

From 0 to 1∞
A Colorful World Awaits

INSPIRED

CORPORATE GUIDE

Shiraishi's Businesses Support the Societies and Lifestyles of Tomorrow

OUR WORKS

Shiraishi Group is comprised of 22 companies working together to develop a diversified business. In addition to its overseas operations, the group includes Shiraishi Kogyo Kaisha, Ltd., which focuses on production of precipitated calcium carbonate, Shiraishi Calcium Kaisha, Ltd., which specializes in the trading of chemical products, and Shiraishi Central Laboratories Co., Ltd., which conducts R&D.

The group began its business with white calcium carbonate. From toothpaste and chalk, to paper, agricultural supplies, animal feed, food products, and more, the group has been active in various fields over its 100-year history, changing with people's lifestyles. From our start in calcium carbonate, our path has significantly expanded as we utilize a wide range of materials to support the needs of a globally diversifying society. We are diversifying from our calcium origins to create a more colorful life for people.



Production

▶ P4~6

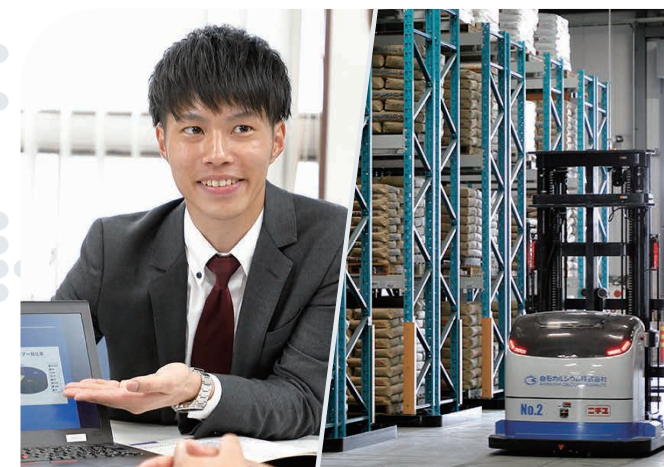
We produce calcium carbonate with the aim of providing added functionality to support the needs of our customers.



Supply & Processing

▶ P7~8

We supply materials to meet customer needs and provide processing into optimal forms in order to improve work environments.



Sale & Distribution

▶ P8~9

Using our domestic and international distribution network, we can offer on-demand delivery of a wide range of materials to your desired location, even at low volumes.

 **SHIRAISHI KOGYO KAISHA, LTD.**

A manufacturing pioneer and long-established specialist in calcium carbonate

Shiraishi-Omya GmbH

 **SHIRAISHI CALCIUM KAISHA, LTD.**

A specialist chemical trading company offering a wide ranging lineup of products

Toyo Fine Chemical Co., Ltd.

Agro Chemitech Kaisha, Ltd.

Hakuunseki Kogyo, Co., Ltd.

Research & Development

▶ P4~6

We offer support for basic research, sample production, and evaluation. We provide solutions through our highly refined nanoscale technologies and extensive know-how.

 **SHIRAISHI CENTRAL LABORATORIES CO., LTD.**

Research body specializing in order made materials

Shiraishi Calcium (Shanghai) International Trading Co., Ltd.
Shiraishi Calcium (Hong Kong) Co., Ltd.
Shiraishi International (Taiwan) Ltd.
Hansuk International Ltd.
Shiraishi Calcium (Thailand) Co., Ltd.

Shiraishi Calcium (Malaysia) Sdn. Bhd.
Shiraishi Calcium (Singapore) Pte., Ltd.
PT. Shiraishi Calcium Indonesia
Shiraishi Calcium (India) Pvt. Ltd.
Shiraishi America Incorporated

Shanghai Tobu Rubber Center Co., Ltd.
Shiraishi Auto Profiles (Thailand) Co., Ltd.

SHIRAISHI GROUP Business Fields

Shiraishi Group services a wide range of industries globally, with a primary focus on automotive materials, industrial materials, lifestyle materials, and materials for food products, agriculture, and health care.

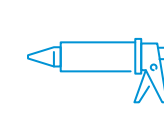
Automotive Materials
▶ P10~11



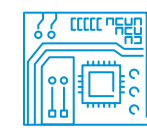
Rubber



Resin



Adhesives & Sealants



Electronic Materials



Paint

Industrial Materials

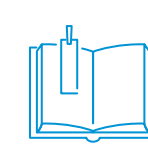
▶ P12~13

Lifestyle Materials

▶ P14~15



Ink



Paper



Footwear



Gloves

Food / Agriculture / Healthcare

▶ P16~17



Food



Agricultural



Stockbreeding



Toothpaste & Biomaterials

R&D and Production

Calcium carbonate has long been used as an extender* and filling agent in a variety of industries and fields. Rather than simply use calcium carbonate to increase volume, given our long familiarity with the material, Shiraishi Group has been able to transform calcium carbonate into a versatile material with added functionality. Everyday we continue with research and production to address particular customer and manufacturing needs.

*Extender: A filler added to increase volume and reduce cost. Mainly used as a powder.

Limestone Procured 100% In-House

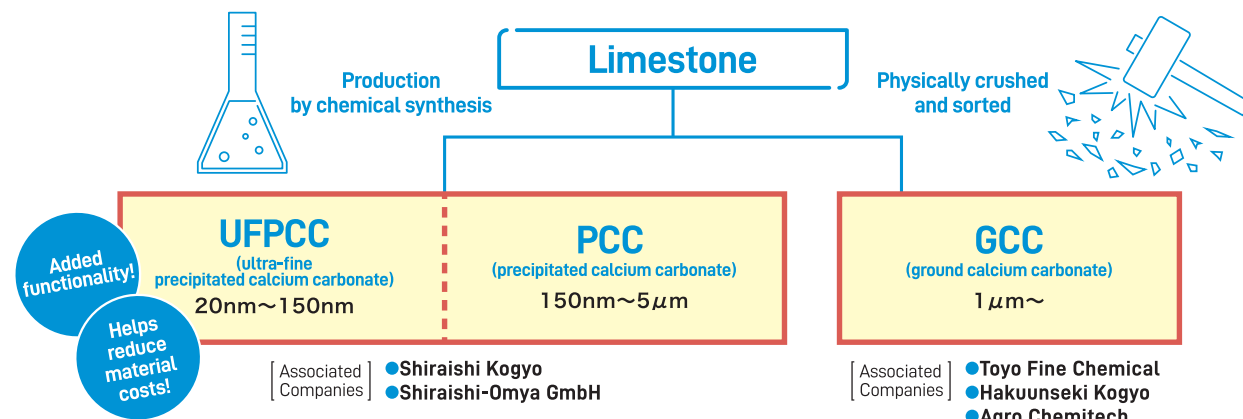
Since its founding, Shiraishi Group has used limestone, an underground resource, as the raw material source for its calcium carbonate. It is one of the few resources that can be sourced within Japan. At current usage rates, the supply is estimated to last for the next 100 years. Further, given its diverse range of usage applications, there is still lots of hidden potential for its use. Today, Shiraishi Group is an industry pioneer embarking on new ventures, including developing ultra-high purity calcium carbonate compounds, and expanding into cutting edge medical fields.



Producing and Handling Both PCC and GCC

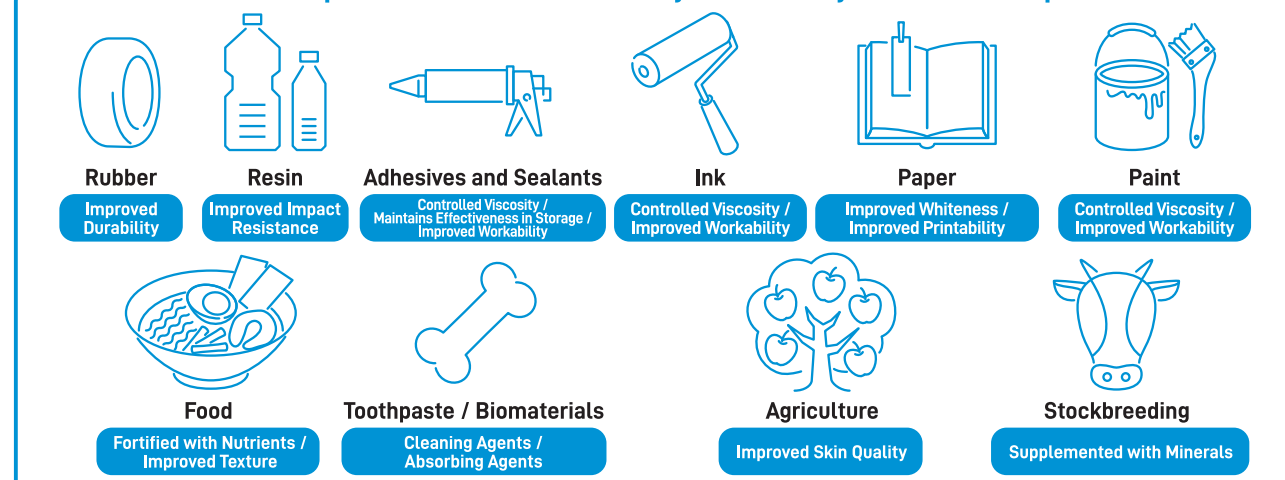
Calcium carbonate production is broadly divided into two types. In addition to GCC (ground calcium carbonate) and PCC (precipitated calcium carbonate), Shiraishi Group uses cutting edge industry technology to produce UFPC (surface treated precipitated calcium carbonate under 150 nm), which is finer than PCC and easy to distribute and dissolve within a base material. The group's strength comes from its ability to use advanced technological capabilities to provide materials that have various added functionalities tailored to the field, with improved versatility, workability, and safety. We produce and handle a variety of different material types to support the customer's usage applications.

*Go to P6 to see the technologies used by Shiraishi Group to produce added functionality.



*1 nanometer (nm)= 0.001 micrometer (μm)= approx. 1/100,000th of a strand of hair, 1 micrometer (μm)= 0.001 millimeter (mm)

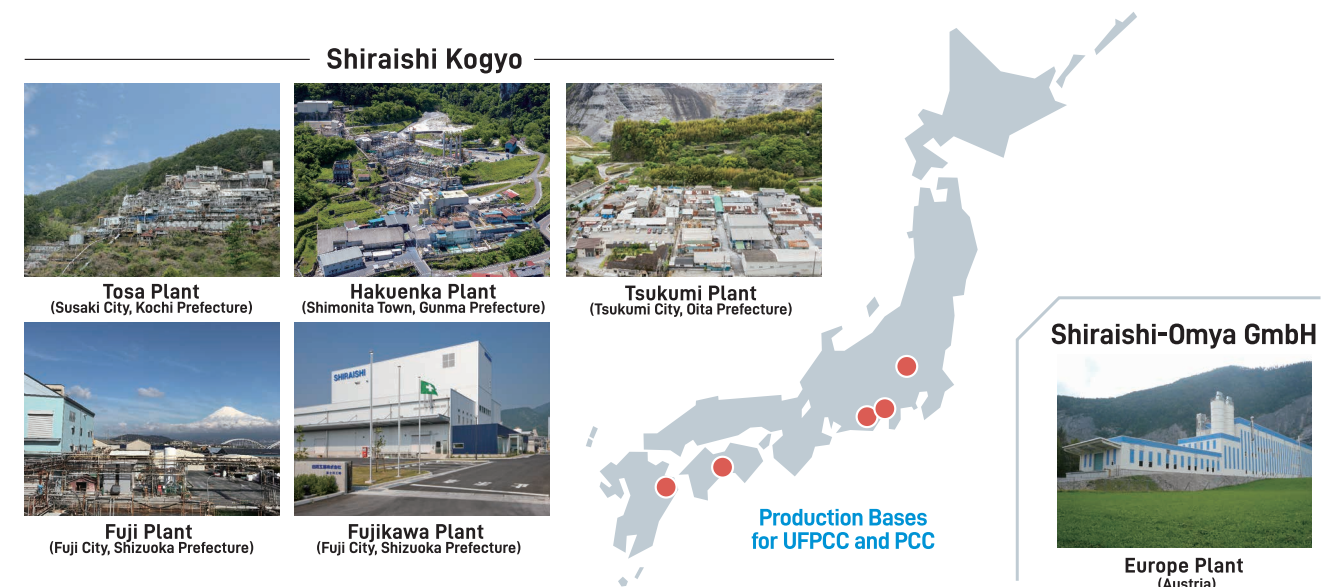
Examples of Added Functionality Provided by Shiraishi Group



*UFPC: Ultra Fine Precipitated Calcium Carbonate, PCC: Precipitated Calcium Carbonate, GCC:Ground Calcium Carbonate

Calcium Carbonate Production Bases in Both Japan and Europe

Situated close to mines, operation at the Hakuenka Plant in Gunma Prefecture and the Tosa Plant in Kochi Prefecture commenced at the time of the company's establishment. Located near a customer's paper factory, the Fuji Plant in Shizuoka Prefecture commenced operations. Tsukumi Plant in Oita Prefecture is capable of producing small volumes of special products. In 2007, the Fujikawa Plant began operating in Shizuoka Prefecture as a producer of synthetic calcium carbonate for food additives. The same year, we merged with Swiss company Omya, with production in Europe commencing in fall 2008. Production takes place in Japan and Europe, with supply offered globally across Asia, the Americas, and Europe.



Thorough Food Safety Process Through Objective Evaluation

Located in Shizuoka Prefecture, Shiraishi Kogyo's Fujikawa Plant produces precipitated calcium carbonate for use in food additives. All allergens and contaminants* are thoroughly eradicated at the plant. To further ensure safety, we have acquired certification from an external organization. We provide thorough traceability of food products.

*Contaminants: Refers to foreign substances in the material.



Zoning, scrubs and other thorough hygiene control measures taken at the Fujikawa Plant.

[Acquired Certification]



FSSC 22000 Certification
A food safety certification system offered by GFSI (Global Food Safety Initiative), a non-profit organization. Based on ISO22000, which adopts HACCP principles, with stricter, more specific requirements.



GMP (Good Manufacturing Practice) Certification for Food Additives

Voluntary standards established by the Japan Food Additives Association with the aim of further improving quality assurance in the food additive industry. The association provides certification on satisfaction of requirement levels for production of food additives and quality control steps.



Halal and Kosher Certification

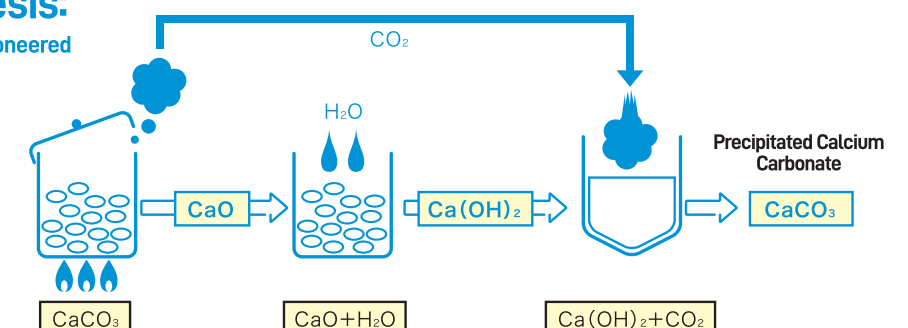
We have also acquired Halal certification (for some products) to provide peace of mind for Muslim consumers, along with Kosher certification to allow for sale in the Jewish community.

Carbonated Gas Synthesis:

A Calcium Carbonate Production Method Pioneered by Shiraishi

A production method in which high-quality domestically sourced limestone is baked, with the resulting quicklime (CaO) hydrated. This forms a stone ash slurry (Ca(OH)₂) that then reacts with the carbon dioxide gas generated from the baked limestone, synthesizing calcium carbonate. (The Fujikawa Plant uses carbon dioxide for use with food products)

*The Shiraishi method for manufacturing precipitated calcium carbonate was invented by Shiraishi Kogyo founder Tsuneji Shiraishi in 1909.



R&D and Production

✓ Shiraishi's Technology Creates Added Functionality to Resolve Customer Issues

To resolve customer issues relating to the product and production process, we first start by getting an understanding of the product's quality requirements. Equipped with broad research capabilities to consider how differences in the shape, size, and surface of Shiraishi-produced powders will impact the quality requirements of the customer's product, Shiraishi Central Laboratories' abundant analysis equipment and technological know-how results in a material with the added functionality to resolve customer issues.

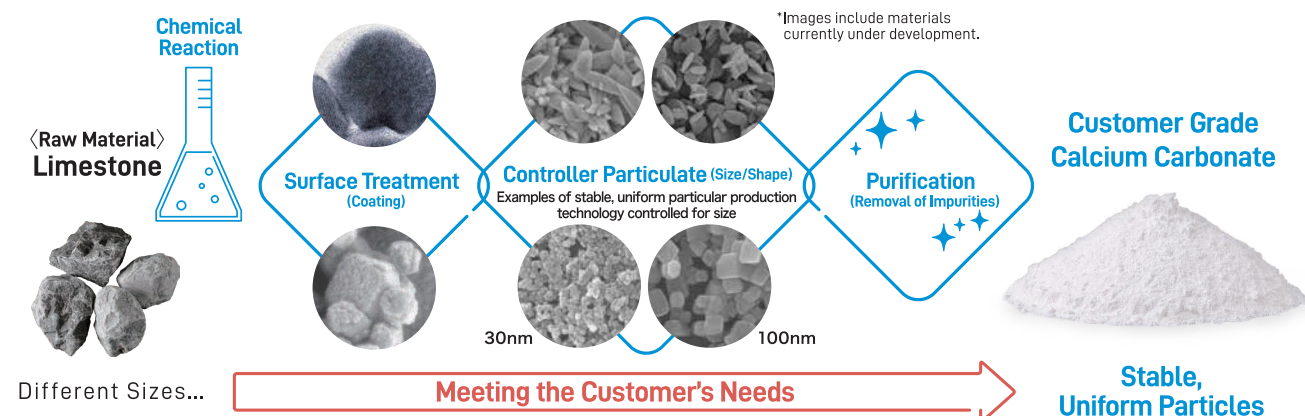
[Associated Company]
● Shiraishi Central Laboratories Co., Ltd.

Basic Research

Development Overview of High Performance Materials Such as UFPCC

Our researchers are specialists in calcium carbonate, carrying out daily research using three core technologies for particulate shape, surface treatment, and purification. One of Shiraishi Group's strengths is its ability to carry out basic calcium carbonate research day and night within the group. This includes simply understanding and observing particle conditions, and determining the conditions and principles required to create various shapes and sizes of calcium carbonate particles. High performance materials such as UFPCC were created through research into particle principles. This environment is what makes it possible for us to continue discovering and producing high performance materials like UFPCC and other added functionality materials made for the future.

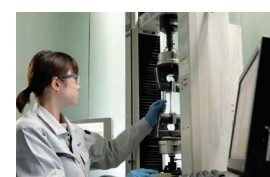
For academic conferences and articles



Applied Research

Capable of Producing and Evaluating Samples within the Group

To support customer needs, we produce a variety of samples with varying shapes, sizes and surface treatments, and offer evaluation and verification of material performance. We are able to produce samples for a wide range of fields. We are also equipped with an open laboratory that is freely available to customers.



Plastic Strength Evaluation (Sample Image)



Producing Test to Evaluate Paint Opacity (Sample Image)

[How Calcium Carbonate Achieves Its Functionality *Selected Examples]

- Particles are surface treated ⇒ If intended for sealant use, viscosity is high, so particles are difficult to separate
- Using large particles ⇒ If used for plastics, particle strength is increased

[Sample Production Fields]

- Automotive Materials (Rubber, Plastic)
- Industrial Materials (Sealants)
- Lifestyle Materials (Paper, Printer Ink)
- Food (Fish Paste / Milk Beverages)

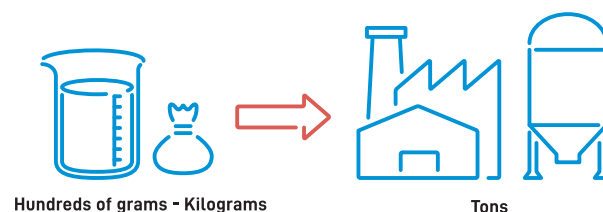
For open laboratory



Product Development

Support Offered from Lab to Machine Level

In addition to the basic and applied research offered above, we can also provide products (at your desired volume) for the lab level and for the customer's actual machine (factory) environment.



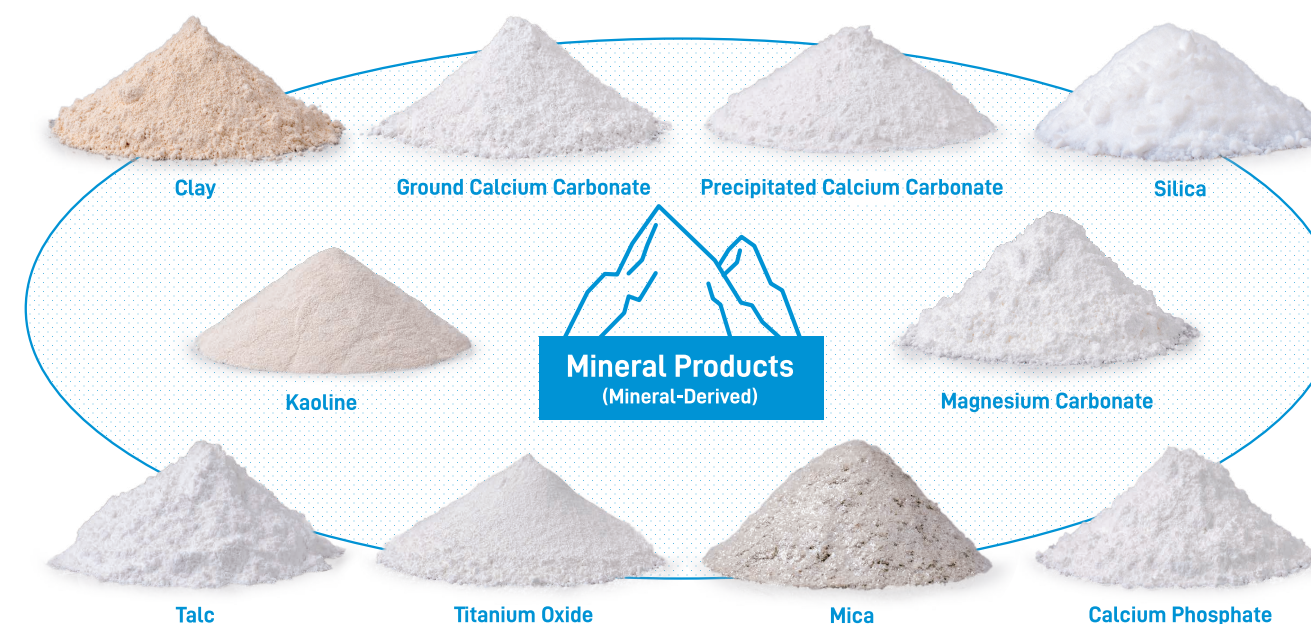
Supply

We can securely supply the customer's required materials from various locations both domestic and abroad. Our wide ranging product lineup is available to support your needs.

✓ Coordination for Purchasing and Procurement at the Optimal Price

We provide total optimized coordination while considering the total cost and function as it relates to the compatibility and configuration of the customer's required materials. With a trading operation in the group, we have a wide ranging product lineup, allowing us to provide support for materials other than calcium carbonate.

<Selected Products>



Polymers



Carbon Black



Fish Paste



Processed Oil



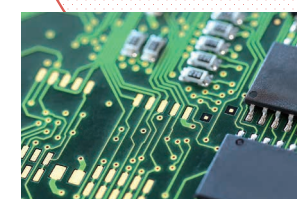
Petrochemical Materials (Petrochemical-Derived)



Raw Food Ingredients (Animal-Derived)



Mirin



Electronic Substrate Materials



Rubber Chemicals / Additives



Sake



Extracted Seasonings

Processing

We process procured material into the form required by the customer. In addition to helping improve the operating environment, we also act as a retainer, measurer and mixer.

▶ Powder Processing

When it comes to surface treatment, we create added value by selecting the optimal surface treatment agent for the customer, and bringing out the maximum performance for each filler while improving dispersibility, robustness, and water retention. We are here to help reduce product defect rate and improve product surface by sorting and classifying the material to remove coarse particles. Delivery is made according to the customer's requested mix and volume. We can also propose various solutions according to your needs, such as improving the operating environment or reducing weigh errors.

[Associated Companies] ●Toyo Fine Chemical Co., Ltd. ●Agro Chemitech Kaisha, Ltd.



▶ Compound / Masterbatch

Dyes, pigments, or additives (inorganic fillers, etc.) are mixed with various thermoplastic resins and processed into pellets. This streamlines storage, weighing, and kneading operations. It also makes it easy to add particular characteristics and functionality to the polymer while ensuring product stability. Processing difficult-to-handle powders and pellets into pellets allows for more efficient weighing and mixing. In addition, it helps improve the operating environment by reducing the amount of dust generated.

For Processing >>



Compound

▶ Rubber Kneading

We offer high quality rubber compounds to support the diversifying and advanced needs of our customers, utilizing a production management system and rubber compound technology to evenly disperse the compound agent/filler within the rubber according to the compound's design.



[Associated Company] ● Shanghai Tobu Rubber Center Co., Ltd.

▶ Rubber Molding

We mold rubber parts for automobiles. Not only do we supply materials, we also oversee the production line in order to optimize product quality and production management.



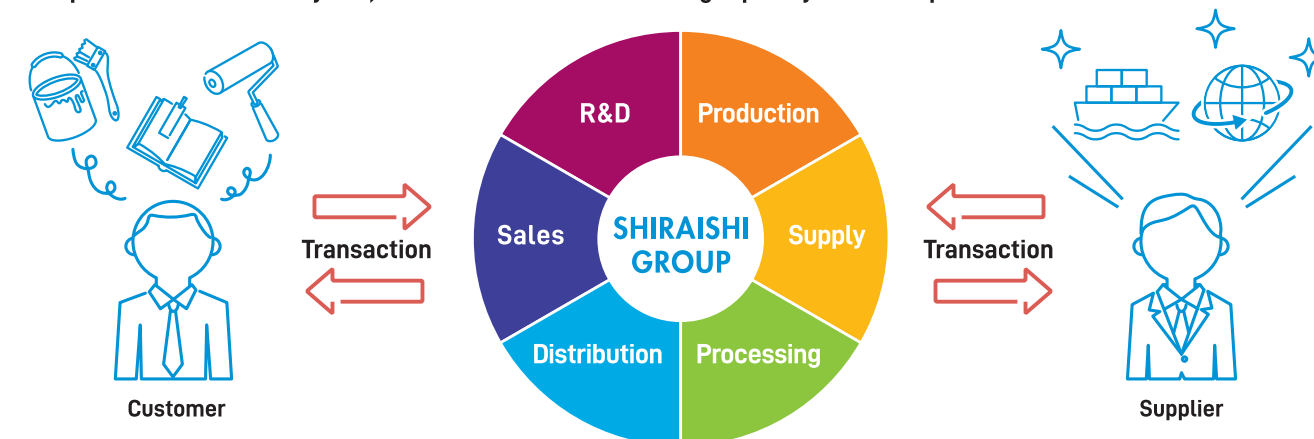
[Associated Company]

● Shiraishi Auto Profiles (Thailand) Co., Ltd.

With lab equipment to provide small-lot prototypes and samples, we are here to handle your project needs.

Sales

With R&D, production, supply, processing, and distribution capabilities, we can offer services perfectly tailored to the customer, taking advantage of our joint function as a specialized dealer of a wide range of raw materials and products used in daily life, and as a manufacturer of high quality in-house products.



Follow-up Support

Following sale, we will provide support for issues and troubles, in addition to providing accurate information on your product's quality.

Distribution

Shiraishi Group's distribution network stretches throughout Japan and overseas, providing the most sensible plans to support the customer's needs.

✓ Stable Provision from Domestic and Overseas Stock Points

Shiraishi Group has numerous stock points (warehouses) both in Japan and overseas. Our inventory sales system collectively manages products and inventory, and is capable of providing direct trade between overseas locations. This prevents defects and ensures swift product delivery to customer's production sites.



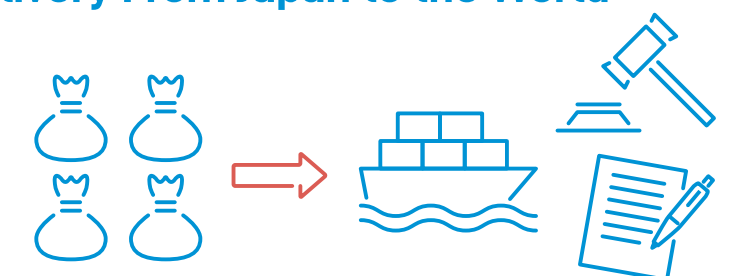
✓ On-Demand Delivery of a Wide Range of Materials to Your Desired Location, Even At Low Volumes

With an expansive product line, Shiraishi Group is able to meet customer needs and provide processing support for a wide range of materials, even at low volumes. We can even meet specific delivery times. Our system is equipped to offer consultations on inventory management and cost.



✓ A One-Stop Partner for Delivery From Japan to the World

We handle complicated and time-consuming overseas shipping procedures, helping customer's expand overseas while complying with import laws. Our distribution capabilities offer direct shipment to the customer's factory at low cost, even for low volume orders.



Automotive Materials

- Industrial Materials
- Lifestyle Materials
- Food, Agriculture and Healthcare Materials

From Material Supply to Processing, Kneading, and Molding, We Support High Functioning Auto Parts

For customers producing automobile parts, in addition to offering rubber molding and kneading services, we handle many different materials to support highly functional parts. In addition to automobile metals and glass, we handle a wide range of parts made from various polymers (weather strips, hoses, anti-vibration rubbers, grommets, door grommets, wipers, glass run channels, door trim, etc.).

Grommets / Door Grommets

A pleated, flexible cover affixed between the doors, body, and engine bay to prevent wires from severing and to protect from the external environment.

Door Glass Run Channels

Affixed to the gap between the glass and window shield frame. Blocks rain and noise, and ensures smooth window operation.

Weather Strip

Affixed to the gaps in the door, window and body. Prevents weather-related leaks while also minimizing noise and vibration within the vehicle.

Body Sealer / Undercoat

Auto body sealer is made from cushioned sealant and applied to door and trunk handles to keep out dust and moisture. Undercoat is applied to the tire well to reduce noise from rocks and anti-freeze, and to improve interior comfort.

Anti-Vibration Rubber (Mounted to Engine and Motor)

Applied to various parts of the vehicle, these rubber components improve ride comfort by decreasing vibrations through absorption.

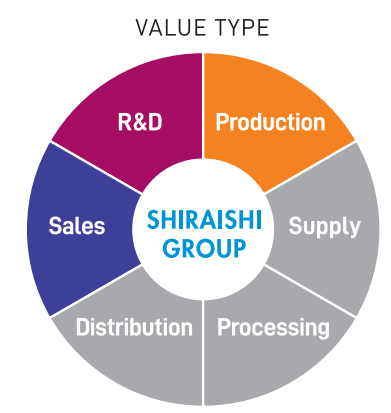
Door Trim

In addition to serving a decorative function, these interior components are applied to the inside of the door to absorb vibrations and seal the interior of the vehicle.

Hose

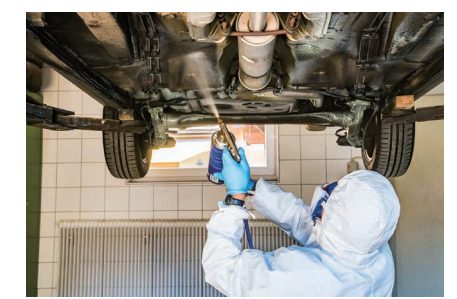
Components supporting basic automotive performance. They need to be light weight, heat resistant, and absorb vibrations.

MAJOR SERVICES



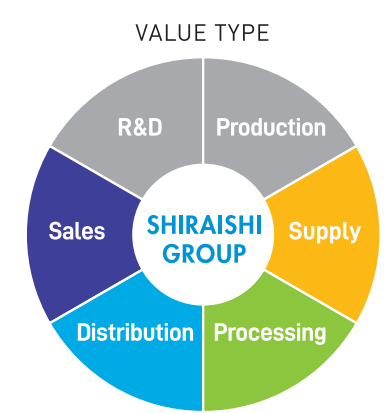
Global UFPCC Business Development for Automobile PVC Sols

Automobile PVC sols require UFPCCs to have high discharge, high spray, and drip-resistant performance capabilities. Our UFPCC controls PVC sol viscosity. At automotive plants, the coating process is carried out by robots who coat the vehicle with PVC sols. If the quality of the UFPCC is unstable, the PVC sol will start to smear, decreasing vehicle production efficiency. To meet the globalizing trends of the auto industry, Shiraishi Kogyo is building a system to offer sales and technology across the globe.



*Photo for illustrative purposes only.

Area Japan / Asia / Europe / America

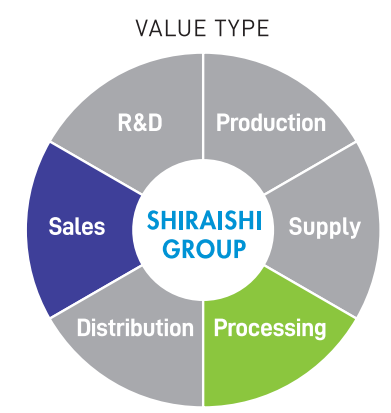


Going Beyond Materials, and Optimizing Quality, Production Control, and Logistics

We handle various polymers used as raw materials in rubbers and resins, along with reinforcing agents, softeners and plasticizers, fillers, additives, modifiers, and more. We also deal with semi-processed products (masterbatch, compounds, base cloth, modified fillers, rubbers, resin parts) and related rubber equipment. We provide solutions to meet the customer's needs while optimizing for quality, production control, and logistics. We also provide the same services overseas, with a primary concentration in South East Asia.



Area Japan / China / Thailand / India / Europe / America



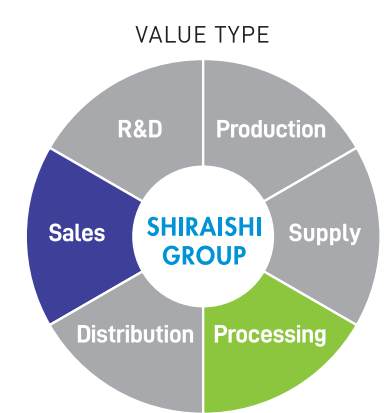
Processing According to Desired Method and Combination

We offer processing to meet various goals and resolve issues, including scaling down product size, reducing weight, improving performance and moldability, reducing defects, and improving operating efficiency. From surface processing, removal of foreign materials, crushing, classification, and mixing, we offer processing methods and combinations to meet your demands. Agro Chemitech's plant in Mie Prefecture provides custom and contract processing, and standard grade products for surface treatment and classification.



Agro Chemitech Mie Plant

Area Japan



Delivering a Wide Range of Materials at the Required Volume and Format

In addition to calcium carbonate, Shiraishi Calcium handles a wide range of materials including reinforcing agents such as fillers, carbon black, softening agents, and chemicals throughout both Japan and overseas including China and Southeast Asia. In Shanghai, in addition to procuring materials, we can also supply compounds and provide rubber kneading in-house. We also mold rubber parts in Thailand, allowing us to make deliveries according to the customer's desired format.



Shanghai Tobu Rubber Center Co., Ltd

Area Japan / China / Thailand / India / Mexico, etc.

For details on our auto products, see the LINE UP page on our official website.

Rubber

Plastic

Automotive Materials
Industrial Materials
 Lifestyle Materials
 Food, Agriculture and
 Healthcare Materials

Providing Accurate Solutions and a Global Supply Network to Help Increase Work Efficiency in Construction and Related Marketplaces

We handle a wide range of materials, including adhesives, sealants, paints, and construction materials. We help improve work efficiency mainly in the construction of homes and high-rise buildings.

〈 Main Customer Industries 〉

Adhesives and Sealants

We provide comprehensive solutions with products that have the required airtightness, earthquake resistance, and durability for homes and high-rise buildings.



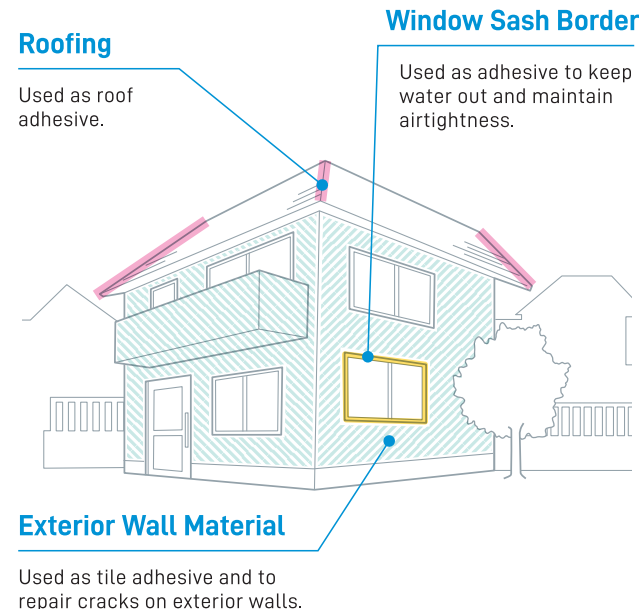
Electronics and Materials for Electronics

We offer materials for the electronics industry with a focus on chemical solutions used in electronic substrate production for smartphones and industrial applications.



Paint

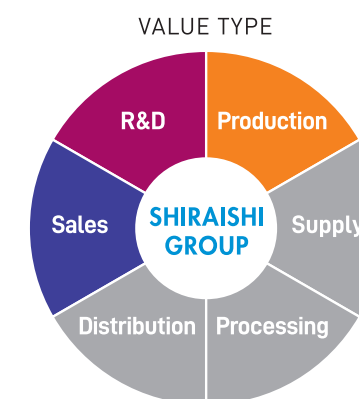
With a focus on precipitated calcium carbonate and other fillers, we respond to each customer's goals and usage applications, providing solutions according to particle size, surface treatment, packaging, and cost.



【Products and Goods Handled】

Purpose	Product Handled
Improve Viscosity	Precipitated Calcium Carbonate, Dry Silica, Mica, Talc
Improve Mechanical Properties	Precipitated Calcium Carbonate, Silane Coupling Agent
Adhesiveness	Silane Coupling Agent
Weather Resistance	UV Absorption Agent, Antioxidants
Fire Resistance	Aluminum Hydroxide, Organic Bromines
Dehydration	Silane Coupling Agent, Calcium Oxides
Thermal Conductivity	Fused Silica
Softeners	Processed Oil
Delustering	Ground Calcium Carbonate, Feldspar
Opacity	Precipitated Calcium Carbonate, Titanium Oxide

MAJOR SERVICES



Globally Supplying UFPCC for Use in Construction Sealant

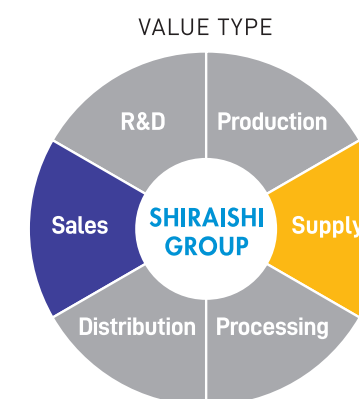
Our highly weather resistant polymers are used in adhesives and sealants to ensure the longevity required in construction materials. Shiraishi Kogyo has successfully developed UFPCC with low-module and high-elongation properties. Shiraishi Kogyo and Shiraishi-Omya GmbH supply UFPCC to adhesive and sealant manufacturers across the globe.



Shiraishi-Omya GmbH (Austria)

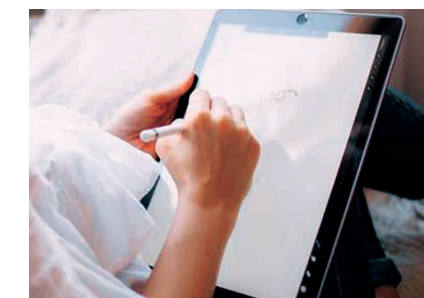
Area Japan / Asia / Europe / America

Industry Adhesive and Sealant Materials



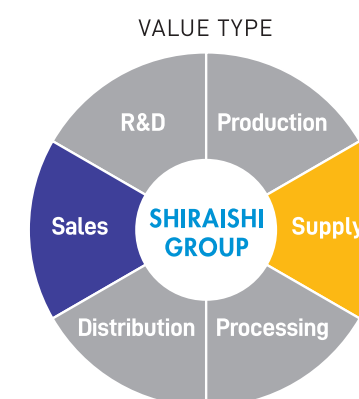
Supplying Printed Substrate Materials in Asia

Asia is seeing growth in the production of printed substrates, which are used in smartphone and tablet devices. With operating locations in Asia equipped with expert know-how, Shiraishi Calcium supplies materials to major printed substrate manufacturers with a focus on surface processing agents used in the manufacturing process.



Area Japan / Vietnam / Korea

Industry Electronics / Materials for Electronics



Problem Solving through Global Procurement

Shiraishi Group handles organic fillers and a variety of other materials for use in paint. In addition to domestic products, our group is involved with supplying materials difficult to obtain within Japan through overseas import. We specialize in our diverse product lineup, with the ability to offer a wide range of solutions, and resolve customer issues by offering safe matte pigments free of silica.



Area Japan / Asia / Europe / America

Industry Paints

For details on our industrial material products, see the LINE UP page on our official website.

Adhesives and Sealants



Electronics



Coatings



Automotive Materials
Industrial Materials
Lifestyle Materials
Food, Agriculture and
Healthcare Materials

Working behind the scenes, we are widely involved in providing support for a comfortable daily life, for both personal and work

Products such as paper, shoes, magazine ink, and and other essential items regularly used in one's life. To achieve a richer, more convenient society, we handle and supply numerous materials on a global scale, each with improved functionality.

〈 Main Customer Industries 〉

Paper

We respond to diversifying needs through a wide ranging product lineup comprised of three major white pigments: precipitated calcium carbonate, ground calcium carbonate, and kaoline.



Printer Ink

We handle various inorganic dyes such as calcium carbonate, which are used as extender pigments to adjust for gloss and fluidity in offset printing, gravure printing, flexography, and UV inks.



Footwear

We handle polymers, fillers, and additives used in sandals and sneakers, including shoes manufactured by globally recognized brands.



Gloves

We handle polymers and additive materials used for gloves, which are seeing growing demand throughout the world, and are widely used for medical, industrial, and domestic applications.



Plastics

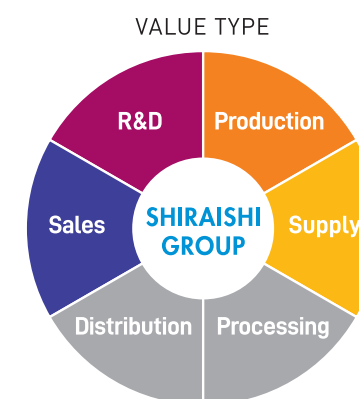
We handle a wide range of monomers, pigments and UV absorption agents used to create the plastic lenses in glasses.



For details on our daily life materials, see [the LINE UP](#) page on our official website.



MAJOR SERVICES



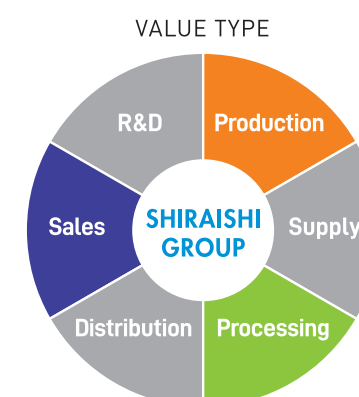
Supplying Three Major White Pigments in Japan, China, and Indonesia

Our group handles three major white pigments (ground calcium carbonate, precipitated calcium carbonate, and kaoline), which are used in the paper pulp industry. We handle kaoline from Georgia, USA-based company Thiele Kaolin and act as their sales agent in Japan, China, and Indonesia, as well as deal in other paper chemical products.

Thiele
TAILORED MINERAL SOLUTIONS

Area Japan / China / Indonesia

Industry Paper



Providing Customized Products Through Filler Processing

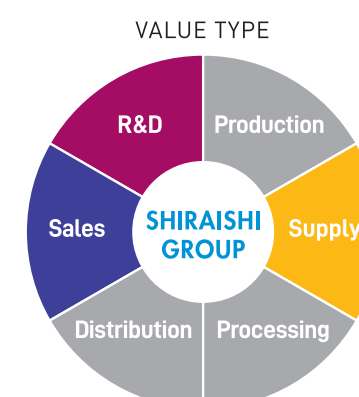
Based in the city of Shobara in Hiroshima Prefecture, Toyo Fine Chemical is responsible for producing Shiraishi Group's high grade, ultra-white ground calcium carbonate, which is sold as a construction material used primarily in wallpaper and pipes. Compared to other companies in the industry, while the company has a small-scale production line, by manufacturing at small-lot volumes, we can offer products with a particulate distribution arranged to the customer's demands. In addition, we carry out processing for various surface treatments, classifications, and blends for ground calcium carbonate and a range of other fillers using classification technology developed in house.



Toyo Fine Chemical

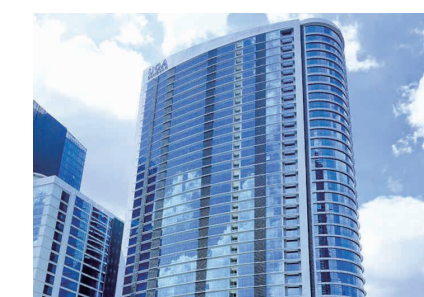
Area Japan

Industry Plastics, Sealants, Paints



Various Development Initiatives for Rubber Gloves

South East Asia is the world's producer of rubber gloves, which are seeing growing demand as global hygiene standards increase each year. Shiraishi Calcium is using its long-established network and know-how to take initiatives in developing synthetic latex, surface treatment agents, and various fillers for rubber gloves.



Shiraishi Calcium (Malaysia)

Area Japan / Malaysia / Indonesia / Thailand

Industry Gloves

Automotive Materials
Industrial Materials
Lifestyle Materials
Food, Agriculture and Healthcare Materials

Since its establishment, Shiraishi Group has supported people's health and food by developing safe and high quality products.

Through know-how and technologies spanning many years, we provide a wide range of high quality and safe materials for upstream/downstream food products and medical fields. In addition to the in-house products made at our dedicated plant, we also conduct import and sales of excellent overseas products.

*See P5 for information on our dedicated food processing plant.

〈 Main Customer Industries 〉

Food

We enrich Japan's dining tables by offering a wide range of processed foods such as mirin, extracted seasonings, and processed seafoods.



Agriculture

We develop calcium carbonate and other various calcium agents to help improve quality farming goods. As a pioneer of magnesium lime fertilizers, we are contributing to Japan's agricultural industry,



Food Additives

We supply calcium carbonate for safe, high quality food additives to fortify instant noodles and processed foods, as well as to modify texture.



Stockbreeding

We develop livestock feed mixtures using calcium carbonate, and import and sell high quality oils, fats, and other feed additives from overseas. Our feed mixtures contribute to the development of Japan's cattle industry.



Toothpaste

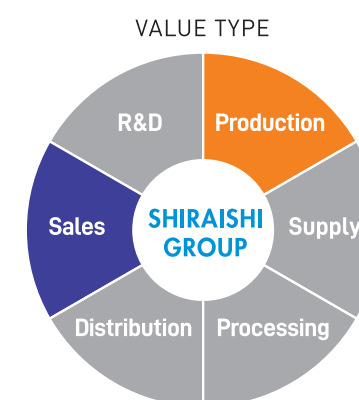
Our safe, high quality calcium carbonate products function as a polishing, cleaning, and whitening agent in healthcare products such as toothpaste.



For details on our food, agricultural and healthcare materials, see the [LINE UP](#) page on our official website.



MAJOR SERVICES



Producing Feed Mixtures to Nourish Dairy Cows and Beef Cattle

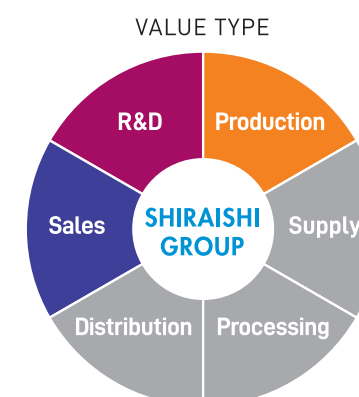
Located in the city of Tomakomai in Hokkaido Prefecture, Agro Chemitech's Hokkaido plant specializes in producing feed mixtures that provide minerals and vitamins to livestock (primarily beef cattle). We produce and sell powdered and pellet-based products for dairy cows and beef cattle using a variety of ingredients comprised primarily of calcium carbonate. We offer a wide selection of products, from general-purpose goods to specific blended products made special for the customer.

Area Japan

Industry Livestock



Agro Chemitech Hokkaido Plant



Highly Functional Calcium Carbonate for Healthcare

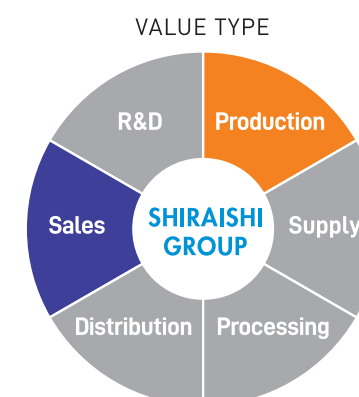
Located in the city of Tsukumi in Oita Prefecture, Tsukumi Plant handles calcium carbonate and calcium phosphate for healthcare, with a particular focus on oral care. These products have added absorption capabilities on top of conventional polishing, cleaning, and whitening capabilities. As a cutting-edge plant operating to high quality and hygienic standards, Shirai Kogyo's food additive plant in Fujikawa works in healthcare.

Area Japan

Industry Toothpaste



Shiraishi Kogyo Tsukumi Plant



Production and Sale of Magnesium Lime Fertilizers for Crops

Hakuunseki Kogyo's plant in the city of Yatsushiro, Kumamoto Prefecture, produces and sells calcium carbonate used for feed mixtures, asphalt for roads, and magnesium lime fertilizer (powdered products that improve dispersion and operability during spraying) to improve soil pH for vegetable crops and fruit orchards.

Area Japan

Industry Agriculture



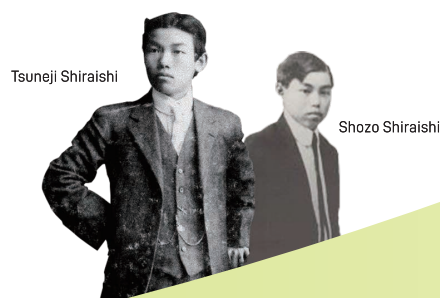
Hakuunseki Kogyo Yatsushiro Plant

Tapping the Unlimited Potential of White Calcium Carbonate Throughout Our 100-Year History

For 100 years, we have proactively worked to develop and pioneer the use of calcium carbonate. The calcium carbonate products our group has worked on are now used in various applications all around us. We have launched in 12 countries, with a network primarily concentrated in Asia. Going forwards, we are expanding to Europe and North America.

Area Product Application

Shiraishi Group Founders



1919.11.23
Shiraishi Kogyo Kaisha, Ltd. Established

1909.09 Japan
Shiraishi Brothers Kaisha Established

1921.09
Kuwana Plant Operations Commence

1927 Natural Rubber
Sale of Hakuenka CC Commences

1911 Toothpaste
Shiraishi Method for manufacturing precipitated Calcium Carbonate Completed



1937.11.30
Shiraishi Shoji Kaisha Ltd. Established

1936.10
Tosa Plant Operations Commence

1932.10
Hakuenka Plant Operations Commence

1938 Food
Sale of Collo-Calso Commences

1935 Stockbreeding
Sale of Livestock Health Serum Colloical Commences



1949.11
Hoshikutsu Kogyo Kaisha, Ltd. (Now Star Computer Service Ltd.) Established

1949 Coloring Agent
Sales Operations Commence at Nikko Shikiryu Kogyo Kaisha, Ltd.

1959.05.25
Shiraishi Calcium Kaisha, Ltd. Established

1958.09
Fuji Plant Operations Commence

1955.08
Amagasaki Plant Operations Commence

1950
Shiraishi Kogyo Kaisha, Ltd. Head Laboratory Established

1952 Organic Rubber Products
Trading with Ouchi Shinko Chemical Industrial Co., Ltd. Commences

1950 GCC
Bihoku Funka Kogyo Co., Ltd. Enters Contract for Exclusive GCC Export/Sales

1952 Synthetic Rubber
Sale of Calmus Commences



1964.06
Taiyo Kagaku Kogyo Kaisha, Ltd. (Now Tsukumi Plant) Joins Group

1961.07
Usui Daiichi Plant Operations Commence

1965 Processed Oils
Special Contract with Idemitsu Kosan Co., Ltd.

1965 Kaolin
Contract as Sales Distributor with Thiele Kaolin Company

1969 Agriculture
Sale of Clef-non Commences

1965 Synthetic Rubber
Sale of Hakuenka O Commences

1961 Synthetic Resin
Sale of Hakuenka CC-R Commences



1975.04 Korea
Hansuk International Ltd. Established

1974.04 Taiwan
Shiraishi International (Taiwan) Ltd. Established

1973.06
Toyo Fine Chemical Co., Ltd. Established

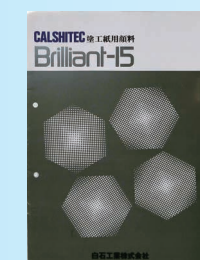
1972.11
Sunland Corporation Established

1972.10
Hakuunseki Kogyo Co., Ltd. Established

1972.10
Shiraishi Central Laboratories Co., Ltd. Established

1970 Carbon Black
Trading Commences with Asahi Carbon Co., Ltd.

1977 Paper
Sale of Brilliant-15 Commences



1984.03 Singapore
Simand Enterprises (PTE.) Ltd. (Shiraishi Calcium (Singapore) Pte., Ltd.) Established

1983.04
Sun Land Funabashi Commences Operations

1989.02
Keiyo Kamaro Corporation Established

1982.11
WGCC Production/Technology Partnership Between Omya, Bihoku Funka Kogyo Co., Ltd., and Shiraishi Calcium Kaisha, Ltd.

1985 Ink
Sale of Hakuenka T-DD Commences

1982 Synthetic Resin
Sale of Vigot Series (10, 15) Commences



1999.02 Vietnam
Ho Chi Minh Office Established

1998.01 Thailand
Shiraishi Calcium (Thailand) Co., Ltd. Established

1996.08 Indonesia
PT. Shiraishi Calcium Indonesia Established

1994.10 China
Shanghai Tobu Rubber Center Co., Ltd. Established

1993.03
Agro Chemitech Kaisha, Ltd. Established

1992.08 Malaysia
Shiraishi (Malaysia) Sdn. Bhd. (Now Shiraishi Calcium (Malaysia) Sdn. Bhd.) Established

1990.08 Philippines
Manila Office Established

1997 Silica
Sibelco Co., Ltd. Import/Sales of Silica Commences

1994 Quartz
Import/Sale of High Purity Quartz (Unimin Corp.) Commences

1995 Sealant
Sale of Viscolite-OS Commences

1993 Food
Sale of Calessen A Commences



2007.12
Fujikawa Plant Operations Commence

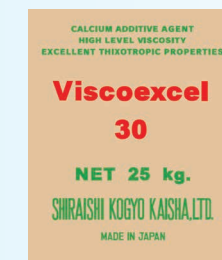
2007 Europe
Shiraishi-Omya GmbH Established

2005.06
Amata Warehouse Completed in Thailand

2003.08
Shiraishi Calcium (Shanghai) International Trading Co., Ltd. Established

2008 Sealants
Sale of Hakuenka (Shiraishi-Omya GmbH Product) Commences

2001 Sealants
Sale of Viscoexcel-30 Commences



2022.01 North America
Shiraishi America Incorporated Established

2018.01 Mexico
Mexico City Office Established

2015.03
Shiraishi Auto Profiles (Thailand) Co., Ltd. Established

2010.09 India
Shiraishi Calcium (India) Pvt. Ltd. Established

2010.07
Shiraishi Calcium (Hong Kong) Co., Ltd. Established

2014 Sealants
Sale of Viscolite-EL20 Commences



1910 1920 1930 1940 1950 1960 1970 1980 1990 2000 2010 2020

Societal Developments

1918 Spanish Flu Epidemic	1920 War Economy Ends (Taisho Bubble)	1931 Electron Microscope Invented by German Ernst Ruska	1941 Attack on Pearl Harbor	1950 Korean War Begins	1960 Organization of Petroleum Exporting Countries (OPEC) Formed	1970 Japan Expo Held	1980 Japan Becomes World's Biggest Car Producer	1990 Economic Bubble Bursts	2001 9/11 Terrorist Attacks in US	2011 Tohoku Earthquake
1923 Great Kanto Earthquake	1926 Showa Era Begins	1939 WWII Begins	1945 Atom Bombs Dropped on Hiroshima and Nagasaki	1957 Japan Synthetic Rubber Established with the Goal of Nationalizing Production of Synthetic Rubber (Now JSR Corporation)	1961 Basic Law on Agriculture Ratified	1973 First Oil Crisis	1985 Plaza Accord	1993 EU Established	2005 Kyoto Protocol Goes Into Effect	2014 Consumption Tax Increased to 8%
1929 Global Depression Begins			1947 Constitution of Japan Ratified	1966 Izanagi Economic Boom Begins	1964 Tokyo Olympics Held	1979 Second Oil Crisis	1986 Economic Bubble Begins	1994 Kansai International Airport	2007 iPhone Launches	2016 Kumamoto Earthquake
			1949 Uniform Exchange Rate of 1USD=360Yen Implemented	1969 First Man on Moon	1968 Japan Has 2nd Largest GNP		1989 Heisei Era Begins	1995 Great Hanshin Earthquake Windows 95 Starts	2008 2008 Financial Crisis	2019 Reiwa Era Begins
								1997 Asian Financial Crisis		

SHIRAISHI GROUP

From 0 to 1∞ A Colorful World Awaits

Starting from 0, our work began with calcium carbonate
and led to the creation of numerous products
over the last 100 years.

Moving forward, we will continue to pursue
the unlimited potential of this material.

Just as white calcium carbonate is transformed into
a color-rich assortment of items to enhance our daily lives,
so too does **the unique character of each individual**
who handles this material
contribute to the colorful vibrance of our group.

The Shiraishi Group has taken the above slogan as
its guiding principle in implementing
its Medium-term Management Plan.

Top Message

For 100 years, we have continuously worked to develop and pioneer usage of calcium carbonate. While you may not be directly aware of its existence, the calcium carbonate products we handle are used in various applications all around us.

The extensiveness of calcium carbonate's usage is arguably due to the availability of technologies that allow us to alter its particulate shape, size, and surface characteristics. This makes it possible to modify calcium carbonate so that it bonds with other materials according to one's needs. We can freely control the product's final characteristics, adjusting for factors such as the robustness of rubber and plastic products or the gloss of paper. Our work is performed on micro-scale surfaces while being supported by macro-scale technologies. Put simply, our work is perhaps best expressed as specializing in surfaces.

Technology does not exist for itself; it exists to help improve people's lives. This is where our company fulfills its role. We create new functionalities by joining objects and technologies atop our foundation in surfacing techniques. At Shiraishi Group, we hope to continue to contribute to society in this capacity going forward.

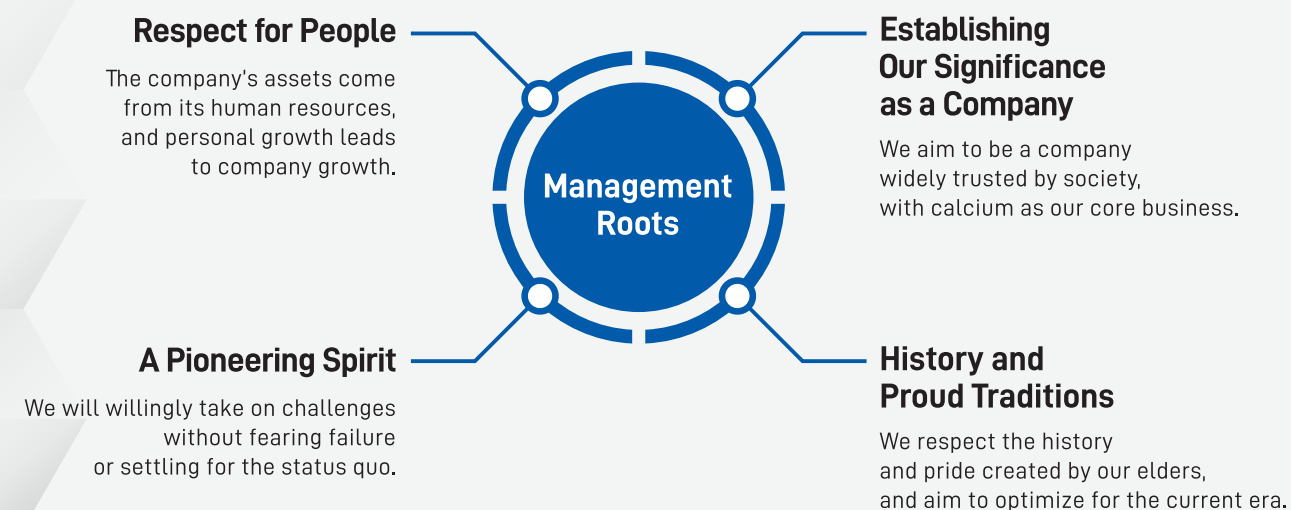
Shiraishi Kogyo Kaisha, Ltd. President

Tsunehiro Shiraishi

Management Roots

Shiraishi Group Philosophy and Vision

Planning the Groundwork for a 100-Year Plan



In addition to production and selling calcium carbonate-focused chemical products, Shiraishi Group also provides diverse services, including a sports and IT solutions business.

Sports Business (Driving Ranges & Tennis Courts)

Sun Land Corporation (Sun Land Mukogawa)

Located in the city of Amagasaki, Hyogo Prefecture, we operate Sun Land Mukogawa, a multi-purpose sports center equipped with a large driving range and a members only tennis club. With 128 spacious tee-off boxes, the large driving range uses real grass, nearly replicating the feel of the golf course. The facility includes full-scale putting and bunker practice areas as well. The site is also replete with eight tennis courts, along with a casual restaurant, a pro shop run by Dunlop, and various training schools.



Official Website (Sun Land Mukogawa)
www.sunland.co.jp



Keiyo Kamaro Corporation (Sun Land Funabashi)

We operate Sun Land Funabashi, a large driving range located in the city of Funabashi, Chiba Prefecture. Replete with a practice fairway reaching 230 yards in length, a putting and bunker practice area to help out on the course, and 92 tee-off boxes. A variety of golf schools are also available.



Official Website (Sun Land Funabashi)
www.sunlandgolf.jp



IT Solutions Business (Lease, Maintenance)

Star Computer Service Ltd.

Sells computer parts and offers infrastructure design and maintenance.



Official Website
www.shiraishi.co.jp/starcs



Please see the official website for the latest information and other details regarding Shiraishi Group.

Shiraishi Group
Official Website



Recruiting Website

