



KANTO DENKA KOGYO



For the latest information, please refer to our website.  
<https://www.kantodenka.co.jp/english/>

*Innovative,  
Development-driven  
Company*



KANTO DENKA KOGYO

# Chemistry with Sincerity for People and the Earth

## PHILOSOPHY

### Management Philosophy

Through the quest for constant corporate growth and acquisition of optimum profits while achieving harmony with nature, Kanto Denka is working with all its shareholders, users and employees to create a successful company and a sustainable society.

To achieve this end, we are endeavoring to ensure our unique technologies and superior services meet the requirements of our users and build a trusted company based on the principles of sincerity, creativity, prompt response and harmony with nature.

## POLICY

### Principles of Conduct

Kanto Denka Kogyo values sincerity, creativity, and trust, and aims to be a company that contributes to society. Guided by six Principles of Conduct that translate our Management Philosophy into specific actions, each of us acts with responsibility and pride.

Put the customer first at all times, and act courteously and with passion.

Observe relevant laws and regulations as well as company regulations, and act openly.

Practice 5S & PDCA, and make a commitment to efforts to develop a safe and people-friendly work environment.

Strive to improve our own abilities while nurturing the next generation, and aim to be professionals at what we do.

Develop products, using creative technology, that our customers can use with a feeling of security.

Proactively work to conserve and act in harmony with nature in order to develop a sustainable society.

*Chemistry  
with integrity.*



## MESSAGE

### Toward a Sustainable Future Pioneered by Our Unique Technologies

Since its founding in 1938, Kanto Denka Kogyo has accumulated and developed specialized knowledge and expertise centered on our core technologies: electrolysis, fluorination, and particle control. In particular, the hydrofluoric acid electrolysis technology that we were the first to successfully establish in Japan has become indispensable for producing advanced materials used in semiconductors and lithium-ion secondary batteries. This technology continues to play a vital role in realizing a digital and sustainable society.

Our goal is to grow into an innovative, development-driven company that, with a stable management foundation, provides a safe work environment with job satisfaction, supports cutting-edge technologies on a global stage with our superior, original products, and contributes to a sustainable society. We will continue to move forward with determination to contribute to society.

We ask for your continued understanding and support.

**Jun'ichi Hasegawa**

President



# HISTORY

History of Kanto Denka Kogyo

Our company was established in 1938 for the purpose of producing metallic magnesium, the raw material for the duralumin used in aircraft.

Since then, we have created cutting-edge chemical products to meet the needs of each era and have advanced with the development of society.



## From the Past to the Future, Weaving Technology

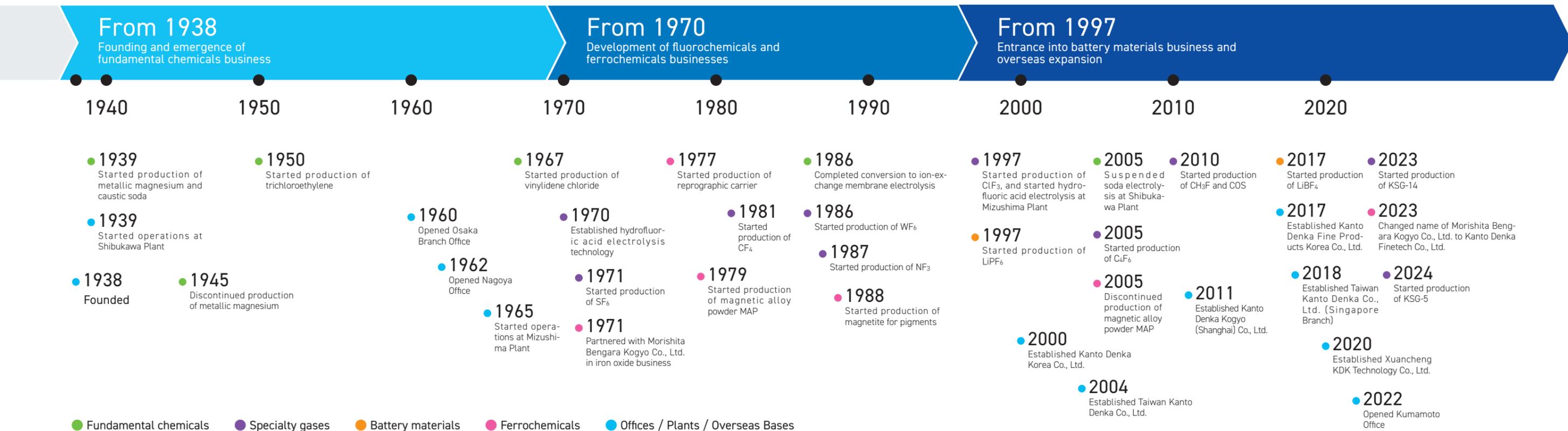
The technologies and trust we have built are the result of our belief in the possibilities of chemistry and our continuous pursuit of new challenges.

This timeline reflects the passion for manufacturing that Kanto Denka Kogyo has cherished since its founding.

Looking back at the past provides us with hints for the future.

We hope that a glance at our history enables to provide a sense of both what Kanto Denka Kogyo has achieved to date and where we are headed.

*Technology & Trust*



# For the Future, What We Can Do Today



With the aim of achieving the Sustainable Development Goals (SDGs) adopted by the United Nations in September 2015, the Group will support the world's most advanced technologies on a global scale with its unique and superior products, and strive for sustainable development as an innovative, development-driven company. At the same time, the Group will earnestly address environmental and human rights issues in order to contribute to a sustainable society with environmental, social and governance (ESG) in mind.

We will build a safe and rewarding work environment, promote the 3Rs (reduce, reuse, recycle) in harmony with nature, reduce the emission of environmentally hazardous substances, promote the reduction of industrial waste and the effective use of resources, increase our corporate value through activities aimed at solving social issues, and contribute to the creation of a sustainable society.

## Initiatives Toward Carbon Neutrality

With the aim of enhancing social value, we are promoting sustainability activities, reducing energy-intensive products, strengthening efforts toward decarbonization, and recycling.

To contribute to the realization of a sustainable society, we have newly set a long-term target of reducing energy-derived greenhouse gas (GHG) emissions (Scope 1 and 2) in FY2030 by 50% compared to FY2013 levels. Looking ahead to 2050, we will accelerate efforts to reduce GHG emissions with the goal of achieving carbon neutrality.



Improve CO<sub>2</sub> emission intensity while achieving growth in the fine chemicals business



Introduction of renewable energy

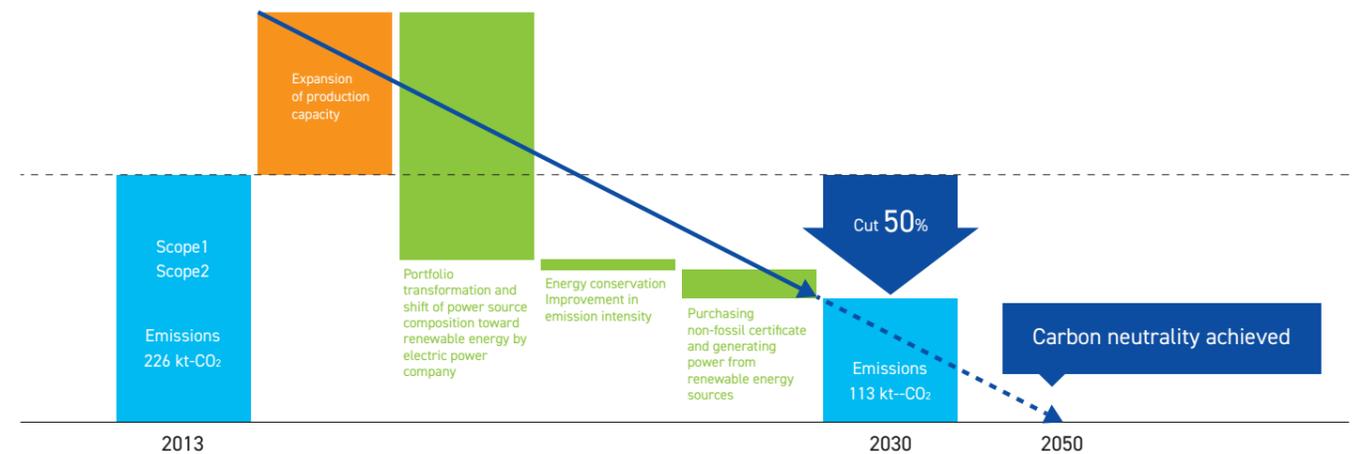


Product mix + productivity improvement, portfolio transformation



Promote the development of environmentally friendly products

## GHG Emissions from Energy Sources Reduction Roadmap



### Combustion Abatement System

The exhaust gases generated from the manufacturing processes of certain products contain substances with a high global warming potential (GWP) as well as environmental pollutants. By introducing the combustion abatement system to detoxify and neutralize these exhaust gases, we have reduced their environmental impact.

With respect to GHG converted to CO<sub>2</sub> equivalents, we have now successfully achieved a reduction of more than 99% compared to FY2013.



### Hydrogen Boiler Facilities

In the electrolysis processes used in the manufacture of our products, hydrogen gas is generated as a by-product. We have introduced hydrogen boiler facilities that use this surplus hydrogen as fuel to supply steam for heating and heat retention within our plants.

This initiative not only promotes energy conservation through the effective use of by-products, but also helps reduce GHG emissions associated with the use of conventional fuels.



### Solar Power Generation Facilities

At the Shibukawa Plant and the Mizushima Plant, we have introduced solar power generation equipment.

By promoting energy conservation and improving emissions intensity while generating and utilizing renewable energy, we are further accelerating the reduction of GHG emissions.

Contribution to a Prosperous Society and Cutting-Edge Technologies

Fundamental Chemicals

Fine Chemicals

Ferrochemicals

Electrolysis  
technology

Fluorination  
technology

Particle  
control  
technology

# BUSINESS SEGMENTS

Kanto Denka Kogyo's three core technologies, which we take pride in worldwide, and the three business fields derived from them form the foundation of our value creation.

From basic raw materials that support industrial infrastructure to specialty materials indispensable for the manufacture of advanced electronic devices, our high-quality chemical products contribute to enriching people's lives across a wide range of fields.

## Field 01

### Fundamental Chemicals



#### Inorganic Products

Liquid caustic soda, hydrochloric acid, sodium hypochlorite, aluminum chloride



#### Organic Products

Trichloroethylene, perchloroethylene, vinylidene chloride, cyclohexanol

## Field 02

### Fine Chemicals



#### Fluorochemicals

Carbon tetrafluoride, monofluoromethane, difluoromethane, trifluoromethane, octafluoropropane, octafluorocyclobutane, hexafluoro-1,3-butadiene, sulfur hexafluoride, silicon tetrafluoride, nitrogen trifluoride, chlorine trifluoride, carbonyl sulfide, tungsten hexafluoride, fluorine gas mixture (F2-mix), KSG-14, KSG-5



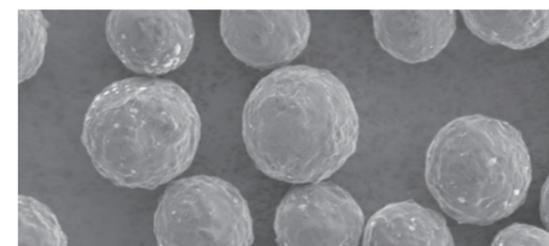
#### Battery Materials

Lithium hexafluorophosphate, lithium tetrafluoroborate, lithium difluorophosphate



## Field 03

### Ferrochemicals



Reprographic carrier, magnetite



# BUSINESS FIELD

## Field 01

### Fundamental Chemicals

#### The starting point for all industries —that is our fundamental chemicals.

One of Kanto Denka Kogyo's founding businesses, the Fundamental Chemicals Division manufactures caustic soda, chlorine, and hydrogen from salt using the ion-exchange membrane electrolysis method. These are used to produce fundamental chemical products (inorganic and organic), which serve as basic industrial raw materials in a wide range of applications.

Among inorganic products, caustic soda and hydrochloric acid are used in water treatment and the manufacture of various chemical products. Sodium hypochlorite is used as a bleaching and disinfecting agent.

Among organic products, nonflammable chlorine-based solvents such as trichloroethylene and perchloroethylene are used for cleaning metal parts and in dry cleaning. Vinylidene chloride is used as a raw material for flame-retardant fibers and food packaging resins.

To support comfortable living and the advancement of industrial activities, we are committed to ensuring a stable supply of these products.



## MAIN PRODUCTS

### Inorganic Products

#### ■ Caustic soda

Used in paper and pulp, soap, detergents, manufacture of various chemical products, water treatment, and food additives

#### ■ Hydrochloric acid

Used in the manufacture of electrolytic aluminum capacitors, metal surface treatment, manufacture of various chemical products, water treatment, and food additives

#### ■ Sodium hypochlorite

Used as a disinfectant, bleaching agent, oxidizing agent, water treatment, and food additives

#### ■ Aluminum chloride

Used as a catalyst in Friedel-Crafts reactions and manufacture of intermediates for pharmaceuticals and agrochemicals

### Organic Products

#### ■ Trichloroethylene

Used for cleaning metal parts, manufacture of hydrofluorocarbons, and manufacture of intermediates for pharmaceuticals and agrochemicals

#### ■ Perchloroethylene

Used for cleaning metal parts, manufacture of hydrofluorocarbons, dry-cleaning solvent, and regeneration of petroleum refining catalysts

#### ■ Vinylidene chloride

Used manufacture of flame-retardant fibers and food packaging resins

#### ■ Cyclohexanol

Used as an organic solvent and manufacture of various organic products



#### Paper and pulp

Caustic soda is used in the manufacture of paper and pulp, and sodium hypochlorite is used in paper bleaching.



#### Water treatment

Caustic soda, hydrochloric acid, and sodium hypochlorite are used in the purification of factory wastewater as well as in water supply and sewage treatment.



#### Metal parts cleaning

Trichloroethylene and perchloroethylene, which have high dissolving power for dirt, are nonflammable and easy to handle, and are used for cleaning metal parts.



#### Hydrofluorocarbons

Trichloroethylene and perchloroethylene are used as raw materials for hydrofluorocarbons, which are refrigerants for air-conditioning equipment.

# BUSINESS FIELD

## Field 02 Fine Chemicals

### Supporting advanced technologies. Driving the future.

Since becoming the first in Japan to establish hydrofluoric acid electrolysis technology in 1970, Kanto Denka Kogyo has cultivated fluorine-related technologies for more than half a century. This has enabled us to carry out all processes in-house, from the refining of fluorine as a raw material to the manufacture of a wide variety of products.

Our specialty gases are manufactured in dedicated plants for each product by directly reacting high-purity fluorine gas with other raw materials, resulting in a diverse product lineup. We are also promoting initiatives such as the introduction of the latest analytical equipment and the establishment of joint development systems with customer manufacturers, thereby meeting a wide range of customer needs.

In addition, we are the only manufacturer in Japan that produces electrolytes and additives essential for lithium-ion secondary batteries. Amid the accelerating global trend toward decarbonization and the shift to EVs, we will continue to contribute to the realization of a sustainable society by leveraging our world-class quality and supply capacity.



## MAIN PRODUCTS

### Specialty gases

#### ■ Carbon tetrafluoride (CF<sub>4</sub>)

Etching/cleaning gas for semiconductor and FPD manufacturing

#### ■ Monofluoromethane (CH<sub>3</sub>F)

Etching gas for semiconductor manufacturing

#### ■ Difluoromethane (CH<sub>2</sub>F<sub>2</sub>)

Etching gas for semiconductor manufacturing

#### ■ Trifluoromethane (CHF<sub>3</sub>)

Etching gas for semiconductor and FPD manufacturing

#### ■ Octafluoropropane (C<sub>3</sub>F<sub>8</sub>)

Cleaning gas for semiconductor manufacturing

#### ■ Octafluorocyclobutane (C<sub>4</sub>F<sub>8</sub>)

Etching/cleaning gas for semiconductor and FPD manufacturing

#### ■ Hexafluoro-1,3-butadiene (C<sub>4</sub>F<sub>6</sub>)

Etching gas for semiconductor manufacturing

#### ■ Sulfur hexafluoride (SF<sub>6</sub>)

Etching gas for semiconductor and FPD manufacturing; insulating gas for electrical equipment

#### ■ Silicon tetrafluoride (SiF<sub>4</sub>)

Film-deposition material containing silicon; wiring material for optical fibers

#### ■ Nitrogen trifluoride (NF<sub>3</sub>)

Cleaning gas for semiconductor and FPD manufacturing

#### ■ Chlorine trifluoride (ClF<sub>3</sub>)

Cleaning gas for semiconductor manufacturing

#### ■ Carbonyl sulfide (COS)

Etching gas for semiconductor manufacturing

#### ■ Tungsten hexafluoride (WF<sub>6</sub>)

ALD/CVD precursor for semiconductor manufacturing

#### ■ Fluorine gas mixture (F<sub>2</sub>-mix)

Cleaning gas for semiconductor manufacturing; for excimer lasers

#### ■ KSG-14

Etching gas for semiconductor manufacturing

#### ■ KSG-5

Etching gas for semiconductor manufacturing

### Battery materials

#### ■ Lithium hexafluorophosphate (LiPF<sub>6</sub>)

Electrolyte for lithium-ion secondary batteries

#### ■ Lithium tetrafluoroborate (LiBF<sub>4</sub>)

Electrolyte/additive for lithium-ion secondary batteries

#### ■ Lithium difluorophosphate (LiPO<sub>2</sub>F<sub>2</sub>)

Additive for lithium-ion secondary batteries



### Semiconductors

Specialty gases are used in various processes such as film formation, etching, and cleaning.



### Flat Panel Display (FPD)

Specialty gases are used in the manufacturing process, and organic fluorine compounds are also used as raw materials.



### Optical fiber

Silicon tetrafluoride is used as a raw material in manufacturing, contributing to performance improvement.



### Large-scale substation equipment

Sulfur hexafluoride, with its excellent insulating properties, is used to achieve more compact equipment.



### Lithium-ion secondary batteries

High-quality electrolytes and additives enable longer life and higher performance in secondary batteries.

# BUSINESS FIELD

## Field 03

### Ferrochemicals

#### Advancing the information society with magnetic technology.

Kanto Denka Kogyo's ferrochemical products make a significant contribution to the information industry, which is paving the way for the next generation. In copiers and printers, which are becoming increasingly multifunctional and high-resolution year by year, the quality of carriers and magnetite that supply toner to photoreceptors is a crucial factor.

Carriers include iron-based, magnetite-based, and ferrite-based types, and we meet a wide range of customer needs by leveraging our proprietary resin coating technology. In addition, we are mindful of environmental considerations by offering a broad lineup of clean EF ferrites and other products that do not contain heavy metals.

Magnetite is also a key raw material for magnetic toner. We provide various types of magnetite with different shapes, particle sizes, and magnetic properties, which are used in many toner products.

Going forward, we will continue to provide optimal products tailored to the diversifying needs of our customers.



### MAIN PRODUCTS

#### Ferrochemical products

##### ■ Reprographic carrier

Used as developer in dry copiers and laser beam printers

##### ■ Magnetite

Used as developer in single-component dry copiers and printers, and as a pigment



#### Kanto Denka Finetech Co., Ltd.

2397, Shijuku-cho, Iga City, Mie 518-0823, Japan

Phone: +81-595-21-2636

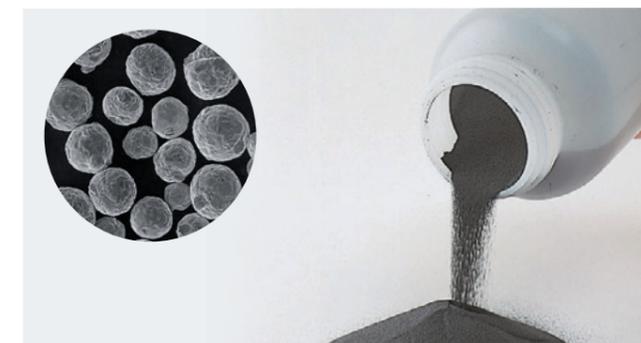
Website <https://www.kdk-finetech.co.jp/> (in Japanese only)

Ferrochemical products are manufactured by our Group company, Kanto Denka Finetech Co., Ltd.



#### Reprographic carrier

Ferrochemical, magnetite, and ferrite carriers are used as developers in various copiers.



#### Environmentally Friendly (EF) carrier

Ferrite carriers that are environmentally friendly and free of heavy metals.



#### Printer

Magnetite is used in toner for printers.

Shibukawa Plant

# FACTORY GUIDE

## Manufacturing at Kanto Denka Kogyo begins in Shibukawa.

As a plant that is trusted by society, we place a first priority on safety and value our interactions with the people and communities around our plant.

Located along the Tone River in Shibukawa City, Gunma Prefecture, the Shibukawa Plant began operations in 1939, the year after the Company was established. Since then, as our mother plant, it has continued to deliver a wide range of products to society.

Currently, the plant manufactures various materials that support advanced technologies, with a focus on specialty gases for semiconductors. It is also one of the world's leading producers of fluorine, a key material for specialty gas production.

By providing a stable supply of high-quality products to numerous customers in Japan and overseas, the plant continues to support industrial development.

Location 1497, Shibukawa, Shibukawa City, Gunma, Japan

Plant area Approx. 138,000 m<sup>2</sup>

Number of employees 326 (as of March 31, 2025)



### Certifications

- ISO 9001/JQA-1009 (certified in October 1995)  
A majority of the products are ISO certified.
- ISO 14001/JQA-EM0438 (certified in May 1999)
- ISO 45001/JQA-OH0087 (registration updated in July 2020)  
OHSAS-compliant management from 2005 to 2020

### Products

#### [ Specialty Gases ]

- Carbon tetrafluoride
- Monofluoromethane
- Difluoromethane
- Trifluoromethane
- Octafluoropropane
- Octafluorocyclobutane
- Sulfur hexafluoride
- Hexafluoro-1,3-butadiene
- Nitrogen trifluoride
- Carbonyl sulfide
- Tungsten hexafluoride
- Fluorine gas mixture (F2-mix)
- KSG-5

# FACTORY GUIDE

From Mizushima to the Future.

Driving innovation through the power of chemistry.

Under the slogan of “building a plant that can be trusted and be proud of,” we will strive to meet the expectations of our stakeholders.

The Mizushima Plant is located in Kurashiki City, Okayama Prefecture, within the Mizushima industrial complex overlooking the Seto Inland Sea.

The plant manufactures fundamental chemicals essential to various industries, battery materials for which further market growth is expected, and high-performance specialty gases with low environmental impact. As global awareness of environmental issues and the importance of economic security continue to rise, the role this plant must play is becoming increasingly significant.

To supply world-class chemicals that can contribute to diverse manufacturing fields, we are focusing on the development of proprietary technologies and production innovation.

Location 4-4-8, Matsue, Kurashiki City, Okayama, Japan

Plant area Approx. 185,000 m<sup>2</sup>

Number of employees 274 (as of March 31, 2025)



## Certifications

- ISO 9001/JQA-2254 (certified in March 1998)  
A majority of the products are ISO certified.
- ISO 14001/JQA-EM0437 (certified in May 1999)
- ISO 45001/JQA-OH0190 (registration updated in January 2020)  
OSHMS-compliant management from 2006 to 2011,  
and OHSAS-compliant management from 2011 to 2020

## Products

### [ Fundamental Chemicals ]

- Caustic soda
- Sodium hypochlorite
- Hydrochloric acid
- Trichloroethylene
- Vinylidene chloride
- Perchloroethylene

### [ Battery Materials ]

- Lithium hexafluorophosphate
- Lithium tetrafluoroborate
- Lithium difluorophosphate

### [ Specialty Gases ]

- Silicon tetrafluoride
- Chlorine trifluoride
- Hexafluoro-1,3-butadiene
- KSG-14

# RESEARCH & DEVELOPMENT

## Fine Chemicals

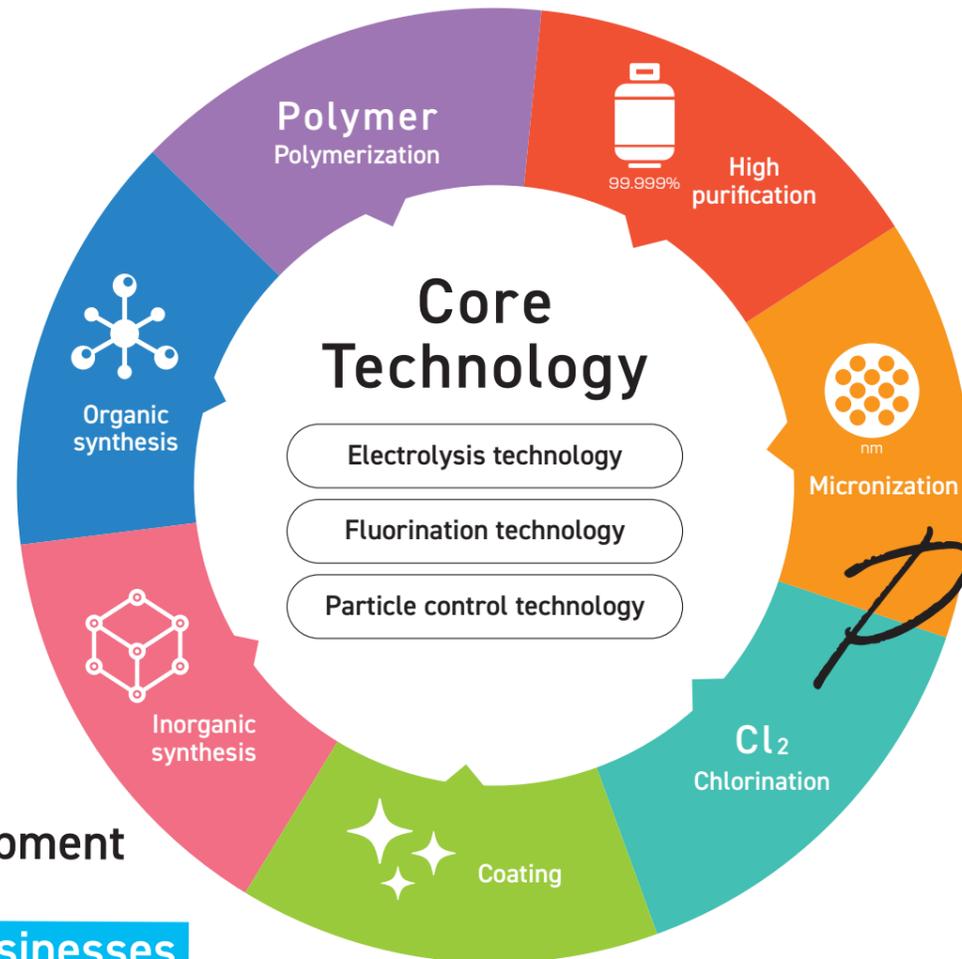
- Specialty gases
- Battery materials

## Ferrochemicals

- Ferrochemical products

## Fundamental Chemicals

- Inorganic / organic products



*Future*



*Present*

Aiming to become a company that develops through environmental friendliness



Research & development fields

### [ Business-linked ]

- Semiconductor materials
- Battery materials
- Carriers

### [ New business ]

- Electronics materials
- PFAS alternative materials (environmentally friendly products)
- Life sciences

## Research & development aimed at creating next-generation businesses

Based on our core technologies of electrolysis, fluorination, and particle control, we have developed and established original technologies related to chlorination, micronization, high purification, organic/inorganic synthesis, coating, polymerization and more.

By integrating the technologies we have developed to date with our manufacturing expertise, we aim to become an innovative, development-driven company that supports the world's most advanced technologies with unique and superior products in fields such as environment and energy, electronics and telecommunications, life sciences and healthcare, and recycling, thereby contributing to the realization of a sustainable society.

### [ R&D Structure ]

Our R&D division at the head office work in collaboration with R&D bases established at or near our domestic and overseas plants to develop new products. For semiconductor materials, the Semiconductor Materials Development Department and the Semiconductor Materials Development & Sales Department, both under the Business Division, promote customer-oriented R&D activities through an integrated system encompassing sales, development, and prototyping.



### Research & Development Center

Engaged in the development of next-generation materials with the aim of creating new businesses that will drive the future of the Company.



### Research & Development Center Shibukawa Branch

Engaged in the development of carriers for copiers and printers, as well as fluorine-based functional materials.



### Research & Development Center Mizushima Branch

Engaged in the development of new materials for secondary batteries, recycling technologies, and high-value-added fluorochemical and chlorine-based products.



### Semiconductor Materials Development Department

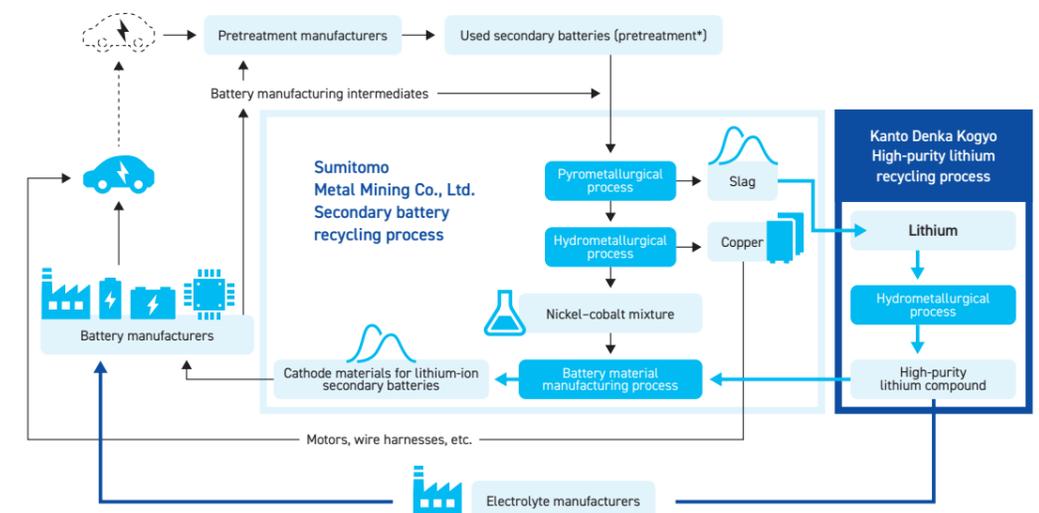
Engaged mainly in the development of specialty gases used in semiconductor manufacturing.

## Development of lithium-ion secondary battery recycling technology

Through joint development with partner companies, Kanto Denka Kogyo became the first in the world to establish technology that recycles lithium compounds at high purity from used lithium-ion secondary batteries for horizontal recycling into battery materials.

Currently, with support from the Green Innovation Fund Projects solicited by the New Energy and Industrial Technology Development Organization (NEDO), we are constructing a recycling plant at the Mizushima Plant.

Going forward, we will continue to promote initiatives aimed at establishing a recycling system for lithium-ion secondary batteries and contribute to the realization of a sustainable, recycling-oriented society.



\* Pretreatment: Use of heat treatment and other methods to detoxify a substance, plus crushing and sorting

# COMPANY PROFILE

DOMESTIC  
BASE

## Headquarters

[ KANTO DENKA KOGYO CO., LTD. ]

Yusen Building 3-2, Marunouchi 2-chome, Chiyoda-ku,  
Tokyo 100-0005, Japan  
Phone: +81-3-4236-8801

## Manufacturing Plants

[ Shibukawa Plant ]

1497, Shibukawa, Shibukawa City,  
Gunma 377-8513, Japan  
Phone: +81-279-23-3211

[ Mizushima Plant ]

4-4-8, Matsue, Kurashiki City,  
Okayama 712-8533, Japan  
Phone: +81-86-455-5231

## Operating Bases

[ Osaka Branch Office ]

Seiwa Umeda Building, 2-12-7, Sonezaki,  
Kita-ku, Osaka City, Osaka 530-0057, Japan  
Phone: +81-6-6366-0681

[ Nagoya Office ]

Nagoya Mitsui Building Main Wing 1-24-30,  
Meiekiminami, Nakamura-ku, Nagoya City,  
Aichi 450-0003, Japan  
Phone: +81-52-571-1371

[ Kumamoto Office ]

5-8-34, Kusunoki, Kita-ku, Kumamoto City,  
Kumamoto 861-8003, Japan  
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## Research & Development Bases

[ Research & Development Center ]

425, Kanai, Shibukawa City,  
Gunma 377-0027, Japan  
Phone: +81-279-23-2712

[ Research & Development Center  
Shibukawa Branch ]

1497, Shibukawa, Shibukawa City,  
Gunma 377-8513, Japan  
Phone: +81-279-22-3533

[ Research & Development Center  
Mizushima Branch ]

4-4-8, Matsue, Kurashiki City,  
Okayama 712-8533, Japan  
Phone: +81-86-455-5234

OVERSEAS  
BASE

## Japan Group Companies

[ Kanden Kosan Co., Ltd. ]

PMO Nihonbashi Mitsukoshi-mae, 3-4-5,  
Nihonbashi Honcho, Chuo-ku,  
Tokyo 103-0023, Japan  
Phone: +81-3-3548-3130

[ Jobi Engineering Co., Ltd. ]

Yamaman Building, 1-12, Kanda Sudacho,  
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Phone: +81-3-3254-7541

[ Kanto Denka Finetech Co., Ltd. ]

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Phone: +81-595-21-2636

[ Kanden Shibukawa Sangyo Co., Ltd. ]

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Gunma 377-8513, Japan  
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[ Kanto Denka Sangyo Co., Ltd. ]

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Gunma 377-8513, Japan  
Phone: +81-279-25-3467

[ Gunma Tekkojo Co., Ltd. ]

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Gunma 377-8513, Japan  
Phone: +81-279-23-1441

[ Kanden Mizushima Sangyo Co., Ltd. ]

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## Overseas Group Companies

[ Kanto Denka Korea Co., Ltd. ]

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Phone: +886-3-577-1575

[ Taiwan Kanto Denka Co., Ltd. (Singapore Branch) ]

11 Beach Road #03-01  
Crasco Building Singapore 189675  
Phone: +65-3157-5974

[ Kanto Denka Kogyo (Shanghai) Co., Ltd. ]

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[ Kanto Denka Fine Products Korea Co., Ltd. ]

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Phone: +82-41-569-4562

[ Xuancheng KDK Technology Co., Ltd. ]

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