soda is one of the raw materials used to manufacture these polymers.

Sodium Hypochlorite



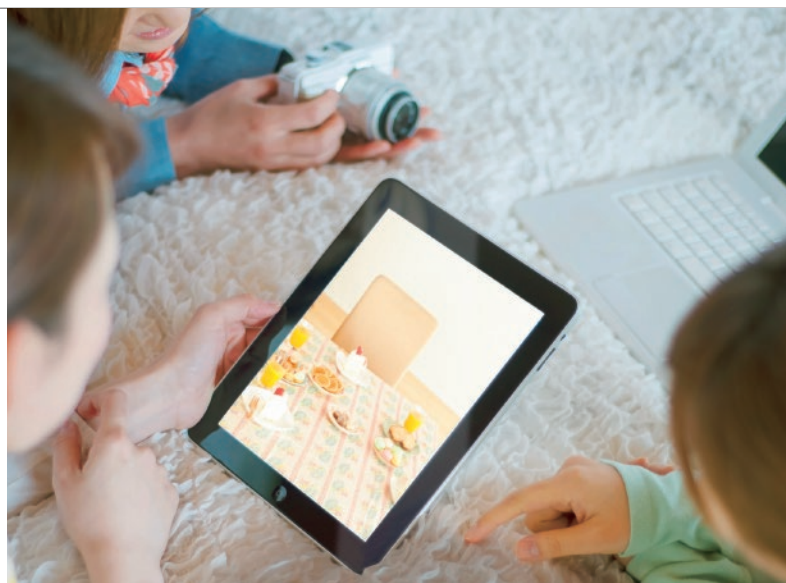
Sodium hypochlorite

As a chemical for protecting the safety of foodstuffs and tap water, this substance contributes to a safe and comfortable lifestyle.

Semiconductor Silicon Business

Business Overview

As the world's leading company providing silicon wafers for integrated circuits, the Shin-Etsu Group continues to be in the technological forefront with regard to cutting-edge large-diameter and super-flat wafers. We have succeeded ahead of others in the mass production of 300mm wafers and silicon-on-insulator (SOI) wafers that realize high speed and low power consumption, and we are stably supplying these superior products. In addition to our company's high-precision single-crystal technology and high-level processing technology, our high-quality epitaxial growth technology for cutting-edge image sensor devices and our systems for product quality control and evaluation analysis are highly valued by our customers around the world. By further developing our world's No.1 technology, we will continue to provide a stable supply of the silicon wafers that support the development and manufacture of semiconductor devices.



Contributing to the Achievement of Sustainable Development Goals (SDGs) Through Product Supply

As a basic material supporting our modern high-speed information society, silicon wafers contribute to society by reducing the size and weight of electronic equipment, reducing power consumption, improving automobile fuel efficiency, driving support systems and other safety controls and contributing to advancements in medical equipment. Furthermore, they are useful for the stable supply of electric power mainly to electronic equipment, as power semiconductors can minimize power consumption and accommodate

high voltage and high currents. Group products are also used to accurately regulate motor drive controls from high to low speeds and as power-saving transistors enabling the efficient transfer of power from generators to transmission lines.



Application



Various types of silicon wafers

Electrical components for digital equipment and automotive parts

Used as a substrate material for semiconductor devices in electronic devices such as personal computers, smartphones and televisions, as well as automobiles.

Compound semiconductor products

LED components

Used in a wide range of applications including outdoor displays, traffic lights, in-vehicle stop lamps and sensor light sources.



Application

Communication/Computers



Smartphones



Tablet-type devices



Personal computers



Data center

Automobile



Hybrid cars



Electric vehicles



Car navigation systems



Electronic toll collection system

Consumer



Televisions



Game devices



Smart watches



Digital cameras



Drum-type washing machines



Energy-saving air conditioners



Rice cookers



Microwave ovens

Industry



Industry robots

Other



Bullet trains



Bank ATM



Vending machines

Silicones Business

Business Overview

Since becoming the first Company to commercialize silicones in Japan in 1953, the Group has captured more than a 50% share in Japan through strong technological capabilities and detailed support for market needs. Silicone is a highly functional material that has both organic and inorganic characteristics and has many superior distinguishing features. The Shin-Etsu Group currently provides more than 5,000 silicone products to a wide range of industries from electronics and electric to automobiles, construction, cosmetics, chemicals, health care and food.



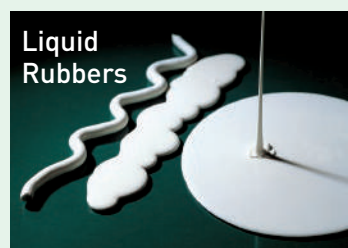
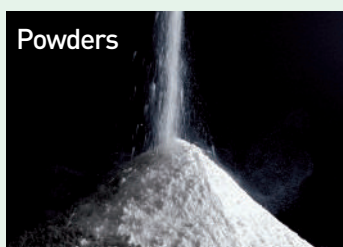
Contributing to the Achievement of Sustainable Development Goals (SDGs) Through Product Supply

Using silicones has the effect of reducing greenhouse gas emissions. It is estimated that the effect is nine times as large as the emission volume of silicone production and waste disposal, according to a study commissioned by the Global Silicones Council in 2012. Among these, the use of silicones for automobile, construction and solar cell applications account for a large proportion of greenhouse gas emission reductions from the silicone product cycle.

This constitutes a substantial contribution toward the realization of an environmentally friendly and sustainable society.



► Silicone Representative Configurations



► Numerous Characteristics of Silicone

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

Application

Cosmetics

Improving the usability and functionality of various cosmetics to meet the diverse needs of the marketplace.



Solar cells

Used as modifying agents for the resins in the encapsulating material for solar cells, thus helping to improve their functionality.



Bullet trains

Used as an insulating oil material for the transformers of bullet trains and contribute to the safe operation of these trains.



Electronic devices

Thermal interface materials for electronic devices widely used in such areas as electronic product.



Contact lenses

Essential as a material for contact lenses because of its oxygen permeability characteristics.



Herbarium

Silicone oil is clear, colorless and unaffected by temperature changes. For this reason, it improves the quality of herbarium specimens.



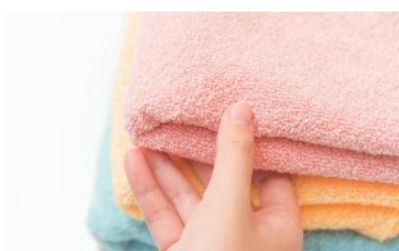
Nursery items

Durable and safe with no rubber-specific odor. Used in various products for babies such as the nipples of baby bottles and pacifiers.



Textile treatments

Add various advantageous properties such as softening, water repellency, etc.



Tires

Silicone-enhanced tires can lower rolling resistance and help improve fuel efficiency.



Ship-bottom paints

Contributes to the environmental conservation of the seas and the improvement of fuel efficiency by preventing marine organism adhesion.



Electronics and Functional Materials Business

Business Overview

The Shin-Etsu Group's rare earth magnets are used in a wide range of applications including automobile motors, industrial robots, home appliances and hard disk drives. We also develop and provide photoresists, photomask blanks, encapsulation materials and pellicles that are used in the semiconductor manufacturing process. We have also successfully launched the world's first mass production of synthetic quartz products, used as a substrate for photomasks. Furthermore, we successfully developed liquid fluoroelastomers.*

* Employs silicone addition reaction technology and hardens into a flexible solid synthetic rubber upon heating. Offers outstanding functionality and processability, and far more resistance to cold, oil, solvents and chemicals than conventional products. This material is expected to be applied in a wide range of fields, from automobiles and aircraft to electronic equipment and optical applications.



At the "24 Hours of Le Mans" traditional automotive race held in 2018, two Toyota hybrid cars achieved a dazzling 1st and 2nd place finish. Our rare earth magnets were used in the drive motors installed at both the front and rear of both of these cars.

Contributing to the Achievement of Sustainable Development Goals (SDGs) Through Product Supply



Various types of rare earth magnets in shapes such as squares, rings and cylinders

Rare earth magnets have about 10 times the magnetic force of conventional ferrite magnets. Even small rare earth magnets generate a powerful magnetic field. They are used in hybrid and electric cars to realize smaller size and weight as well as increased power regeneration. Rare earth magnets are also used in compressors for energy-saving air conditioners. They raise electric power efficiency in a variety of products and contribute to the reduction of greenhouse gas emissions.

Rare earth magnets



LED, semiconductor device encapsulation materials



Photoresists, Photomask blanks



Synthetic quartz



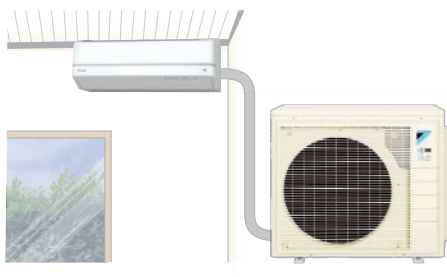
Oxide single crystal



Anode materials of lithium-ion batteries



Major Products and Application



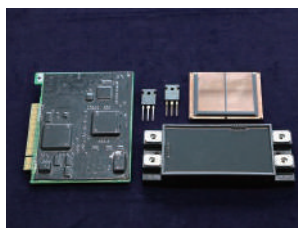
Rare Earth Magnets

Rare earth magnets are used in such products as automobile motors, compressor motors for air conditioners, industry robots and motors for the hard disk drives of digital home appliances, thus helping to contribute to saving energy. Shin-Etsu Chemical is engaged in the manufacture of these magnets from separation and refinement to processing of the rare earth raw materials. Furthermore, Shin-Etsu is reliably supplying high-quality rare earth magnets with highly advanced features by means of the development of its own grain boundary diffusion method, which reduces the amount of heavy rare earth used, while keeping the high performance level of the magnets.



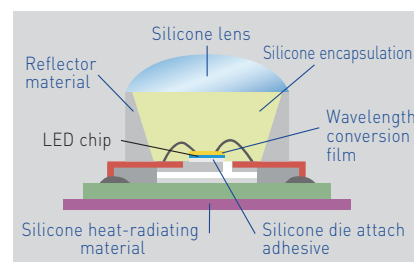
Epoxy Molding Compounds

Based on its high technologies that were cultivated through the development of various kinds of silicones, Shin-Etsu has developed encapsulating materials for applications in semiconductor devices. In recent years, epoxy molding compounds are being usefully applied not only in general-use semiconductors but also as a highly reliable encapsulating material in power modules for automobiles and various sensors.



Coating Resin and Die Attach Adhesive for LEDs

Shin-Etsu's various silicone encapsulation materials for LED lights feature such superior characteristics as being heat-resistant, high transparency and preventing a decline in brightness for a long period of time.



LED Structure (Blue characters are products provided by Shin-Etsu)



Reflector for LEDs

Shin-Etsu's reflector material for LEDs greatly improves brightness, and such reflectors are superior in heat resistance and weatherability, thus contributing to the long operating life of LED lighting. With Shin-Etsu's high-level processing technologies, our reflector material for LEDs makes it possible to freely design packaging shapes.



Wavelength Conversion Film

Wavelength conversion films are adhesive film materials that mix silicones with a fluorescent substance. By attaching it to the LED chip surface, the blue color light that LEDs emit can easily change to various colored lights, including white light, and can make a uniform color. In addition, the films are superior in heat-resistant and light-stability properties and it is possible to use them for long-term usage applications.



Optical Fiber Coatings

Extremely fine optical fibers have a cross-sectional diameter of only 125 microns. Optical fiber coatings provide a protective coating for these fine optical fibers to protect the surface while providing greater strength.

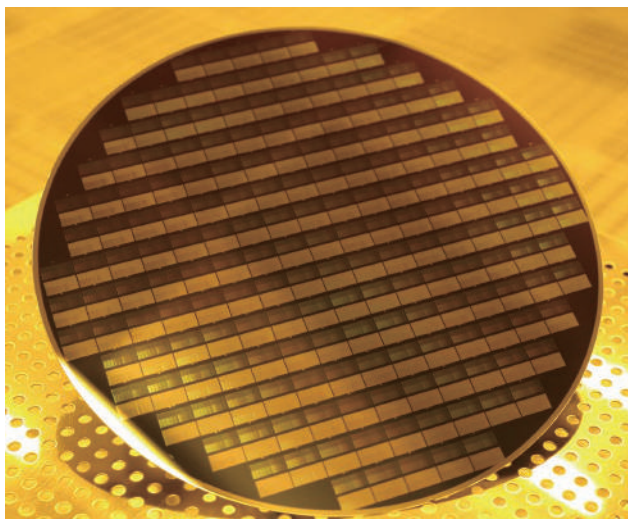


High-Purity Silane for Semiconductors

We provide high-purity silane that is used in such products as insulating film for semiconductors and epitaxial wafers. We meet the various needs of our global customers by providing a stable supply and a high level of product purity, which are supported by strict product quality and container control in addition to our own high-level refining technology.

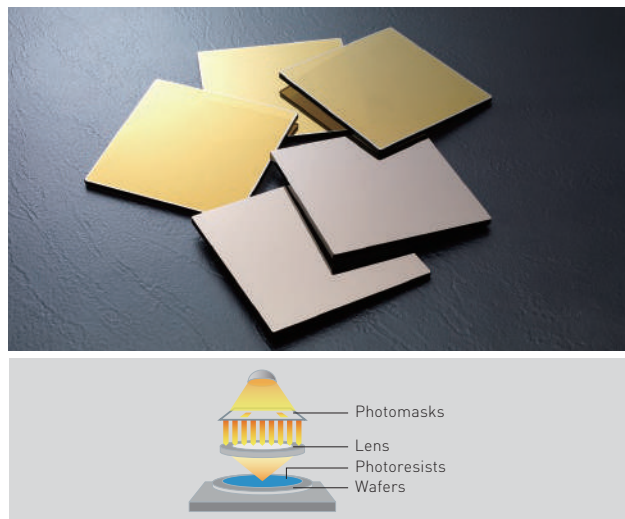
Electronics and Functional Materials Business

Main Products and Applications



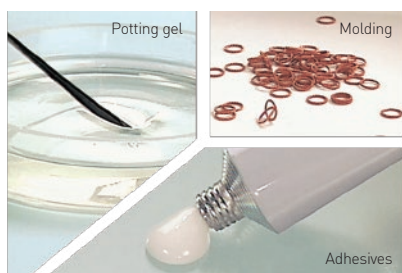
Photoresists

Shin-Etsu Chemical, by utilizing its strengths as a materials maker, carries out integrated manufacturing from raw materials' polymer synthesis to compounding. We make photoresists (KrF, ArF) for excimer lasers that are used as photosensitive material for etching on semiconductor circuits, and our thick film I-Line photoresists are used widely for thin-film magnetic heads and MEMS applications. Furthermore, for cutting-edge miniaturization processes we have lineups of multilayer material products. These are used as essential key materials in lithography processes for semiconductor manufacturing, and they help to enable the high integration, high speed and high functions of semiconductors. To steadily capture the growth of the photoresist market, construction of a new plant is under way in Taiwan, one of the main areas of demand. In combination with our existing Naoetsu Plant, we will have two production bases. As a result, we will be able to disperse business risk and strengthen our business foundation.



Photomask Blanks

Photomask blanks are the base material of photomasks that are used as the patterning templates when etching circuits on silicon wafers during the semiconductor lithography process. The light-shielding layer is formed on the surface of photomask blanks for which the substrate is synthetic quartz. Instead of the chromium (Cr) used for the conventional light-shielding layer of photomask blanks, Shin-Etsu has developed new manufacturing processes that use cutting-edge molybdenum-silicon binary (OMOG: Opaque MoSi on Glass) for the light-shielding layer. Shin-Etsu has established the mass-production technology of these advanced photomask blanks with its superior etching characteristics. Shin-Etsu's photomask blanks are highly evaluated by device makers as an essential material for cutting-edge semiconductor manufacturing processes. In addition, Shin-Etsu supplies attenuated phase-shift photomask blanks for ArF and KrF, which respond to customers' needs.



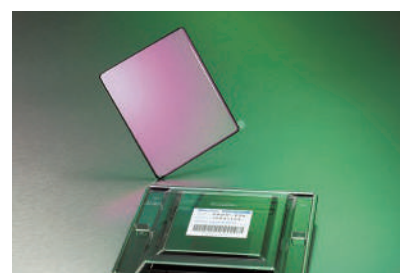
Liquid Fluoroelastomers SHIN-ETSU SIFEL®

Shin-Etsu Chemical was the first company in the world to succeed in developing the liquid fluoroelastomers SHIN-ETSU SIFEL®, which by using silicone addition-reaction technology can be made into a form that hardens into a flexible, solid synthetic rubber upon heating. SHIN-ETSU SIFEL® possesses excellent process ability and such superior properties as resistance to oils, solvents and chemicals together with good durability against heat and stability at cold temperatures. SHIN-ETSU SIFEL® contributes to the improvement of products in a wide range of fields, including the automotive, aircraft, electronics, office equipment and petrochemical industries.



Fluorinated Anti-Smudge Coating

Shin-Etsu's fluorinated anti-smudge coating is applied to the surface of eyeglasses and cover glasses/protective films for smartphones. A nano-scale fluorinated thin layer formed on the surface repels water and oil, and stains such as fingerprints can be wiped off easily. Due to its low dynamic friction, fluorinated coating contributes to improving the operability of smartphones. In addition, Shin-Etsu supplies a fluorinated anti-smudge additive that can obtain excellent surface properties by adding to hard coatings.



Pellicles

Shin-Etsu Chemical supplies high-quality pellicles for ArF and KrF excimer laser lithography. Shin-Etsu pellicles support customers' semiconductor device production with their excellent performance, such as high light resistance, good transmission uniformity and low outgassing. In addition, Shin-Etsu has succeeded in the development of super-large-size pellicles for the production of liquid crystal display (LCD) panels.



Preform for optical fiber



Optical fiber made of preform



Synthetic quartz photomask substrates for LSI and FPD lithography



Large photomask substrate for FPD

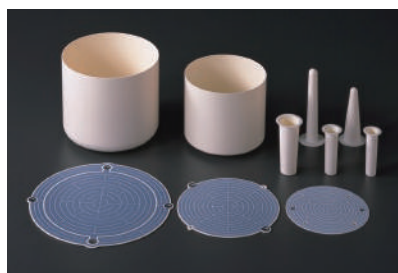
Synthetic Quartz

Synthetic quartz, the key raw material of optical fiber, has the characteristic of superior light transmission. In an ordinary glass sheet, light attenuates in about 2 meters. However, in the case of synthetic quartz, light can reach a distance of about 100 km. The Shin-Etsu Group was the first company in the world to mass-produce synthetic quartz that is higher in purity than natural quartz. So it is used as a preform for optical fiber, a photomask substrate for semiconductor lithography and a stepper lens for semiconductor lithography. In addition, it is used as a large-scale photomask substrate for flat-panel display (FPD) lithography. It is supporting the development of the advanced information society.



Oxide Single Crystals (Lithium Tantalite: LT)

Lithium tantalite (LT) is used in mobile communication devices as SAW devices that screen electromagnetic waves and pick up only specific frequencies. Oxide single crystals are currently contributing to the popularization of mobile phones and smartphones and serve an important role in the modern information society.



Pyrolytic Boron Nitride (PBN)

PBN is a high-purity ceramic with excellent chemical resistance and strength at high temperatures. Shin-Etsu Chemical was the first company to successfully produce PBN domestically. In addition to making use of PBN's excellent characteristics in crucibles for compound semiconductors and molecular-beam epitaxy, PBN's application fields are expanding to such areas as MOCVD systems and organic EL systems.



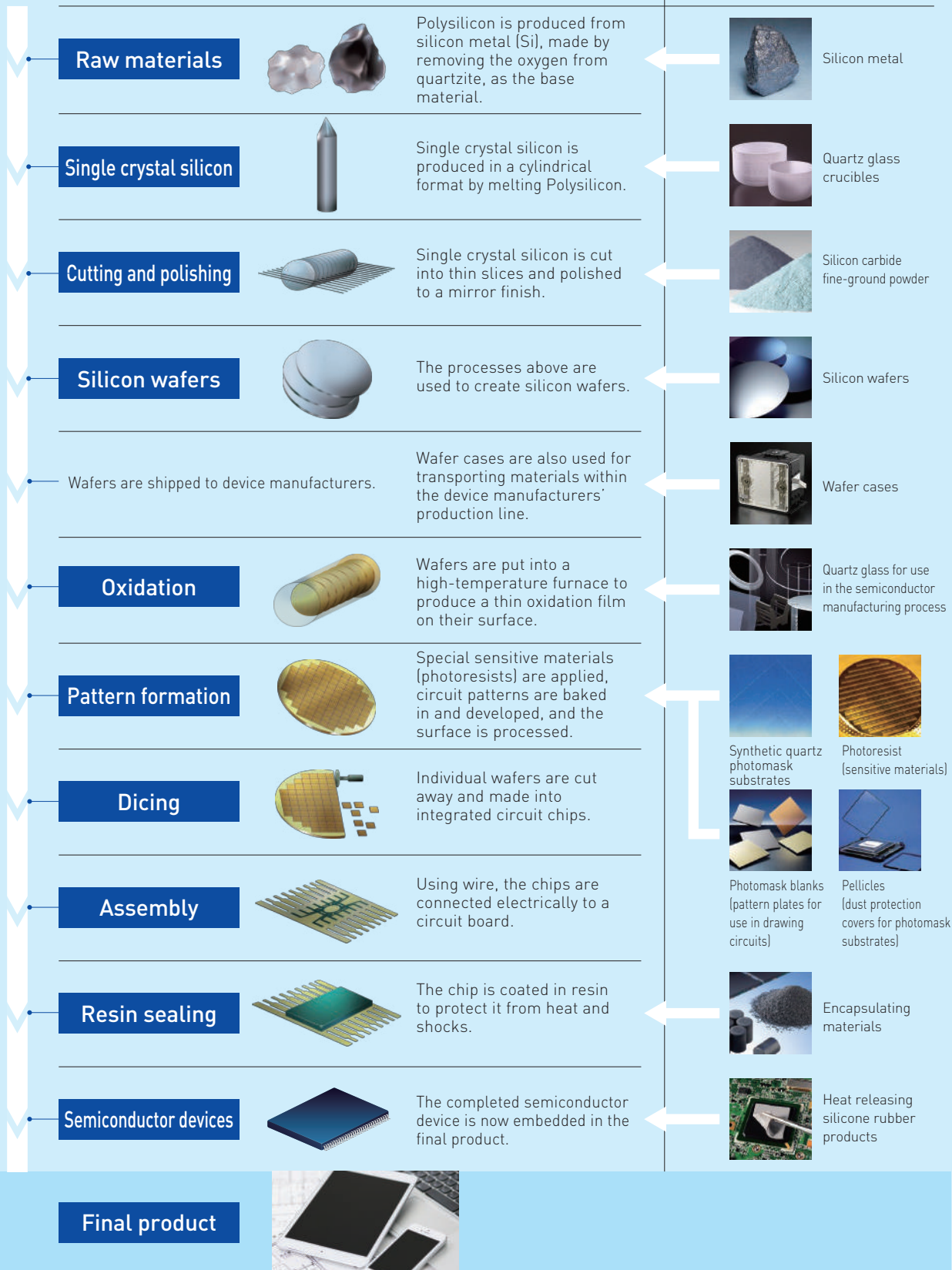
Anode Material of Lithium Ion Batteries

SiO is a greatly promising material as an anode material of next-generation lithium-ion batteries that have high capacity and excellent power properties. Shin-Etsu has succeeded in putting electrical conductivity on SiO particles via our own proprietary method. Shin-Etsu's anode material is highly evaluated by our customers.

Semiconductor Manufacturing Process and Products of the Shin-Etsu Group

From raw materials to completed semiconductor devices

Products supplied by Shin-Etsu group



Specialty Chemicals Business

Business Overview

Our main specialty chemical products are cellulose derivatives, environmentally friendly materials made from natural polymer cellulose. Cellulose derivatives have several versatile applications in a variety of fields, ranging from pharmaceuticals and foods to construction materials, engineering projects, coatings, ceramics, paper processing, cosmetics and toiletries. The Shin-Etsu Group began manufacturing



cellulose derivatives in 1962. Currently, we have the largest share in Japan and meet global needs as the world's foremost manufacturer with bases in Japan, Europe and the United States. In addition, we provide synthetic pheromones used for agricultural pest control and functional resin POVAL. We also provide a variety of other products, including silicon metal, a main ingredient in silicones and synthetic quartz.

Contributing to the Achievement of SDGs Through Product Supply



Cellulose derivatives



Artificial pheromones



Industrial cellulose derivatives reduce the separation of concrete in water, enabling concrete to be poured without polluting water. This contributes to environmental preservation by preventing water pollution. Synthetic pheromones are very safe, environmentally friendly and eliminate agricultural pests. They are useful for making food safer through the reduction of insecticides and agricultural chemicals sprayed in fields.

Major Products and Application



Cellulose derivatives

Provide a variety of functions such as controlling the location in the body where drugs dissolve and slowing the rate at which they dissolve.



Used as a binding agent for the molding process to manufacture exhaust gas purifiers for automobiles, technology that contributes to the prevention of global warming.



Synthetic pheromones

Synthetic pheromones disturb the communication of male and female insects and thus obstruct their mating process.



Aroma chemical

We manufacture leaf alcohol by breaking down natural fragrance compounds. These fragrances are used in a wide variety of products such as aroma products, cosmetics and foodstuffs.



Silicon metal

Silicon metal is a key raw material of silicone, semiconductor silicon, synthetic quartz and solar cells. Simcoa Operations, our group company, manufactures silicon metal in Australia.



Polyvinyl alcohol (POVAL)

JAPAN VAM & POVAL CO., LTD., manufactures and sells this material. Due to its properties as a water-soluble synthetic resin, it is used in a wide range of applications such as adhesives, various types of films, fiber treatment agents, paper processing agents, and additives for cosmetics and pharmaceuticals.



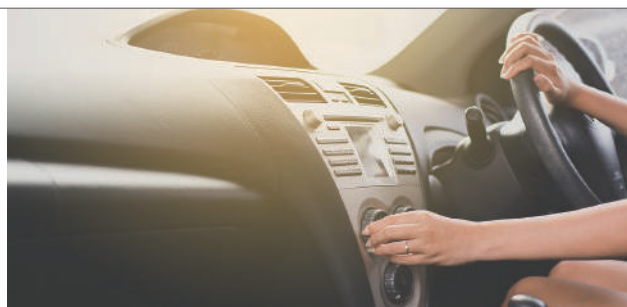
SOLBIN

This is a denatured resin supplied by Nissin Chemical Industry Co., Ltd., with excellent adhesion and solubility. Used in products such as paints, inks and adhesives.

Processing, Trading & Specialized Services Business

Business Overview

Shin-Etsu Polymer Co., Ltd., develops and supplies highly operable and functional products making use of materials processing technologies. Shin-Etsu Engineering Co., Ltd., which is involved in the design and construction of the Group's product manufacturing plants, has a strong reputation for engineering with customers outside the Group.



Contributing to the Achievement of Sustainable Development Goals (SDGs) Through Product Supply

The construction material (corrugated rigid polycarbonate sheets) manufactured by Shin-Etsu Polymer Co., Ltd. is used as an exterior roofing material. Using more than 50% reclaimed raw materials, this product contributes to recycling.



Major Products and Application

Input devices

Providing input devices such as automobile dashboard audio and air conditioners.



Shupua

Glasses made of silicone rubber.



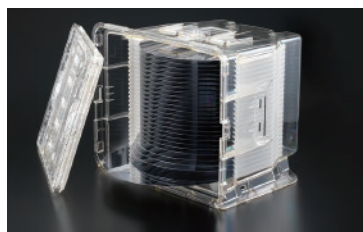
Engineering

The engineering business of Shin-Etsu Engineering Co., Ltd., is involved in the design, construction and maintenance of various Shin-Etsu Group product manufacturing plants.



Silicone catheters

Making use of the silicone processing technology we have developed, we provide catheters that offer important advances in their application.



Wafer cases

Providing containers used for transportation from silicon wafer makers to device makers and silicon wafer transport containers within the device manufacturing process.



Various rollers for OA equipment

Providing semi-conductive developing rollers and fuser rollers making use of proprietary processing technologies including conductivity, foaming and compositing using silicone rubber.



Vacuum superposition equipment

Shin-Etsu Engineering Co., Ltd., carries out the design and manufacturing of the alignment machines for LED panels that support large-scale liquid crystal panel production.

R&D and Quality Control

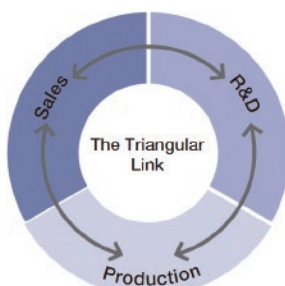
Research and Development

Without new challenges, a company cannot grow. Shin-Etsu Chemical values the power of R&D as an important asset, carving a path into the future. Then, based on questions such as “What do our customers need now?” and “What is the market looking for?” we tackle research and development to fulfill the demands of the times and actively undertake further research to raise the quality and production efficiency of our previously developed products.

The Triangular Link: Sales, R&D and Production

Shin-Etsu Chemical’s R&D is managed in a way that closely suits our customers’ needs. What makes this possible is Shin-Etsu’s R&D system, which integrates Sales, R&D and Production.

Market demands generated by our business activities are relayed to our development divisions to establish research themes. The development divisions follow these themes as they progress with development, while at the same time on the basis of close ties with the manufacturing divisions, they conduct practical R&D aimed at utilizing our plants and facilities for mass production. To do this efficiently, Shin-Etsu Chemical has established R&D centers at each plant.



Materials Development with Originality, Creating New Value

In conducting R&D, we focus on themes aimed at the creation of new products with originality. These themes attempt, first, to meet the next generation of needs and, second, to show originality in doing something that no one else has attempted. Some of these carefully selected themes have led to the invention of new materials that we produced for the first time in the world, solving problems in various industrial fields by providing materials with distinct properties and excellent functionality, and leading to epoch-making breakthroughs. Wherever there are needs, we will continue taking on the challenge of developing new materials.

Quality Control

At Shin-Etsu Chemical, as a materials manufacturer, we consider the stable supply of high-quality products to be the most important factor in our quality control framework. We supply a large number of items used for applications such as raw materials for industrial products and materials targeted to use in the latest cutting-edge products. In recent years, we are getting an increasing number of requests from our customers for ultra-high purity materials and strict cleanliness requirements. To meet all of our customers’ needs for each of our products, Shin-Etsu Chemical has introduced the latest state-of-the-art analysis and evaluation equipment, and we are developing proprietary quality control technology in-house. At the same time, we are reviewing our manufacturing processes and making efforts to minimize variation within the steps involved in each of our products.

We are creating a management system for the simultaneous and effective management of both production and product quality, and are continually working to ensure we can always provide a stable supply of high-quality products to our customers as the ultimate business partner.

The Deming Prize is Just One Example of Shin-Etsu Chemical’s Commitment to Quality Control.

Shin-Etsu Chemical has actively carried out quality control (QC) since 1950, a relatively early start in comparison with its peers, working to establish proprietary methods for ensuring consistent quality. Just three years later in 1953, the company was awarded the Deming Prize. The statistical quality control achieved at this time was praised by Dr. Deming himself, who called it “the highest level in the world.” Since then, Shin-Etsu Chemical has been working to develop technology and systems for maintaining and improving product quality. The ISO 9000 series of international standards for quality management systems was established by the International Standards Organization (ISO) in 1987, and the Shin-Etsu Chemical Group has achieved these certifications at the majority of its production facilities. In addition, we are focused not only on discharge prevention (avoiding the shipment of defective products) but also occurrence prevention (avoiding the manufacturing of defective products), and carry out regular quality surveillance from both of these perspectives at all of our factories. Through our continuing efforts to maximize and control quality, we will continue to meet the needs of the modern era.

Fulfilling the High-Level Requirements of Our Customers with the Shin-Etsu Six Sigma Method.

Based on statistical methods, “Six Sigma*” is a quality control system that uses data analysis to determine defect rates in our products and has been the focus of attention as part of our management methods. At Shin-Etsu Chemical, the Six Sigma concept has been used in combination with our experience in business thus far to create a proprietary composite method for quality control called “Shin-Etsu Six Sigma,” which was introduced in 2000 and has steadily improved our results ever since. We will continue to strive for further improvement in quality control by approaching problems from a variety of perspectives, fulfilling the high-level requirements of our customers while simultaneously improving awareness of quality among each and every one of our employees as part of our personnel development efforts.

*Six Sigma: The “sigma” in the name Six Sigma is statistical terminology for standard deviation, an expression of variability. Six Sigma is an extremely rigorous quality control system that accepts no more than three or four defects in 1 million products.

Basic Policy and Promotion System

The Shin-Etsu Group will fulfill its social responsibility and strive to create and expand the new value demanded by society through all our business activities based on products and technologies.

ESG Promotion Engine

The Group's social responsibility is to execute its Business Principle and contribute to shareholders, investors, customers, business partners, regional communities, employees and all other stakeholders. To achieve this, we promote ESG activities based on the establishment of a Basic CSR Policy and various internal regulations. We reorganized the former CSR Promotion Committee and formed the ESG Promotion Committee in 2017, which is now chaired by the president of Shin-Etsu Chemical, comprising managers from relevant divisions and departments, to promote companywide ESG activities in all aspects of corporate activities.

Basic CSR Policy

The Shin-Etsu Group:

1. Will do our best to increase the Group's corporate value through sustained growth and make multifaceted contributions to society.
2. Will carry out all of our company activities by always making safety our utmost priority.
3. Will constantly pursue energy-saving, resource-saving and the reduction of the environmental impact, and seek to help create a sustainable future world in which we all live in harmony with the Earth.
4. Will endeavor to contribute to the prevention of global warming and the conservation of biodiversity by means of our cutting-edge technologies and products.
5. Will strive to respect human dignity, assure equality in employment opportunities and support the self-fulfillment of our employees.
6. Will appropriately disclose information in a timely manner.
7. Will carry out trustworthy corporate activities that are based on the integrity of the Group's ethical values.

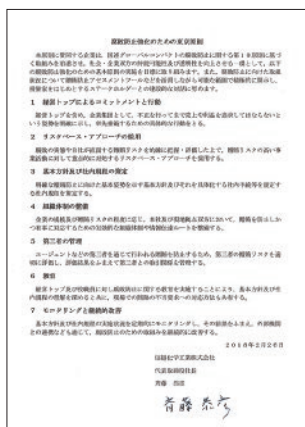
Activities in FY2017

► Agreement with the "Tokyo Principles for Strengthening Anti-Corruption Practices"

In December 2017, we signed onto the "Tokyo Principles for Strengthening Anti-Corruption Practices" of the GCNJ* to show our Group's commitment to conducting anti-corruption activities. It agrees with our position of anti-corruption stated in the Business Principle.

*GCNJ (Global Compact Network Japan): A Japanese local branch of the United Nations Global Compact.

Tokyo Principles for Strengthening Anti-Corruption Practices



► ESG Promotion Committee Kicked Off

In December 2017, we held a kickoff meeting of the ESG Promotion Committee and shared basic ideas of the Group's ESG promotion. At the meeting, the United Nations SDGs (sustainable development goals) and the GCNJ's "Tokyo Principles for Strengthening Anti-Corruption Practices" were introduced and various issues were discussed for each Committee member to address.



http://www.uncgcnj.org/activities/tca/data/tca_6.pdf

Supporting and Implementing Principles and Global Charters

The Group signed and put into practice the Responsible Care Global Charter of the International Council of Chemical Associations (ICCA) in 2006. In 2014, we signed the revised Responsible Care Global Charter. In 2010, the Group became a participant in the United Nations Global Compact (UNGC) and has been voluntarily supporting and practicing in its business operations and strategies the UNGC's Ten Principles with regard to human rights, labor standards, the environment and the prevention of corruption. Furthermore, since November of the same year, we also have participated in Global Compact Network Japan and incorporate the latest trends in CSR obtained from the

Supply Chain and ESG Subcommittees to promote ESG throughout the Group. These principles are all in line with the Group's Business Principle and Basic CSR Policy. The Group will continue to uphold these initiatives and charters and will endeavor to build even deeper relationships of trust with people around the world.



Identifying Key Issues (Materiality)

Since the establishment of the CSR Promotion Committee in 2005 (reorganized as the ESG Promotion Committee in 2017), the Group has promoted CSR initiatives within all its business activities. In 2015, we conducted a careful examination of our global CSR guidelines and the demands from stakeholders. The CSR Promotion Committee conducted a survey of all divisions and major Group companies to identify key issues facing the Group. Then, the Managing Directors' Meeting, the

decision-making body for the execution of operations comprising all directors, deliberated to define key CSR issues that require specific attention.

The Group targets "Contributions to the Earth's Future" by addressing all these issues equally and putting the Business Principle into practice. In most cases, these efforts conform to the UN's Sustainable Development Goals (SDGs).

Shin-Etsu Group Aims Contributions to the Earth's Future

Strengthen existing businesses
Create new businesses

Employees and contractor health and safety

Product quality improvements
and product safety control

Respect for human rights, the development of
human resources and the promotion of diversity

Contribution to industry and social initiatives

Energy-saving, resource-saving and the
reduction of the environmental impact

Promoting CSR procurement and
the diversification of supply sources

Respect for and protection of intellectual property

Accurate and timely information disclosure
and communication with stakeholders

The cornerstone of all activities: Legal compliance, Fair corporate activities

Environment
Social
Governance

Shin-Etsu Group Key Issues

Please visit the CSR section of our Web site for detailed information on each initiative.

WEB <https://www.shinetsu.co.jp/en/csr/>

The Cornerstone of All Activities: Legal Compliance, Fair Corporate Activities

The opening lines of the Group's Business Principle include the concepts "legal compliance" and "fair corporate activities." In recognition of issues related to all eight key issues comprising the cornerstone of all these activities, all group companies engage in legal compliance and fair corporate activities.

E Environment

Key Issue

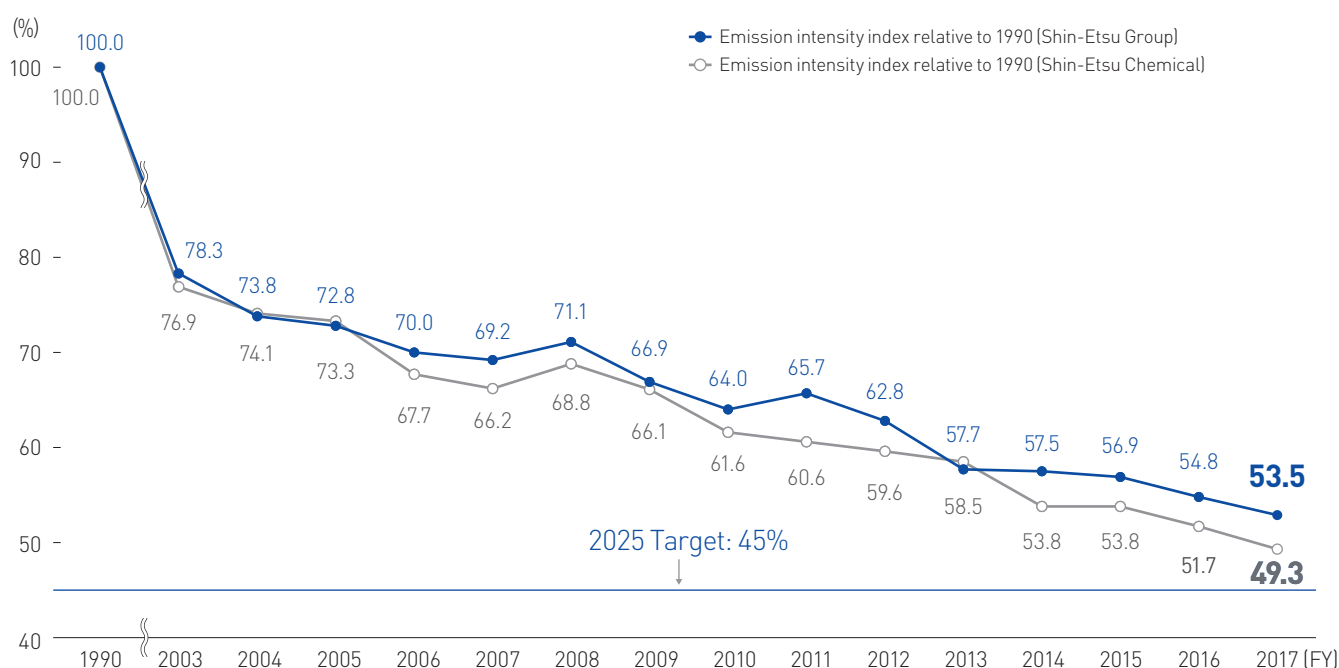
Energy-saving, resource-saving and the reduction of the environmental impact



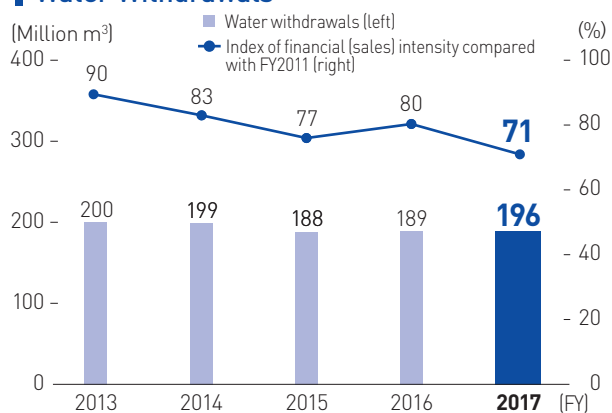
Products provided by the Group have become indispensable aspects of global industries and people's daily lives. For this reason, we are aware that it is critical to reduce environmental burdens not only during manufacturing but also during use, disposal and throughout all processes. The Group strives not

only to ensure thorough reduction of environmental burdens in manufacturing processes but also for product development and sales of eco-friendly products such as rare earth magnets and PVC. Rare earth magnets are used in eco-cars, and PVC has a low dependency on petroleum resources.

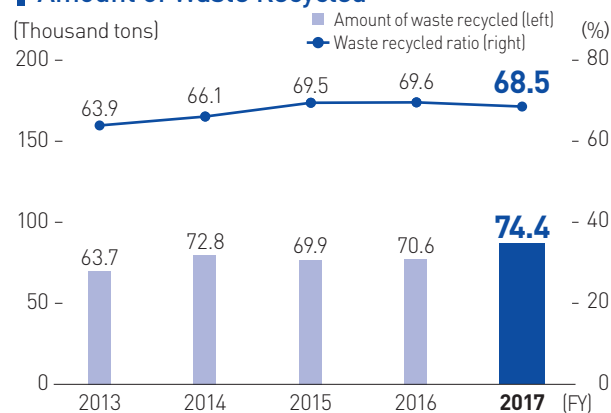
Changes in Greenhouse Gas Emission Intensity Relative to FY1990 Levels



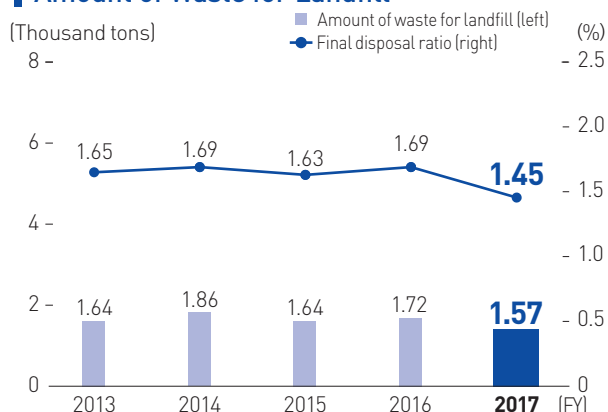
Water Withdrawals



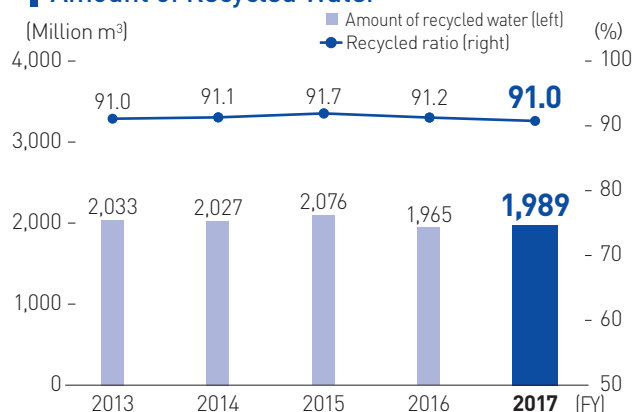
Amount of Waste Recycled



Amount of Waste for Landfill

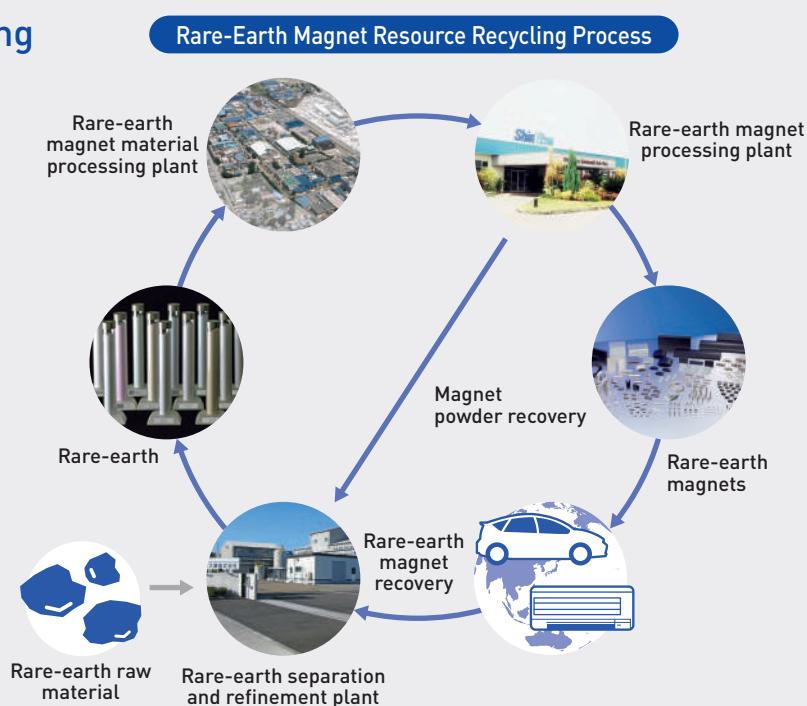


Amount of Recycled Water



Rare Earth Magnet Recycling Aimed at Resource Conservation

The Shin-Etsu Group utilizes separation and refinement technologies to extract rare earth metals from used materials. Since 2013, we have used the latest technologies to recover rare earth magnets used in energy-saving air conditioners and hybrid cars. This ensures a stable source of valuable rare earth metals and contributes to protecting the environment by reducing waste and reusing resources.

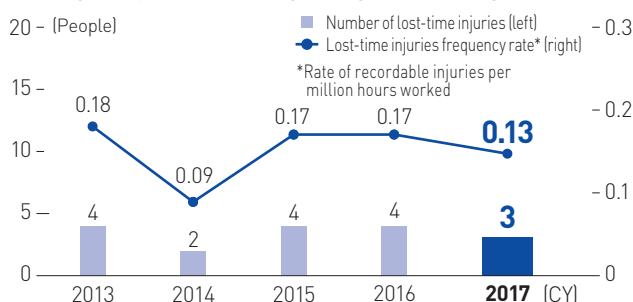


S Social

Key Issue Employees and contractor health and safety

As a chemicals company, we recognize the importance of issues related to employee safety and health. To this end, we engage in environmental preservation at each plant, occupational safety and health and process safety and prevention plans. The Group is engaged in creating safe and comfortable workplaces that aim to prevent the occurrence of serious accidents and reduce lost time incidents to zero.

Number of Lost-Time Injuries and Changes in Frequency Rates (Group companies in Japan)



Participants of Safety Education Programs

Coverage	FY2014	FY2015	FY2016	FY2017
Shin-Etsu Chemical	7,224	7,531	7,970	9,751
Consolidated companies*	—	—	22,166	24,829

*Started to compile the consolidated data from FY2016.

Environmental Control and Safety Audits

To confirm that activities such as environmental conservation, occupational safety and health, process safety and prevention planning are carried out as mandated, the Group conducts an audit and the audit result is reported to the top management.

In referring to cases from other companies in fiscal 2013, we communicated revisions to the "Nonroutine Work Safety Measures" within the company. Their implementation status review in fiscal 2017 was conducted as a special audit theme.

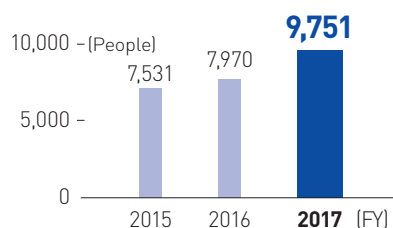


Audit conducted at Shin-Etsu Silicones of America, Inc., in January 2018

Key Issue Product quality improvements and product safety control

The Group's products are used in people's daily lives and to support society. At the same time, there is a critical focus on the safety of chemical substances as a global social issue. The Group strictly manages product safety and improves quality control in line with the laws and regulations of each country.

Participants of Product Safety Related Training Programs

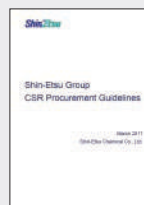


Key Issue Promoting CSR procurement and the diversification of supply sources

There is a critical focus on appropriate procurement of raw materials throughout the global supply chain as a global social issue. The Group promotes fair procurement activities based on its Basic Procurement Policy in an effort to create supply chains that consider the environment.

Creation of the CSR Procurement Guidelines

The Shin-Etsu Group formulated the CSR Procurement Guidelines. In accordance with these guidelines, we educate staff in the Purchasing Department and conduct briefings to inculcate an understanding of Group initiatives among business partners and companies upstream. Through these activities, the Group will contribute to the realization of a sustainable society.



Briefing on CSR Procurement Guidelines held in July 2017

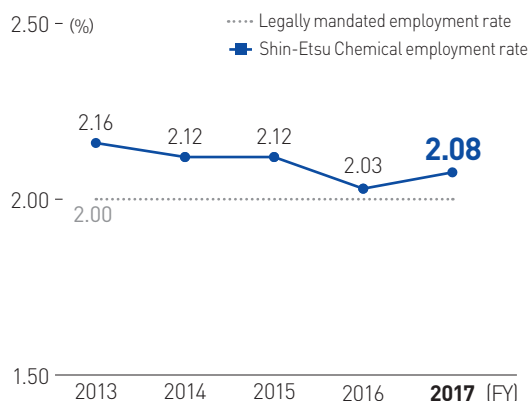
Key Issue

Respect for human rights, the development of human resources and the promotion of diversity



The Group is engaged in realizing the creation of a comfortable work environment that respects basic human rights where each employee can achieve health, self-realization and follow a career path.

Employment Rate of Persons with Disabilities



Number of Employees Who Have Taken Child-Care Leave

(People)	FY2014		FY2015		FY2016		FY2017	
	Female	Male	Female	Male	Female	Male	Female	Male
Shin-Etsu Chemical	8	2	6	0	9	0	8	0
Consolidated companies in Japan	44	3	36	2	35	0	31	0
Consolidated companies total	86	56	73	44	72	68	69	77

Number of People Obtaining Nursing Care Leave

(People)	FY2014	FY2015	FY2016	FY2017
Consolidated companies in Japan	3	3	1	2

Note: Data of the Shin-Etsu Group includes employees and secondees.

Fund-Raising for UN World Refugee Day

The UNHCR (Office of the United Nations High Commissioner for Refugees) supports refugees worldwide who are driven out of their homes by conflict, persecution and disaster.

Since 2006, we have supported refugees worldwide through the collection of donations in the company for World Refugee Day (June 20), which was established by the United Nations, and we have made those donations to the UNHCR through the Japan Association for the UNHCR. Furthermore, we have implemented donation by the company since 2012.



Key Issue

Respect for and protection of intellectual property

We maintain the confidentiality, integrity and availability of information assets possessed by the Group and engage in the acquisition and use of intellectual property and appropriately manage and protect information assets to strategically execute corporate management focused on intellectual assets.

Number of Patents Acquired and Held (Major group companies)

(Number of patents)

Breakdown	Patents Acquired			Patents Held		
	FY2015	FY2016	FY2017	FY2015	FY2016	FY2017
Japan	616	697	591	7,027	7,355	7,562
Overseas total	1,163	1,325	1,591	10,102	10,951	12,007
Asia/Oceania	602	642	724	4,190	4,707	5,314
North America	282	220	265	2,850	2,924	3,077
Europe	270	458	595	3,035	3,286	3,578
Other	9	5	7	27	34	38
Total	1,779	2,022	2,182	17,129	18,306	19,569



Key Issue

Contribution to industry and social initiatives

Group companies and employees proactively promote social contribution activities rooted in local communities throughout the world. For example, for the past nine years Shintech (U.S. Group company) has collaborated with several local business partners to conduct the "Safety Town" safety education program targeting local kindergarten and elementary school students.

G Governance

Key Issue Accurate and timely information disclosure and communication with stakeholders

The Shin-Etsu Group believes the appropriate and timely disclosure of Company information promotes stakeholder understanding and leads to appropriate market valuation. We engage in fair and transparent disclosure through information posted on our corporate Web site, announcements in the media and at stock exchanges and publications including the annual report and reports for shareholders.

We also participate in a pilot project* for a non-financial disclosure system focused on environmental information, the first of its kind in the world, created by the Ministry of the

Environment in 2013. This information is viewed by a wide range of stakeholders. As ESG investment is expected to increase going forward, we will make an effort to provide even more non-financial information.

* Environmental Information Disclosure Platform Development Project: In light of the growing global trend of environmental, social and governance (ESG) investment, the Ministry of the Environment launched a project aimed at developing a non-financial information disclosure system focused on environmental information in 2013, the first of its kind in the world. In 2016, we launched a pilot program assuming full-year operations aiming to further invigorate dialogue with companies and investors. Reference: <http://www.env.go.jp/press/102683.html> (Japanese language only)

Outside Assessments

➤ Selected for the MSCI Global ESG Select Leaders Index

A leading global socially responsible investment (SRI) index created by Morgan Stanley Capital International (MSCI). This index is composed of companies having excellent ESG ratings within each industry from among the top 500 companies by market capitalization.



➤ Selected for the Morningstar Socially Responsible Investment Index

Morningstar Japan K.K. created the first socially responsible investment stock index in Japan, which selects 150 companies assessed for their excellent social performance out of approximately 3,700 domestic listed companies.



As of January 4, 2018

➤ Selected for the SNAM Sustainability Index

This index consists of companies with above-standard ESG scoring derived from corporate research related to environmental (E) factors conducted by Sampo Risk Management & Health Care, and corporate research related to social (S) and governance (G) factors conducted by IntegreX Inc.



➤ Selected for the FTSE4Good Index Series

On the socially responsible investment (SRI) index calculated and made public since 2001 by the London Stock Exchange group index calculation company, FTSE Russell, we have achieved a globally competitive score.



➤ Selected for the TSE Blossom Japan Index

This stock price index calculated and made public by FTSE Russell is made up of listed Japanese companies considered excellent from the perspectives of environmental, social and governance (ESG) factors.



Corporate Governance

For more detailed information, please see the Governance section on the Group's Web site.

WEB https://www.shinetsu.co.jp/en/csr/csr_governance.html

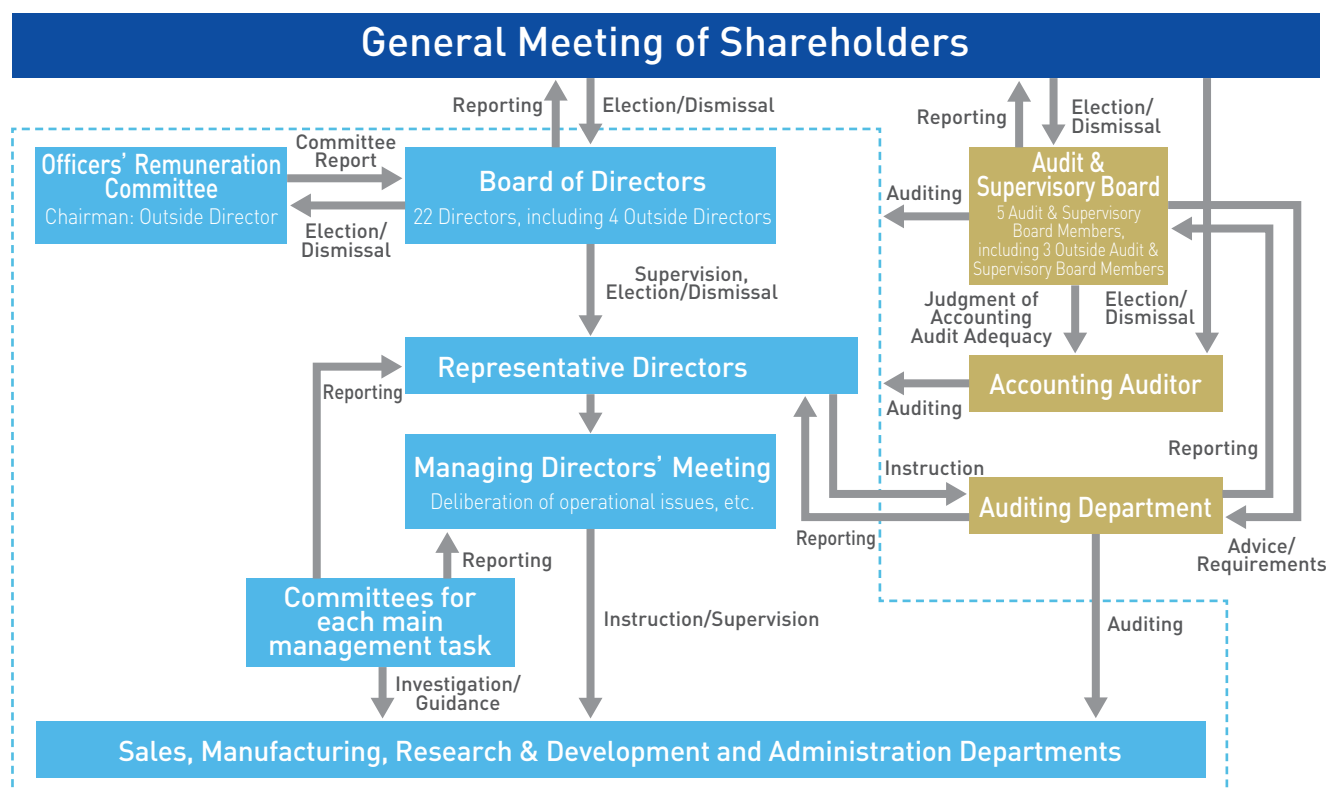
Basic Approach

Shin-Etsu Chemical develops various systems and has an efficient organizational structure able to quickly respond to changes in the business environment to realize the basic management policies of meeting shareholder expectations and continuously enhancing corporate value. Furthermore, our basic approach to corporate governance is focused on efforts to disclose accurate information to shareholders and investors from the perspectives of improving management transparency and enhanced monitoring functions, which we position as one of our most important management priorities.

Corporate Governance Structure (as of June 30, 2018)

Outside Audit & Supervisory Board members strive to ensure a sufficient auditing function by Audit & Supervisory Board members through collaborations between members and internal audit departments. We also strive to enhance the system and the staff members supporting the audits conducted by the Audit & Supervisory Board members. Furthermore, the four highly independent Outside Directors have an effective mechanism to strengthen management supervisory functions. The Outside Directors conduct sufficient management supervision with help by the Audit & Supervisory Board members and the internal audit departments. In this way, the Company employs a statutory auditor system as our corporate governance system to ensure the governance structure desired by the Company and earn the confidence of shareholders and investors.

Shin-Etsu Chemical's Board of Directors consists of 22 members (of which four are Outside Directors) and five Audit & Supervisory Board Members (of which three are Outside Audit & Supervisory Board members). In addition to the Board of Directors, the legally designated deliberator of business execution and the decision-making body, we have established a Managing Directors' Meeting, both of which meet once each month, in principle. Furthermore, the Officers' Remuneration Committee, chaired by an Outside Director, deliberates and evaluates executive remuneration and reports to the Board of Directors.



Officers' Remuneration

To ensure the transparency and fairness of executive remuneration, the Officers' Remuneration Committee was established in 2002 as an advisory body to the Board of Directors. This committee, chaired by Outside Director Frank Peter Popoff, assesses the overall degree of contribution by each Director to performance and general management each fiscal year, reporting the results of these evaluations to the Board of Directors.

About Decision Making Related to the Remuneration Amount and Calculation Method

Shin-Etsu Chemical Director remuneration is within the scope of the compensation framework approved by the General Meeting of Shareholders and determined by the Board of Directors in light of assessments and evaluations by the Officers' Remuneration Committee chaired by an Outside Director. Director remuneration consists of "basic remuneration" reflecting position and duties, a bonus based on annual performance and stock options.

Audit & Supervisory Board member remuneration is within the scope of the compensation framework approved by the General Meeting of Shareholders and is determined through consultation with Audit & Supervisory Board members in light of the duties as an Audit & Supervisory Board member, and consists of basic remuneration and a bonus.

Moreover, Outside Directors and Audit & Supervisory Board members do not receive stock options. Outside Directors and Outside Audit & Supervisory Board members also do not receive a bonus.

Remuneration Amount by Director Type and Its Detail, Number of Applicable Directors (For the year ended March 31, 2018)

Designation	Amount of Remuneration by Type (¥ million)			Number of Recipients (People)	Amount of Remuneration (¥ million)	Number of Recipients (People)
	Base Amount	Bonus	Total		Stock Option	
Directors (excluding Outside Directors)	1,048	566	1,615	19	198	18
Audit & Supervisory Board Members (excluding outside Audit & Supervisory Board Members)	31	9	40	2	—	—
Outside Directors and Outside Audit & Supervisory Board Members	149	—	149	7	—	—

Notes:

1. Includes one Director who resigned at the conclusion of the 140th General Shareholders' Meeting held on June 29, 2017.
2. The bonus indicates the amount accrued in the current fiscal year.
3. The Officers' Retirement Benefits Program was repealed at the conclusion of the 131st General Shareholders' Meeting held on June 27, 2008.
4. The amount for stock options is an expensed amount calculated for the current fiscal year based on the accounting standards. Therefore, it does not represent the amount paid in cash and the amount the company guarantees to pay in cash, either. In addition, the salary amounts for Directors' concurrently held positions are not included.
5. Payments to Directors do not include employee salary amounts (including bonuses) equivalent to concurrently held positions. Salary amounts for concurrently held positions are immaterial.
6. The total amount of remuneration to Directors (excluding Outside Directors) consisting of "basic remuneration," "bonus" and "stock options" was ¥1,814 million.

Compliance

Internal Control System

Status of Internal Control System Development

Shin-Etsu Chemical has formulated a Basic Policy on Internal Controls to comply with Japanese law, Article 362, Paragraph 4, Item 6, of the Companies Act. In line with this basic policy, we have established and operate an internal control system that undergoes constant review in an effort to enhance its appropriateness and efficiency.

Status of Audit and Supervisory Board Auditing and Internal Auditing

Shin-Etsu Chemical's Audit & Supervisory Board members attend important internal meetings and conduct audits on the execution of operations through the review of important documents and physical observation of plants in Japan and overseas. As necessary, regarding audits conducted by the accounting auditor, the Audit & Supervisory Board members request reports and explanations, sitting down with them for research, and exchange information and opinions several times throughout the year. The staff from the Auditing Department and the Legal Department also assist the Audit & Supervisory Board members with their duties.

In terms of the internal auditing organizational structure, the Auditing Department is constantly engaged in the operational auditing of each department from the perspectives of legal compliance and the rationality of business activities. The results of these activities are reported to management, the Outside Directors and the Audit & Supervisory Board members.

The Audit & Supervisory Board members hold regular monthly meetings with the Auditing Department where they receive progress reports on activities, internal auditing results and other matters. They provide advice on topics including these activities and the selection of key auditing themes and request investigations. They also exchange information and opinions on an ongoing basis if necessary. The Auditing Department also attends meetings where Audit & Supervisory Board members receive reports and explanations from the Accounting Auditor in an effort to strengthen the auditing function based on more effective tripartite cooperation.

Tax Compliance

The Group's Business Principle refers to strict compliance with all laws and regulations and conducting fair business practices. Based on this, employees within the group each work sincerely and faithfully at their tasks day by day. One of our goals as the group is contributing to society by paying the taxes required by the applicable laws of each country in which we do business, as calculated based on the profits earned from our activities. In the 2017 fiscal year, our consolidated companies paid a total of approximately 74.7 billion yen in taxes.

Compliance with the Corporate Governance Code

The Group is in compliance with the Tokyo Stock Exchange Corporate Governance Code and implements all 11 principles therein.

WEB https://www.shinetsu.co.jp/en/csr/csr_governance.html#governance

Outside Directors and Outside Audit & Supervisory Board Members

[As of March 31, 2018]



From the left: Toshihiko Fukui, Hiroshi Komiyama, Frank Peter Popoff, Tsuyoshi Miyazaki



From the left: Yoshihito Kosaka, Kiyoshi Nagano, Taku Fukui

	Important Concurrent Positions (As of March 31, 2018)	Status of Activities	Attendance at Board Meetings (Year Ended March 31, 2018)
Outside Director Frank Peter Popoff	Senior Adviser, American Express Company	Mr. Popoff's opinions and practical advice, from a broad perspective based on his management experience as CEO of the former Dow Chemical Company, a U.S. company that has a long history as a global company, have been of significant importance for the Company to expand its business overseas and enhance its corporate value.	Board of Directors Meetings 100%
Outside Director Tsuyoshi Miyazaki	Adviser, Mitsubishi Logistics Corporation	He shared his comments from a broad, high-level perspective capitalizing on his management experience at Mitsubishi Logistics Corporation. He also provided thorough supervision from an independent standpoint.	Board of Directors Meetings 100%
Outside Director Toshihiko Fukui	President, Canon Institute for Global Studies Outside Director, Kikkoman Corporation	He shared his comments from a broad, high-level perspective capitalizing on his outstanding knowledge and wealth of experience related to global finance and economy as an ex-Governor of the Bank of Japan. He also provided thorough supervision from an independent standpoint.	Board of Directors Meetings 93%
Outside Director Hiroshi Komiyama	Chairman, Mitsubishi Research Institute, Inc.	He shared his comments from a broad, high-level perspective capitalizing on his outstanding knowledge and wealth of experience in a wide range of disciplines, including chemical engineering, the global environment, and natural resources and energy. He also provided thorough supervision from an independent standpoint.	Board of Directors Meetings 86%
Outside Audit & Supervisory Board Member Taku Fukui	Lawyer Managing Partner, Kashiwagi Sogo Law Offices Professor, Keio University Law School Outside Director, Yamaha Corporation	At the Audit & Supervisory Board meetings, he shared his comments from a legal specialist's point of view and contributed to the establishment of a compliance structure.	Board of Directors Meetings 100% Audit & Supervisory Board Members Meeting 100%
Outside Audit & Supervisory Board Member Yoshihito Kosaka	C.P.A. Certified Public Tax Accountant Counselor, Kisaragi Audit Corporation Audit and Supervisory Committee Member, Star Mica Co., Ltd.	At the Audit & Supervisory Board meetings, he shared his comments from a finance and accounting specialist's point of view and contributed to the establishment of a compliance structure.	Board of Directors Meetings 100% Audit & Supervisory Board Members Meeting 100%
Outside Audit & Supervisory Board Member Kiyoshi Nagano	Outside Director, LEC, INC.	At the Audit & Supervisory Board meetings, he shared his comments from an extensive viewpoint based on his management experience at the former Jasdaq Securities Exchange, Inc., and contributed to the establishment of a compliance structure.	Board of Directors Meetings 100% Audit & Supervisory Board Members Meeting 100%

Board of Directors and Audit & Supervisory Board Members

[As of June 28, 2018]



Representative Director-
Chairman
Chihiro Kanagawa

Director, Chairman and
Founder of SHINTECH Inc.



Representative Director-
Vice Chairman
Fumio Akiya

In charge of Semiconductor Materials,
and Technologies
Representative Director & President of Shin-Etsu
Handotai Co., Ltd.



Representative Director-
President
Yasuhiko Saitoh

Director & President of SHINTECH Inc.
Director & President of Shin-Etsu Handotai
America, Inc.

Senior Managing Director	Toshinobu Ishihara	In charge of New Functional Materials, Special Functional Products
Senior Managing Director	Susumu Ueno	General Manager, Silicone Div.
Senior Managing Director	Masahiko Todoroki	General Manager, Planning & Administration Dept., Semiconductor Materials Div., Senior Managing Director of Shin-Etsu Handotai Co., Ltd.
Managing Director	Toshiya Akimoto	In charge of Office of the Secretariat, Office of the President, Public Relations and Legal Affairs
Managing Director	Fumio Arai	General Manager, Organic Chemicals Div., Director & President of Shin-Etsu PVC B.V. and SE Tylose GmbH & Co. KG
Managing Director	Yukihiro Matsui	General Manager of Electronics Materials Div.
Managing Director	Masaki Miyajima	In charge of Advanced Materials, General Manager, PVC Div.
Director	Shunzo Mori	
Director	Frank Peter Popoff¹	Senior Adviser, American Express Company
Director	Tsuyoshi Miyazaki¹	Adviser, Mitsubishi Logistics Corporation
Director	Toshihiko Fukui¹	President, Canon Institute for Global Studies Outside Director, Kikkoman Corporation
Director	Hiroshi Komiyama¹	Chairman, Mitsubishi Research Institute, Inc.
Director	Toshiyuki Kasahara	General Manager, Finance & Accounting Dept.
Director	Hidenori Onezawa	In charge of Business Auditing
Director	Kazumasa Maruyama	General Manager, New Functional Materials Dept.
Director	Kenji Ikegami	In charge of General Affairs, Personnel & Labor Relations and Purchasing
Director	Toshio Shiobara	In charge of R&D and Patents, Deputy General Manager of Electronics Materials Div. (in charge of Organic Electronics Materials)
Director	Yoshimitsu Takahashi	In charge of Environment Control & Safety, General Manager, Business Development Dept.
Director	Kai Yasuoka	General Manager, International Div.
Audit & Supervisory Board Member	Osamu Okada	
Audit & Supervisory Board Member	Hiroaki Okamoto	
Audit & Supervisory Board Member	Taku Fukui²	Managing Partner, Kashiwagi Sogo Law Offices, Professor, Keio University Law School Outside Director, Yamaha Corporation
Audit & Supervisory Board Member	Yoshihito Kosaka²	Counselor, Kisaragi Audit Corporation Audit and Supervisory Committee Member, Star Mica Co., Ltd.
Audit & Supervisory Board Member	Kiyoshi Nagano²	Outside Director, LEC, INC.

Notes: 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.

Ten-Year Summary

SHIN-ETSU CHEMICAL CO., LTD. AND SUBSIDIARIES

For the fiscal years ended March 31, 2009 through 2018

For more detailed information, please see the Financial & IR Information on the Group's Web site

WEB https://www.shinetsu.co.jp/en/ir/ir_data.html

	2009	2010	2011	2012
For the year:				
Net sales	¥1,200,813	¥ 916,837	¥1,058,257	¥1,047,731
Cost of sales	853,433	700,902	803,574	798,592
Selling, general and administrative expenses	114,453	98,718	105,460	99,505
Operating income	232,927	117,215	149,221	149,632
Ordinary income	250,533	127,019	160,338	165,237
Net income attributable to owners of parent	154,731	83,852	100,119	100,643
Capital expenditures	159,406	123,793	119,884	87,165
R&D costs	37,469	33,574	37,321	35,725
Depreciation and amortization	119,457	87,722	93,732	82,868
At year-end:				
Total assets	¥1,684,944	¥1,769,139	¥1,784,166	¥1,809,841
Working capital (Current assets - Current liabilities)	606,632	612,447	638,493	694,803
Common stock	119,419	119,419	119,419	119,419
Net assets	1,407,353	1,474,212	1,469,429	1,494,573
Interest-bearing debt	23,827	20,052	14,574	15,732
Per share (Yen and U.S. dollars):				
Net income per share	¥ 362.39	¥ 197.53	¥ 235.80	¥ 237.03
Diluted net income per share ²	362.35	197.50	235.80	—
Cash dividends	100.00	100.00	100.00	100.00
Payout ratio (%)	27.6	50.6	42.4	42.2
Net assets	3,218.28	3,370.56	3,360.39	3,422.93
General:				
Operating income to net sales ratio (%)	19.4	12.8	14.1	14.3
Net income attributable to owners of parent to net sales ratio (%)	12.9	9.1	9.5	9.6
ROE (%)	11.0	6.0	7.0	7.0
ROA (%)	13.9	7.4	9.0	9.2
Equity ratio (%)	81.1	80.9	80.0	80.3
Number of employees	19,170	16,955	16,302	16,167
Number of shares issued (Thousands)	432,106	432,106	432,106	432,106

Notes: 1. The U.S. dollar amounts represent conversion of yen, for convenience only, at the rate of ¥106 = US\$1, the approximate rate of exchange on March 31, 2018.

2. Diluted net income per share for the fiscal year ended March 31, 2012 is not presented as there were no securities with dilutive effect.

					Millions of yen	Millions of U.S. dollars [Note 1]
2013	2014	2015	2016	2017	2018	2018
¥1,025,409	¥1,165,819	¥1,255,543	¥1,279,807	¥1,237,405	¥1,441,432	\$ 13,598
769,427	873,879	940,399	930,019	868,404	963,008	9,084
98,938	118,130	129,814	141,262	130,383	141,601	1,335
157,043	173,809	185,329	208,525	238,617	336,822	3,177
170,207	180,605	198,025	220,005	242,133	340,308	3,210
105,714	113,617	128,606	148,840	175,912	266,235	2,511
86,841	83,155	109,903	134,753	145,647	176,283	1,663
37,671	43,546	47,165	53,165	49,020	51,768	488
80,961	91,445	96,918	100,466	93,087	112,016	1,056
¥1,920,903	¥2,198,912	¥2,452,306	¥2,510,085	¥2,655,636	¥2,908,328	\$ 27,437
832,878	981,667	1,100,999	1,170,679	1,232,607	1,356,638	12,798
119,419	119,419	119,419	119,419	119,419	119,419	1,126
1,623,176	1,822,135	2,012,711	2,080,465	2,190,082	2,413,025	22,764
13,929	15,638	14,328	13,470	14,642	15,814	149
¥ 248.94	¥ 267.20	¥ 302.05	¥ 349.46	¥ 412.86	¥ 624.28	\$ 5.889
248.92	267.07	301.98	349.42	412.83	624.10	5.888
100.00	100.00	100.00	110.00	120.00	140.00	1.321
40.2	37.4	33.1	31.5	29.1	22.4	22.4
3,709.19	4,165.28	4,602.80	4,761.48	5,002.16	5,511.98	52.000
15.3	14.9	14.8	16.3	19.3	23.4	23.4
10.3	9.7	10.2	11.6	14.2	18.5	18.5
7.0	6.8	6.9	7.5	8.5	11.9	11.9
9.1	8.8	8.5	8.9	9.4	12.2	12.2
82.0	80.6	79.9	80.8	80.3	80.8	80.8
17,712	17,892	18,276	18,407	19,206	20,155	20,155
432,106	432,106	432,106	432,106	432,106	432,106	432,106

Consolidated Balance Sheet

SHIN-ETSU CHEMICAL CO., LTD. AND SUBSIDIARIES
As of March 31, 2017 and 2018

		Millions of yen	Millions of U.S. dollars
	2017	2018	2018
ASSETS			
Current Assets:			
Cash and time deposits	¥ 752,675	¥ 854,506	\$ 8,061
Notes and accounts receivable-trade	287,853	332,880	3,140
Securities	186,591	197,339	1,861
Merchandise and finished goods	126,026	135,033	1,273
Work in process	12,234	13,235	124
Raw materials and supplies	128,896	133,808	1,262
Deferred taxes, current	35,937	36,475	344
Other	33,941	48,313	455
Less: Allowance for doubtful accounts	(14,549)	(12,201)	(115)
Total current assets	1,549,607	1,739,392	16,409
Fixed Assets:			
Property, Plant and Equipment:			
Buildings and structures, net	174,923	176,323	1,663
Machinery and equipment, net	437,775	454,846	4,291
Land	86,953	88,746	837
Construction in progress	139,180	170,810	1,611
Other, net	7,737	9,001	84
Total property, plant and equipment	846,570	899,728	8,488
Intangible Assets	10,229	9,405	88
Investments and Other Assets:			
Investments in securities	135,311	145,455	1,372
Net defined benefit asset	1,928	2,440	23
Deferred taxes, non-current	22,562	21,584	203
Other	91,265	92,518	872
Less: Allowance for doubtful accounts	(1,840)	(2,197)	(20)
Total investments and other assets	249,228	259,801	2,450
Total fixed assets	1,106,028	1,168,935	11,027
Total Assets	¥ 2,655,636	¥ 2,908,328	\$ 27,437

		Millions of yen	Millions of U.S. dollars
	2017	2018	2018
LIABILITIES			
Current Liabilities:			
Notes and accounts payable—trade	¥ 123,823	¥ 136,834	\$ 1,290
Short-term borrowings	12,788	7,094	66
Accounts payable—other	54,671	65,750	620
Accrued expenses	61,611	68,805	649
Accrued income taxes	32,711	58,972	556
Accrued bonuses for employees	2,898	3,147	29
Accrued bonuses for directors	612	674	6
Other	27,881	41,474	391
Total current liabilities	317,000	382,753	3,610
Long-Term Liabilities:			
Long-term debt	1,578	8,430	79
Deferred taxes, non-current	98,228	62,335	588
Net defined benefit liability	35,809	32,282	304
Other	12,936	9,499	89
Total long-term liabilities	148,553	112,549	1,061
Total Liabilities	465,553	495,302	4,672
NET ASSETS			
Stockholders' Equity:			
Common stock	119,419	119,419	1,126
Additional paid-in capital	129,626	129,937	1,225
Retained earnings	1,857,857	2,070,779	19,535
Less: Treasury stock, at cost	(31,213)	(30,207)	(284)
Total stockholders' equity	2,075,690	2,289,929	21,603
Accumulated Other Comprehensive Income:			
Unrealized gains (losses) on available-for-sale securities	22,887	26,446	249
Deferred gains (losses) on hedges	862	1,671	15
Foreign currency translation adjustments	35,154	34,611	326
Remeasurements of defined benefit plans	(1,761)	(1,416)	(13)
Total accumulated other comprehensive income	57,142	61,313	578
Share Subscription Rights	152	524	4
Non-Controlling Interests in Consolidated Subsidiaries	57,096	61,258	577
Total net assets	2,190,082	2,413,025	22,764
Total Liabilities and Net Assets	¥ 2,655,636	¥ 2,908,328	\$ 27,437

Consolidated Statement of Income

SHIN-ETSU CHEMICAL CO., LTD. AND SUBSIDIARIES
For the fiscal years ended March 31, 2017 and 2018

	Millions of yen		Millions of U.S. dollars
	2017	2018	2018
Net Sales	¥1,237,405	¥1,441,432	\$ 13,598
Cost of Sales	868,404	963,008	9,084
Gross profit	369,001	478,424	4,513
Selling, General and Administrative Expenses	130,383	141,601	1,335
Operating income	238,617	336,822	3,177
Other Income (Expenses):			
Interest income	4,714	6,122	57
Dividend income	2,602	4,817	45
Equity in earnings (losses) of affiliates	2,788	3,762	35
Interest expenses	(529)	(621)	(5)
Loss on disposal of property, plant and equipment	(974)	(3,239)	(30)
Foreign exchange gain (loss)	(3,697)	(6,140)	(57)
Other, net	(1,388)	(1,215)	(11)
Ordinary income	242,133	340,308	3,210
Income before income taxes and non-controlling interests	242,133	340,308	3,210
Income Taxes:			
Current	67,187	103,240	973
Deferred	(3,363)	(32,990)	(311)
	63,823	70,249	662
Net income	178,309	270,058	2,547
Net income Attributable to Non-Controlling Interests	(2,397)	(3,822)	(36)
Net income Attributable to Owners of Parent	¥ 175,912	¥ 266,235	\$ 2,511

	Yen		U.S. dollars
Earnings per Share:			
Net income attributable to owners of parent—basic	¥ 412.86	¥ 624.28	\$ 5.889
Net income attributable to owners of parent—fully diluted	412.83	624.10	5.888
Cash dividends	120.00	140.00	1.321
Weighted-Average Number of Shares Outstanding (Thousands)	426,086	426,470	426,470

Consolidated Statement of Comprehensive Income

SHIN-ETSU CHEMICAL CO., LTD. AND SUBSIDIARIES
For the fiscal years ended March 31, 2017 and 2018

	Millions of yen		Millions of U.S. dollars
	2017	2018	2018
Net income	¥ 178,309	¥ 270,058	\$ 2,547
Other Comprehensive Income:			
Unrealized gains (losses) on available-for-sale securities	9,149	3,549	33
Deferred gains (losses) on hedges	(753)	806	7
Foreign currency translation adjustments	(34,265)	14	0
Remeasurements of defined benefit plans	(280)	337	3
Share of other comprehensive income (loss) of affiliates accounted for using the equity method	(205)	370	3
Total other comprehensive income (loss)	(26,356)	5,078	47
Comprehensive Income	¥ 151,953	¥ 275,137	\$ 2,595
(Breakdown)			
Comprehensive income attributable to owners of parent	¥ 150,576	¥ 270,406	\$ 2,551
Comprehensive income attributable to non-controlling interests	1,376	4,730	44

Consolidated Statement of Changes in Net Assets

SHIN-ETSU CHEMICAL CO., LTD. AND SUBSIDIARIES

	Thousands	Stockholders' Equity				Millions of yen
	Number of shares of common stock	Common stock	Additional paid-in capital	Retained earnings	Treasury stock, at cost	Total
Balance at April 1, 2016	432,106	¥119,419	¥128,759	¥1,731,042	¥[33,407]	¥1,945,813
Cash dividends				(48,987)		(48,987)
Net income attributable to owners of parent				175,912		175,912
Purchase of treasury stock					(19)	(19)
Disposal of treasury stock			878		2,213	3,092
Others			(11)	(109)		(121)
Net changes of items other than stockholders' equity						
Balance at March 31, 2017	432,106	¥119,419	¥129,626	¥1,857,857	¥[31,213]	¥2,075,690

								Millions of yen
	Accumulated Other Comprehensive Income							
	Unrealized gains (losses) on available-for-sale securities	Deferred gains (losses) on hedges	Foreign currency translation adjustments	Remeasurements of defined benefit plans	Total	Share subscription rights	Non-controlling interests in consolidated subsidiaries	Total net assets
Balance at April 1, 2016	¥13,780	¥1,611	¥68,566	¥(1,480)	¥82,478	¥237	¥51,936	¥2,080,465
Cash dividends								(48,987)
Net income attributable to owners of parent								175,912
Purchase of treasury stock								(19)
Disposal of treasury stock								3,092
Others								(121)
Net changes of items other than stockholders' equity	9,106	(749)	(33,412)	(280)	(25,335)	(84)	5,160	(20,259)
Balance at March 31, 2017	¥22,887	¥862	¥35,154	¥(1,761)	¥57,142	¥152	¥57,096	¥2,190,082

	Thousands	Stockholders' Equity				Millions of yen
	Number of shares of common stock	Common stock	Additional paid-in capital	Retained earnings	Treasury stock, at cost	Total
Balance at April 1, 2017	432,106	¥119,419	¥129,626	¥1,857,857	¥(31,213)	¥2,075,690
Cash dividends				(53,301)		(53,301)
Net income attributable to owners of parent				266,235		266,235
Purchase of treasury stock					(30)	(30)
Disposal of treasury stock			410		1,036	1,447
Others			(99)	(12)		(112)
Net changes of items other than stockholders' equity						
Balance at March 31, 2018	432,106	¥119,419	¥129,937	¥2,070,779	¥(30,207)	¥2,289,929

								Millions of yen
	Accumulated Other Comprehensive Income							
	Unrealized gains (losses) on available-for-sale securities	Deferred gains (losses) on hedges	Foreign currency translation adjustments	Remeasurements of defined benefit plans	Total	Share subscription rights	Non-controlling interests in consolidated subsidiaries	Total net assets
Balance at April 1, 2017	¥22,887	¥862	¥35,154	¥(1,761)	¥57,142	¥152	¥57,096	¥2,190,082
Cash dividends								(53,301)
Net income attributable to owners of parent								266,235
Purchase of treasury stock								(30)
Disposal of treasury stock								1,447
Others								(112)
Net changes of items other than stockholders' equity	3,559	809	(543)	344	4,171	371	4,161	8,703
Balance at March 31, 2018	¥26,446	¥1,671	¥34,611	¥(1,416)	¥61,313	¥524	¥61,258	¥2,413,025

Consolidated Statement of Changes in Net Assets

SHIN-ETSU CHEMICAL CO., LTD. AND SUBSIDIARIES

	Thousands	Millions of U.S. dollars				
	Stockholders' Equity					
	Number of shares of common stock	Common stock	Additional paid-in capital	Retained earnings	Treasury stock, at cost	Total
Balance at April 1, 2017	432,106	\$1,126	\$1,222	\$17,526	\$(294)	\$19,581
Cash dividends				(502)		(502)
Net income attributable to owners of parent				2,511		2,511
Purchase of treasury stock					(0)	(0)
Disposal of treasury stock			3		9	13
Others			(0)	(0)		(1)
Net changes of items other than stockholders' equity						
Balance at March 31, 2018	432,106	\$1,126	\$1,225	\$19,535	\$(284)	\$21,603

Millions of U.S. dollars								
	Accumulated Other Comprehensive Income						Total net assets	
	Unrealized gains (losses) on available-for-sale securities	Deferred gains (losses) on hedges	Foreign currency translation adjustments	Remeasurements of defined benefit plans	Total	Share subscription rights		Non-controlling interests in consolidated subsidiaries
Balance at April 1, 2017	\$215	\$8	\$331	\$(16)	\$539	\$1	\$538	\$20,661
Cash dividends								(502)
Net income attributable to owners of parent								2,511
Purchase of treasury stock								(0)
Disposal of treasury stock								13
Others								(1)
Net changes of items other than stockholders' equity	33	7	(5)	3	39	3	39	82
Balance at March 31, 2018	\$249	\$15	\$326	\$(13)	\$578	\$4	\$577	\$22,764

Consolidated Statement of Cash Flows

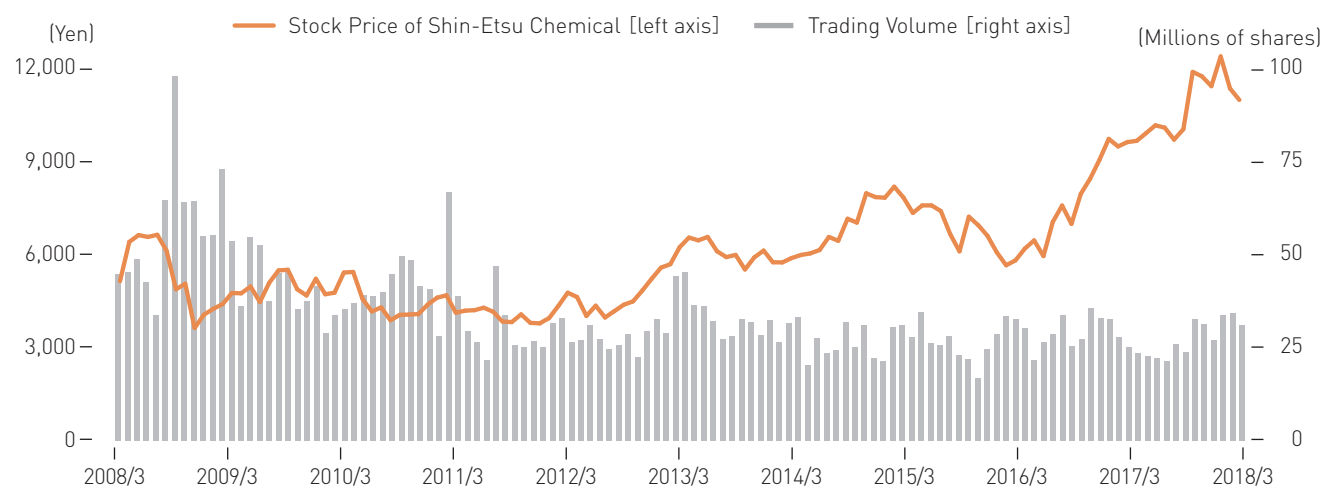
SHIN-ETSU CHEMICAL CO., LTD. AND SUBSIDIARIES
For the fiscal years ended March 31, 2017 and 2018

	Millions of yen		Millions of U.S. dollars
	2017	2018	2018
Cash Flows from Operating Activities:			
Income before income taxes and non-controlling interests	¥ 242,133	¥ 340,308	\$ 3,210
Adjustments to reconcile income before income taxes to net cash provided by operating activities:			
Depreciation and amortization	93,087	112,016	1,056
Loss on impairment of fixed assets	2,028	1,460	13
Increase (decrease) in net defined benefit liability	1,384	(4,469)	(42)
(Gain) loss on sales of investments in securities	(0)	(17)	(0)
Increase (decrease) in allowance for doubtful accounts	(165)	(2,019)	(19)
Interest and dividend income	(7,317)	(10,939)	(103)
Interest expenses	529	621	5
Exchange (gain) loss	2,370	6,148	58
Equity in (earnings) losses of affiliates	(2,788)	(3,762)	(35)
Changes in assets and liabilities:			
(Increase) decrease in notes and accounts receivable	(23,501)	(42,287)	(398)
(Increase) decrease in inventories	10,621	(13,595)	(128)
(Increase) decrease in long-term advance payment	3,180	3,196	30
Increase (decrease) in notes and accounts payable	9,606	12,017	113
Other, net	15,351	(2,256)	(21)
Subtotal	346,522	396,420	3,739
Proceeds from interest and dividends	7,774	11,746	110
Payments of interest	(528)	(599)	(5)
Payments of income taxes	(62,895)	(74,791)	(705)
Net cash provided by operating activities	290,872	332,776	3,139
Cash Flows from Investing Activities:			
(Increase) decrease in time deposits	30,289	(22,649)	(213)
Purchases of securities	(74,001)	(95,000)	(896)
Proceeds from redemption of securities	186,381	50,560	476
Purchases of property, plant and equipment	(134,897)	(162,311)	(1,531)
Proceeds from sales of property, plant and equipment	235	2,390	22
Purchases of intangible fixed assets	(1,377)	(1,407)	(13)
Purchases of investments in securities	(1,613)	(7,516)	(70)
Proceeds from sales of investments in securities	53	26	0
Proceeds from redemption of investments in securities	0	5,000	47
Payments of loans	(481)	(809)	(7)
Proceeds from collection of loans	3,494	1,301	12
Other, net	(6,802)	(7,188)	(67)
Net cash provided by (used for) investing activities	1,281	(237,602)	(2,241)
Cash Flows from Financing Activities:			
Net increase (decrease) in short-term borrowings	520	(114)	(1)
Proceeds from long-term debt	25	2,012	18
Repayments of long-term debt	(212)	(792)	(7)
Purchases of treasury stock	(19)	(30)	(0)
Proceeds from sales of treasury stock	2,979	1,394	13
Cash dividends paid	(48,987)	(53,301)	(502)
Cash dividends paid to non-controlling interests	(615)	(750)	(7)
Other, net	9,110	1,575	14
Net cash used for financing activities	(37,199)	(50,006)	(471)
Effect of Exchange Rate Changes on Cash and Cash Equivalents	(13,584)	1,952	18
Net Increase (Decrease) in Cash and Cash Equivalents	241,369	47,119	444
Cash and Cash Equivalents at Beginning of Year	487,604	733,306	6,917
Increase (Decrease) in Cash and Cash Equivalents Resulting from Changes in Scope of Consolidation	4,332	24	0
Cash and Cash Equivalents at End of Year	¥ 733,306	¥ 780,449	\$ 7,362

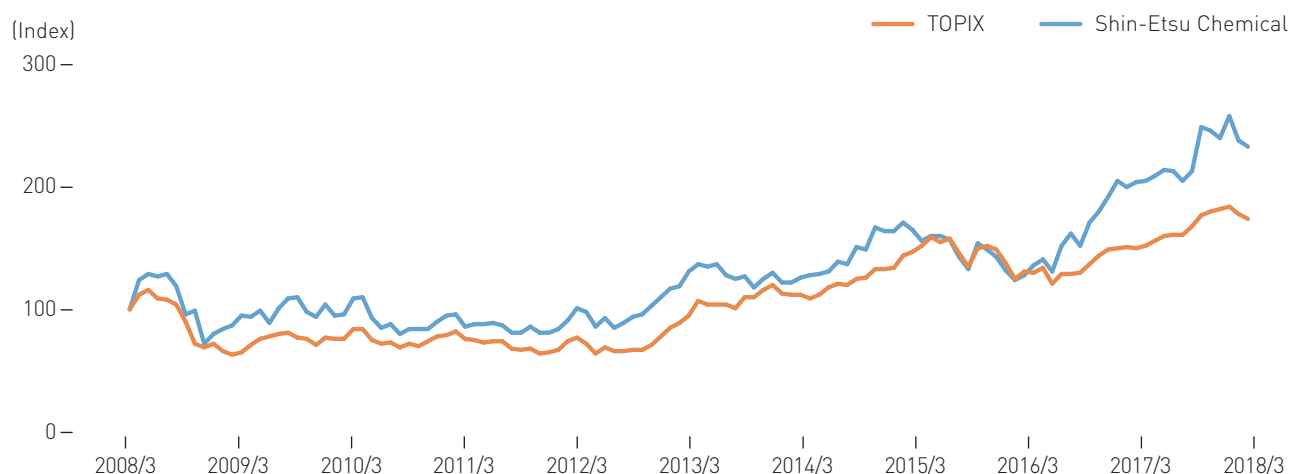
Investor Information

[As of March 31, 2018]

Stock Price Movement



Total Shareholder Return over the Past 10 Years



	Shin-Etsu Chemical	TOPIX
2008	100	100
2009	95	65
2010	109	84
2011	86	76
2012	101	77
2013	131	95
2014	126	112
2015	165	147
2016	128	131
2017	204	150
2018	233	174

Stock index of Shin-Etsu Chemical and TOPIX (March 31, 2008 = 100)

Note: The above chart and the table show the rate of return taking into consideration the dividend as of March 31, 2018, and the stock price when an investment was conducted on March 31, 2008. Investment performance including dividends has been added to the Shin-Etsu Chemical stock price and indexed at 100 as of March 31, 2008. The TSE Stock Price Index (TOPIX), which is a comparative index, also uses indexed data and is indexed in the same way.

Share Data (As of March 31, 2018)

Company Name	Shin-Etsu Chemical Co., Ltd.
Head Office	6-1, Ohtemachi 2-chome, Chiyoda-ku, Tokyo 100-0004, Japan
Date of Establishment	September 16, 1926
Capital	¥119,419 million
Number of Employees	20,155 (Consolidated)
Common Stock	Number of Shares Authorized 1,720,000,000 Number of Shares Issued* 432,106,693 *Includes 6,127,692 treasury shares. Share Unit of Exchange 100 stocks Number of Stockholders 48,492
Stock Listings	Tokyo, Nagoya (Ticker Code: 4063)
Fiscal Year-End	March 31
Ordinary General Meeting of Shareholders	June
Transfer Agent	Mitsubishi UFJ Trust and Banking Corporation
Contact	Public Relations Phone: +81-3-3246-5091 Department Fax: +81-3-3246-5096 e-mail: sec-pr@shinetsu.jp

The Company resolved to cancel the treasury shares of the Company at the Board of Directors Meeting held on April 27, 2018, and implemented a resolution as below.

Type of cancelled shares	Common stock in the Company
Number of cancelled shares	4,500,000 shares
Date of cancellation	May 2, 2018
Total number of issued shares after cancellation	427,606,693 shares

Please visit our Web site:

Corporate Information



<https://www.shinetsu.co.jp/en/>(English)
<https://www.shinetsu.co.jp/cn/>(Chinese)
<https://www.shinetsu.co.jp/>(Japanese)

Financial & IR Information



<https://www.shinetsu.co.jp/en/ir/>(English)
<https://www.shinetsu.co.jp/jp/ir/>(Japanese)

CSR



<https://www.shinetsu.co.jp/en/csr/>(English)
<https://www.shinetsu.co.jp/jp/csr/>(Japanese)

Major Shareholders

(*Rounded down to the nearest 1,000.)

Name of Shareholder	Number of Shares Held (Thousand shares*)	Holding Ratio (%)
The Master Trust Bank of Japan, Ltd. (Trust Account)	48,330	11.3
Japan Trustee Services Bank, Ltd. (Trust Account)	36,160	8.5
Nippon Life Insurance Company	21,933	5.1
Japan Trustee Services Bank, Ltd. (Trust Account 4)	12,269	2.9
The Hachijuni Bank, Ltd.	11,790	2.8
Meiji Yasuda Life Insurance Company	10,687	2.5
JP MORGAN CHASE BANK 380055	8,018	1.9
STATE STREET BANK WEST CLIENT - TREATY 505234	7,193	1.7
Japan Trustee Service Bank, Ltd. (Trust Account 5)	6,664	1.6
GIC PRIVATE LIMITED-C	6,663	1.6

Note: Shin-Etsu Chemical, which owns 5,536,807 treasury shares, is excluded from consideration as a major shareholder as defined above. The holding ratios are computed net of this treasury stock.



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