

Ensuring Tomorrow's

Materials with

Chemical Innovation



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Ensuring Tomorrow's Materials with Chemical Innovation

Today, we are better than yesterday; tomorrow, we will be even better than today.

Every day, we work to resolve social issues, aiming to create a prosperous future.

We will protect that future and pass it on to future generations.

That way, we will contribute to the sustainable development of society.

jnc

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Since its founding as Sogi Electric Company in 1906, JNC Group has consistently aimed at contributing to social development as a pioneer in the chemical industry.

Our steadfast mission is to create a sustainable society by manufacturing in harmony with the Earth's environment, realizing healthy and affluent lifestyles by addressing customers' challenges and societal needs, and developing talent who can take active roles globally.

We at JNC Group provide joy for tomorrow through our technology, products, and services to realize a sustainable future.

CEO & President

Susumu Asano

We have walked alongside your life over the past 119 years and we will continue to walk ahead so that we can be with you also in the coming century.

1962

~1973

Post-war reconstruction

Resume ammonium fertilizer (ammonium sulfate) production earlier than any other

Manufacturing facilities for octanol, DOP,

domestic company after the war.

and acetate staple completed.

1952~1953

To continue our path, which we have walked alongside you since our founding, into the future, we will contribute to the realization of a sustainable society through JNC Group's technology, products, and services.

1973 ~2005

Entry into petrochemical industry

1963

Manufacturing facilities for polypropylene and polypropylene fibers completed.

1965

Company name changed to

1969

Manufacturing facilities for high-density polyethylene completed. Manufacturing facilities for octanol (oxo process) and DOP

1973

Manufacturing facilities for liquid crystals



production facilities

CHISSO CORPORATION.

completed.

completed.

The next 100 years

2011

2006

Towards a leading chemical company

Manufacturing facilities for organic silicon

Manufacturing facilities for spherical

cellulose gel (CELLUFINE™) completed.

Manufacturing facilities for natural food

preservative (polylysine) completed.

1980

1981

1984

compounds completed.

JNC CORPORATION established



2017

Display Technology Center in Taiwan completed.

2019

Success in Developing Narrowband deep-blue organic light emitting diode.

2024

Renovation constructions of 13 hydroelectric power stations in the Kyushu area completed.



TAKACHIHO Hydroelectric Power Station

Octanol, DOP, and acetate Staple

The Founder Shitagau Noguchi

1906 ~1945

Foundation

1906

Sogi Electric Company founded.

1945

~1960

1908

Start production of calcium cyanamide using atmospheric nitrogen fixation process in Minamata Factory.

1923

Start the world's first manufacture of ammonia using the Casale ammonia synthesis process.

1945

1941

Start polyvinyl chloride production.

PERFORMANCE PRODUCTS

Various displays and semiconductors underpin an information-driven society.

We deliver technologies and products required for the further development and advancement of society.



LIQUID CRYSTAL

Liquid crystals are materials that have both the alignment order of crystals and the fluidity of liquids, and the amount of light passing through them can be controlled by applying an electric current. Therefore, liquid crystals are widely used as display materials for televisions, PC monitors, smartphones, and automobiles.

JNC produces liquid crystals, materials closely connected to your lives, under strict quality control. We are also considering broader applications for these materials, such as light control glasses and sensing devices.



Liquid crystals



Liquid Crystals Div.

Used for various types of displays, including laptop PC displays.

Liquid Crystals Div.

ALIGNMENT MATERIALS

An alignment film is an essential material for controlling the colors (light) displayed on a liquid crystal display. JNC's alignment materials can control the orientation and pre-tilt angle of liquid crystal molecules according to the drive mode of the liquid crystal display. In addition to the conventional rubbing method, we are also developing materials using the non-rubbing method. In particular, for alignment films for In-plane switching mode, we have materials for both rubbing and non-rubbing (optical alignment) processes, achieving high display quality and reliability.



angle and productivity of

OVERCOAT MATERIALS

Overcoat, the protective film for color filters, is effective in preventing the harmful effects of impurities from the color filter, as well as in ensuring a high-quality display by flattening the liquid crystal display substrate.

JNC's overcoat material combines the advantages of both polyimide and epoxy materials, making it possible to create a protective film with high transparency and high heat resistance.





Liquid Crystals Div.

Protect the inside of a display, helping improve durability.

ORGANIC SILICON PRODUCTS

Silicon materials are a focus of attention in recent years as a way to counter PFAS (per- and polyfluoroalkyl substances). JNS produces the following three product families:

Silaplane™

Our Silaplane™ reactive silicones are primarily used in silicon hydrogel contact lenses, functional coating agents, and thermal management materials, as well as other silicone-related applications

Sila-Ace™

Our Sila-Ace™ silane coupling agents are mainly used in semiconductors and device-related components

Silanes

Our silanes are widely used in the field of resin modifiers, electronic materials, and a wide range of other applications



Add oxygen permeability and other functions to contact lenses.



IT Materials Div.

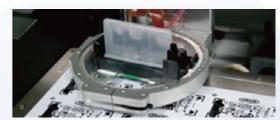
IT Materials Div.

Used as a non-PFAS alternative coating gel for cars.

PRINTED ELECTRONICS

JNC continues to develop and manufacture photo-curable materials and thermosetting polyimide materials in response to customer requests.

Based on the accumulation of such technologies, we can tune ink compositions to suit various printing methods, such as digital dispensing processes including inkjet printing, which has been attracting increased attention as a environmentally friendly, precis, on-demand printing methodology.



Our goal is to develop products that have excellent material

ORGANIC LIGHT EMITTING DIODE (OLED) MATERIALS

OLED displays are widely used in TVs and smartphones, and increasingly used in other devices, such as tablets, laptop PCs, VR headsets, taking advantage of their excellent features such as thin profile, light-weight, fast response, and high contrast.

JNC has contributed to the success and expansion of OLED products through our blue-emitting material technology, which is a key factor in achieving high OLED performance. To meet increasing market demand,

JNC has established a joint venture with South Korea's SK Group and is working to stabilize and expand its business.



Blue-emitting material



SK materials JNC CO., LTD.

Contribute to improving the power usage, color spectra, and lifespan of OLED panels.

AGRI AND LIFE INNOVATION

Our fertilizers and other materials for the agricultural and fishery industries support people's diet. Our life chemical products, fibers, and resin mold products are a part of your everyday life scenes. JNC Group's products always accompany you closely in your life.



FERTILIZERS

We provide high-quality fertilizers, gardening culture soil, and paddy rice culture soil that support stable food production.

Coated fertilizers, our main product, reduce the frequency of fertilizing and the amount of fertilizer by precisely controlling the release of fertilizer ingredients, thereby contributing to labor saving in farm work and reductions in environmental burden.

We have also launched J Coat with reduced plastic on the market, and are carrying out research and development for its future applications of biodegradable resins.



NAEBAKOMAKASE(fertilizer for paddy rice seedling boxes) Ultimate labor-saving technology that omits fertilizing in rice paddies, and expansion to



JCAM AGRI. CO., LTD.

(eco-friendly coated fertilizer) Contain about 40% less plastic compared to prior products.

RESIN MOLD PRODUCTS

We manufacture plastic molded products used in occasions that support people's daily living, such as products for the agriculture and fishery industries, as well as the packaging of food and sanitary materials.

In addition, we manufacture highly processed products, such as resin bags, screens for drying laver, monofilament nets, PP sheets, PET sheets, PP films, and various mold products. We also produce PP and PET sheets using biomass as raw materials.



KEMINORISU



JNC KAIHATSU CO., LTD. OJK CORPORATION

PP sheets: Products with barrier

LIFE CHEMICAL PRODUCTS

Our life chemical products are used for essential purposes, including medicine, beauty, hygiene, and food. These environmentally friendly products also contribute to achieving the SDGs. Our extensive core products include CELLUFINE™, a chromatography medium used for purifying biopharmaceuticals; CELLUFLOW™, cellulose particles used in cosmetic products; Poly-Lysine, a natural food preservative composed of an amino acid; and MC-Media Pad™, a medium for detecting microorganisms.



CELLUFINE™



Life Chemicals Div.

Used for purifying vaccines and antibody drugs.

FILTERS

What sets us apart is our ability to provide products with stable and highly reliable quality and excellent function that you expect from Japanese products, thanks to a system where all processes, from raw material procurement to filter formation, can be completed within JNC Group.

Products of JNC FILTER are used in a wide range of fields, including the chemical industry, electronics and semiconductors, automotive, food, medical care, and cosmetics.



We produce filters combining JNC Group's composite fivers



JNC FILTER CO., LTD.

Our filters are used in the manufacturing of auto parts, paints, batteries, gear oil. and other products.

FIBERS AND NONWOVEN FABRIC PRODUCTS Fibers & Fabrics Div. ES Indorama Ventures CO., LTD.

We were the world's first company to successfully start the commercial production of thermobondable bicomponent fiber widely known as ES FIBER. Currently, ES FIBER is globally sold and produced by ES Indorama Ventures, our joint venture.

JNC also produces air-through nonwoven EsSoft™ with ES FIBER. It has a high bulkiness and soft texture, and is used in a wide range of products essential for daily life, such as disposable diapers, sanitary goods, and filters.





Nonwoven fabric products using ES FIBER are used for sanitary materials, such as disposable diapers, due to their soft texture

SOLVENTS, EMULSION PAINTS, AND ADHESIVES

Organic Chemicals Sales Dept.

Oxo alcohols, such as 2-ethylhexanol and butanol, are used in a wide range of applications, including plasticizers, solvents, emulsion paints, and adhesives, adding vivid colors to various aspects of daily life.





Used in emulsion paints, adhesives, and other products.

PLASTICIZERS

Plastics are used in every aspect of our lives. Plasticizers enhance the flexibility of vinyl chloride resin and other plastic products, contributing to a more convenient and comfortable lifestyle.





CG ESTER CORPORATION

Used in applications such as waterproof paint on roofs and room wallpaper.

ORGANIC SYNTHETIC MATERIALS AND AROMA CHEMICALS Organic Chemicals Sales Dept.

Our organic synthetic raw materials are used in various fields, such as electronic materials, functional resins, pharmaceuticals, and agricultural chemicals. We have developed various aroma chemicals, such as green-note type fragrances, by using our unique organic synthetic technology. They are used in a wide range of fields in our lives, from fragrances for cosmetics, toiletries, and aromatic products to flavors for food, refreshments, and the like.





Used in various fields, including fragrances and agricultural chemicals.

TECHNOLOGY & LICENSING

Since its foundation in 1906, JNC has been a leader in the chemical industry through the development of original technology and its history of R&D in various fields. We continue licensing our sophisticated technologies internationally.

- PVC Process
- ·Vinyl Chloride Monomer (VCM) Removal Process

Licensing Dept.





Polyvinyl chloride resins produced in our factory, which was designed and constructed with high technological capabilities, are used in a wide variety of products, including pipes, films, and wire sheathing.

POLYVINYL FORMAL RESINS (VINYLEC™)

VINYLEC™ is used worldwide as a varnish for enameled wires used in transformer coils. It is also widely used for reducing the weight of automobiles and aircraft, as a special adhesive for structures, for special paints, and for a variety of other purposes. In addition, VINYLEC™-C, developed as a toughening agent for FRP is expected to improve toughness and other properties by adding to thermosetting resin (epoxy resin).

Organic Chemicals Sales Dept.





Used in applications such as carbon fiber used as a sheathing material for electric wires, rackets, etc.

CONTRACT MANUFACTURING

We offer a wide range of services, from small-lot prototyping of products in development and process development to the manufacturing and refining of products. Leveraging our experience in fields such as functional materials, pharmaceuticals, and agrochemical intermediates, we deliver the requested compounds on time.

The Minamata Factory, engaged in contract manufacturing, utilizes carbon-free power generated by our hydropower station as its energy source.

Commercialization Promotion Division





Chromatography facility Low-temperature reacto

GREEN ENERGY, ENGINEERING, AND TRADING

We contribute to the preservation of the Earth's environment by striving to reduce environmental burdens through technological development based on JNC Group's know-how, including the use of renewable energy.



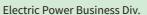
The main source of energy of the Minamata Factory has consistently been electric power from our hydraulic power station since our foundation in 1906. Our Company has carefully maintained and managed the hydraulic power stations, a valuable asset, for over 100 years by taking long-term measures against aging.

In 2024, we completed the renovation construction of all power stations, ensuring safe and stable operations for the next 100 years.



PHOTOVOLTAIC POWER GENERATION

JNC believes that it is important to take advantage of our accumulated knowledge and experiences related to power generation to contribute to reducing environmental burdens. We currently own three photovoltaic power plants.



Electric Power Business Div.



ENGINEERING

Our Plant Engineering business offers comprehensive support in various fields, including chemistry, electronic materials, and fine chemicals. The support encompasses business planning, EPC (engineering, procurement, and construction), and operational guidance, leveraging the characteristics of a user-oriented engineering company.

Our Environment and Energy business offers our independently developed Reactor Bio-System, new product EXT REACTOR™ (externally carried reactor), and electric heating system SECT™ (Skin Electric Current Thermo).

We also promote the use of 3D and digital transformation in design work for the renovation of hydropower stations, the construction of chemical recycling plants that produce oil from used plastics, and other works. This contributes to achieving carbon neutrality.





EXT REACTO

JNC ENGINEERING CO., LTD.

TRADING NISSHO CORPORATION

Nissho Corporation was established in 1971 as a trading company specializing in JNC Group's chemical products. Its operations to solve users' challenges are wide-ranging, from trading to processing chemical products. It has expanded its operations, with bases in Tokyo, Nagoya, and Osaka, Japan; as well as in Bangkok, Thailand; Shanghai, China; and Taipei, Taiwan.





We support your lifestyles by supplying polypropylene resins, polyethylene resins, and other products used in household goods.

JNC's CHALLENGE / **NEW BUSINESS DEVELOPMENT**

To grow sustainably, JNC Group's R&D is continually enhancing our technologies, while acquiring new technologies and advancing existing ones by leveraging external knowledge and collaboration. We work on three priorities for creating new businesses that resolve future social issues.

We will provide liquid crystal materials that can be applied to LC antennas (millimeter wave control element for 5G and 6G high-speed communication) and LC reflectors for 5G communication, for stable use of self-driving control and high-speed communication services.

Silicon substrate materials

(energy and environment)

Silicon materials are used to enhance functions and improve quality in many industries. By providing silicon products for new uses and functions that leverage their characteristics of high durability and low environmental impact, we contribute to waste reduction and environmental sustainability.

With the market expansion of

3 Priorities

01

Business expansion

Create value by growing profits in their uses.

02

JNC

03

Enhance competitive edge

Allocate resources to silicon materials, as well as basic technology and product development in the life chemical field.

Contribute to sustainability

Acquire technologies to create new businesses in the fields of energy and environmental burden reduction.

Life chemical fillers for chromatography

(health)

biopharmaceuticals characterized by high drug efficacy and fewer side effects, the market for purification materials (chromatographic carriers) is also expanding, and requests for them are increasingly sophisticated. We will contribute to maintaining health through the development and provision of new carriers with higher adsorption capacity and flow rate.

Semiconductor process materials

(information and energy)

To innovate the manufacturing of semiconductors, an essential component of people's lives, we are developing filters for higher cleanliness, hybrid materials for reducing the number of processes, and methods for reducing the amount of chemicals used.

Responding to social issues (challenge)

Liquid crystals

for antennas (information)

> To enhance our technological platform with an eye on the future from a medium- to long-term perspective, we are working to create businesses in the fields of IT, environment, resources, and food, while also leveraging open innovation (external resources) from the idea generation phase.

SUSTAINABILITY INITIATIVES

JNC Group will contribute to the sustainable development of society by implementing sustainability activities under the fundamental principles of preserving the Earth's environment, maintaining safety, supplying safe products, upholding corporate ethics, and engaging in honest dialogue with society.

Basic Policy of Sustainability

Ensuring Tomorrow's Materials with Chemical Innovation

We at the JNC Group provide joy for tomorrow through technologies, products, and services to realize a sustainable future.



Environment-friendly business activities (Environment)

■ We engage in business activities that contribute to environmental protection through efforts such as promoting energy savings, renewable energy use, reducing various wastes, environmental burden reduction, and carbon neutral initiatives while working to preserve biodiversity.



Harmony with society (Society)

- We actively engage in activities that contribute to local communities and fulfill our role as a community member.
- We respect the human rights of all people, promote business activities that take diversity into account, and create a rewarding work environment.



Sustainable economic activities (Economy)

- We promote business activities from a long-term perspective, aiming to realize a sustainable society together with our customers.
- We continue to offer safe and secure technologies, products, and services to satisfy our customers.



Maintenance of safety (Safety)

■ With a high level of safety awareness, every employee strives to implement safe and steady operations as well as security and disaster prevention under the slogan "Safety All the Time."



Fair business practices (Compliance and Governance)

- We comply with laws, regulations, and rules and conduct fair business activities with a strong sense of corporate ethics.
- We promote sound corporate management by strengthening the governance system within the organization.



Initiatives for the SDGs

JNC sets forth its policy on initiatives for achieving the Sustainable Development Goals (SDGs) as follows:

JNC recognizes the SDGs to be universal goals, and will contributes to achieving these goals through corporate activities.

Initiatives for Carbon Neutrality

We feel the impact of climate change closely because of extreme weather events, which are attributed to global warming. The effects of greenhouse gases are said to be behind this. According to the AR6 Synthesis Report published by the Intergovernmental Panel on Climate Change (IPCC) in March 2023, global warming can be limited to 1.5 degrees C, leading to risk reductions, only if GHG emissions decline to net zero by 2050.

JNC Group established the JNC Carbon Neutrality Declaration in 2022 and is driving reductions in GHG emissions, aiming to achieve net zero by 2050.



JNC Carbon Neutrality Declaration

JNC Group has released the "JNC Carbon Neutrality Declaration" as part of its initiatives, which also involve its supply chains, to achieve carbon neutrality by 2050.

- JNC Group will make collective efforts toward the goal of net-zero GHG emissions by 2050.
- JNC Group aims to reduce GHG emissions from Scope 1 and Scope 2 by 38% by 2030 (compared to FY2013) as a milestone.
- JNC Group will work with the upstream and downstream supply chain members to reduce GHG emissions from Scope 3.

Initiatives for DEI

JNC Group positions diversity, equity, and inclusion (DEI) as a key pillar of its corporate activities and is working to create a fair and motivating workplace where all individuals can fully demonstrate their abilities. In addition to diversity in gender, age, nationality, disability, and other characteristics, we also respect diversity in less visible attributes, such as values, perspectives, and experiences. The aim is to create an environment where each individual can use their differences as advantages.

We will respect human rights and dignity, and create an environment that fosters mutual understanding and growth. Through these, we will leverage diverse viewpoints as a corporate strength and continue to deliver new value to society.

DEI Promotion Declaration

JNC Group promotes diversity, equity, and inclusion (DEI) to become a company that continues to create added value as "a leading chemical company that aims to contribute to society's progress through superior technology."

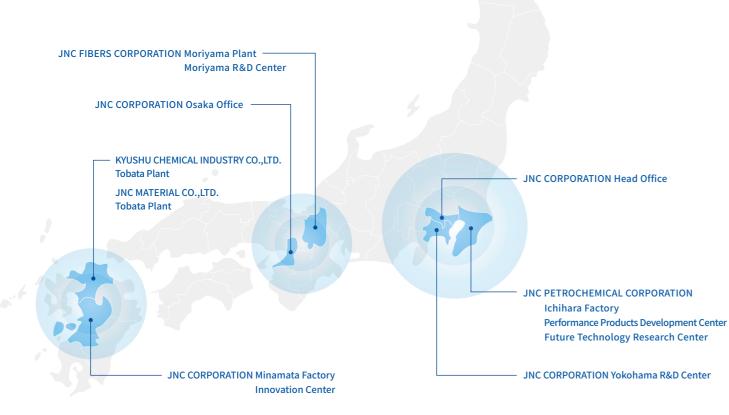
We place diversity at the core of our business management. By respecting human rights and dignity, as well as by creating a fair and motivating environment, we support all individuals in fully demonstrating their abilities.

April 1, 2025 Susumu Asano

Business Location

(Domestic/Overseas)

Domestic



JNC CORPORATION Head Office

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JNC CORPORATION Yokohama R&D Center

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JNC PETROCHEMICAL CORPORATION
Ichihara Factory
Performance Products Development Center
Future Technology Research Center

5-1, Goikaigan, Ichihara, Chiba 290-8551 PHONE. +81-436-21-5111 FAX. +81-436-23-1143

JNC CORPORATION Osaka Office

NAKANOSHIMA DAIBIRU, 3-3-23 Nakanoshima, Kita-ku, Osaka 530-6108 PHONE. +81-6-6441-3253 FAX. +81-6-6441-3279

JNC CORPORATION Minamata Factory/Innovation Center

1-1, Noguchi-cho, Minamata, Kumamoto 867-8501 PHONE. +81-966-63-2116 FAX. +81-966-62-1230

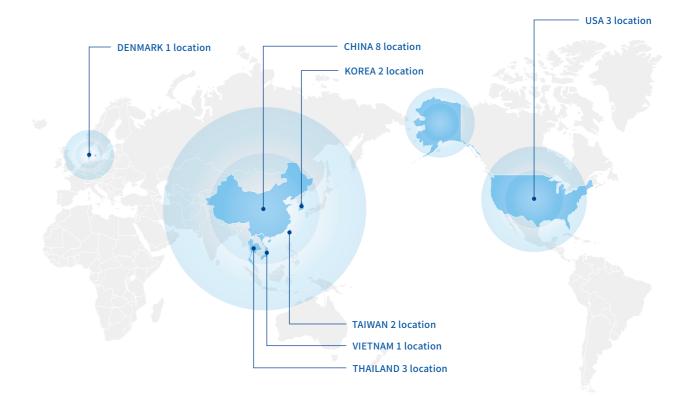
JNC FIBERS CORPORATION Moriyama Plant Moriyama R&D Center

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KYUSHU CHEMICAL INDUSTRY CO.,LTD. Tobata Plant JNC MATERIAL CO.,LTD. Tobata Plant

46-94, Sakinohama, Nakabaru, Tobata-ku, Kitakyushu, Fukuoka 804-0002 PHONE. +81-93-882-2122 FAX. +81-93-882-2127

Overseas



DENMARK

■ ES INDORAMA VENTURES DENMARK APS

USA

- \blacksquare ES INDORAMA VENTURES LP $\hfill \blacksquare$ JNC AMERICA, INC.
- JNC NORTH AMERICAN CORP.

KOREA

- JNC KOREA CO., LTD.
- SK MATERIALS JNC CO., LTD.

TAIWAN

- JNC TAIWAN CO., LTD.
- JCAM AGRI TAIWAN.CO., LTD.

CHINA

- JNC (SHANGHAI) CO., LTD.
- NISSHO (SHANGHAI) CO., LTD.
- JNC FIBERS & FABRICS (SHANGHAI) CO., LTD.
- ES Indorama Ventures(Shanghai)CO.,LTD.
- ES INDORAMA VENTURES (SUZHOU) CO., LTD.
- GUANGZHOU ES FIBER CO., LTD.
- GUANGZHOU JNC FILTER CO., LTD.
- \blacksquare CHANGSHA DALTON & JNC NEW MATERIAL CO., LTD.

VIETNAM

■ JNC FILTER VIETNAM CO., LTD.

THAILAND

- THAI NISSHO TRADING CO., LTD.
- JNC NONWOVENS (THAILAND) CO., LTD.
- ES INDORAMA VENTURES RAYONG CO., LTD.

JNC CORPORATION

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