Realizing KAITEKI.

The world is currently facing a number of problems unfolding on a global scale, including climate change, resource and energy issues, and marine plastic waste. With the capabilities we have accumulated in chemicals, the Mitsubishi Chemical Group will solve these environmental and social issues to realize a KAITEKI future.

We will provide solutions to you and to the world that only we can achieve so that comfort will continue for a long time — not just for the people of today, but for society and the Earth.
Our Focus Markets and Solutions

We are accelerating our growth by solving social and global issues. As social and environmental issues increasingly diversify, our business domains will collaborate in these related fields to create new value and provide comprehensive solutions.
Our Focus Markets and Solutions

Automobiles, Aircraft (Mobility)
Contributing to improving efficiency of resource and energy by working on weight reduction, electrification, and conversion to renewable resources and materials
Major Business Domains
- Advanced Polymers
- High Performance Chemicals
- Advanced Molding & Composites

Packaging, Labels, Films
Contributing to the safe storage and distribution of food, and reduction of food loss, etc., with outstanding barrier performance
Major Business Domains
- Advanced Polymers
- High Performance Films

IT, Electronics, Displays
Contributing to a smart society and more comfortable daily life by providing materials for next-generation displays
Major Business Domains
- Information, Electronics & Display
- Advanced Molding & Composites

Environment, Energy
Contributing to energy conservation, effective use of water resources, improved productivity in the agricultural, fisheries and livestock industries, and mitigation of climate change
Major Business Domains
- Advanced Polymers
- Environment & Living Solutions
- New Energy

Medical, Food, Bio Products
Contributing to resolution of medical issues and health maintenance by providing products such as medical materials, pharmaceutical materials and functional dietary materials, etc.
Major Business Domains
- Advanced Polymers
- High Performance Chemicals
- High Performance Films
- Advanced Molding & Composites
- Environment & Living Solutions

Fundamental Materials
Major Business Domains
- Carbon Chemicals
- Carbon
- MMA
Automobiles, Aircraft (Mobility)

Creating a mobility society that is kind to people and the Earth

- Bio-based Engineering Plastic Interior Materials
- Bio-based Engineering Plastic Exterior Materials
- Carbon Fiber Reinforced Plastics for Structural Materials
- Fireproof Heat Insulation Materials
- Coatings for Headlamps
Everyone can live comfortably in a smart society
Medical, Food, Bio Products

Handing over the healthy life to future generations

- Thermoplastic Elastomers
  Designed for Medical Applications
- Vitamin E
- Pharmaceutical Grade
  Moisture-proof Sheets
- Plant Factory System
- Gas Barrier Tubes
Environment, Energy

Comfortable living continuing forever

Water Purifiers

Water Receiving Tanks

Lithium-Ion Battery Materials

Phosphors for White LED

Groundwater Membrane Filtration System
Keeping food and medicines safe and secure
Accelerating R&D to create value in many different fields

For innovation that meets the true needs of society, the Mitsubishi Chemical Group is further expanding its technology platforms, integrating various core technologies, and accelerating the development of new technologies in emerging fields. We will respond swiftly to market changes through close collaboration among R&D and business domains, and will support mid- and long-term growth strategies, including the creation of new businesses.

Based on “Sustainability,” “Health” and “Comfort,” the strategic criteria for the activities of the Mitsubishi Chemical Holdings Group, we are strengthening R&D activities which demonstrate clear Value Propositions. As a leading chemical company, the Mitsubishi Chemical Group will create and develop businesses with technological, industrial and true social value for a sustainable future.

In a world where digitization and globalization are advancing rapidly and the industrial structure itself is under major transformation, it is important to drive R&D with a strong will to bring differentiated solutions in a competitive landscape. As the knowledge-based economy develops further, major R&D strengths lie in creating cutting-edge primary information and turning it into intellectual capital. In order to accelerate R&D, we will lead the industrial transformation by engaging with external research institutions, while flexibly adapting to the changes in the evolving world.

The Mitsubishi Chemical Group’s R&D continues to aim for the growth and evolution of both individuals and organizations. We contribute to realizing KAITEKI by delivering R&D solutions that respond to the essential needs of customers and society.
Technology Platforms

- Molecular Design Technologies
  - Biotechnology
  - Organic materials
  - Inorganic materials
  - Polymer

- Functional Design Technologies
  - Fiber/Film
  - Composite
  - Molding
  - Formulation
  - Process
  - Materials Characterization

Enabling Technologies
Global Network

Europe, Middle East, Africa
Mitsubishi Chemical Europe GmbH
Germany: Dusseldorf, Wiesbaden

Japan
Mitsubishi Chemical Corporation
Head office

Americas
Mitsubishi Chemical America, Inc.
United States of America: New York, Greer

China
Mitsubishi Chemical (China)Co., Ltd.
China: Shanghai

Asia Pacific
Mitsubishi Chemical (Thailand)Co., Ltd.
Thailand

We are accelerating our global business development by maximizing our technologies, information and trade networks in each region. Our regional headquarters in the Americas, Europe, China and Asia Pacific will support businesses such as marketing, R&D, human resource development and other activities across their respective regions.
Becoming a chemical company that grows sustainably by accurately anticipating social change

Rapid changes are characteristic of the current age. This is precisely why we in the Mitsubishi Chemical Group are firmly committed to providing a diverse range of products. We contribute to solving environmental and social problems, and build sustainable societies in cooperation with our stakeholders. This is what is meant by “realizing KAITEKI” — our vision. By combining our diverse range of products and technologies, we will continue to create value for society and achieve sustained growth in step with the changing world.

To this end, all of our employees do business with a strong commitment to compliance, guided by high ethical standards. In addition to ensuring safe and stable operation, we direct efforts to developing global talent, promoting diversity, and reforming our sales activities. We seek to build strong relationships with our customers as a team encompassing members of the management and those engaged in sales and development. By doing so, we aim to quickly detect social changes, make projections into the future, and propose and provide solutions that meet the needs of the world with more rigor than we have done in the past.
Corporate Overview

Company Name: Mitsubishi Chemical Corporation
Head Office: 1-1, Marunouchi 1-chome, Chiyoda-ku, Tokyo 100-8251, Japan
TEL: +81-3-6748-7300
Date of Foundation: August 31, 1933

Date of Establishment: April 1, 2017
Paid-in Capital: 53,229 million Yen
Business Bases: Japan: 3 branch offices, 9 R&D centers, 15 plants
World: 4 regional headquarters

History of Mitsubishi Chemical

1950s
Shifted to petrochemicals business

1960
Nippon Tei Industries founded

1962
Nihon Kasai Kogyo established

1968
Mitsubishi Petrochemical established

1970s
Strengthened international competitiveness

1990s
Advanced to electronics and pharmaceutical businesses

1990s
Enhanced high performance and high-added-value petrochemical products

2000s
Diversified raw materials including sustainable resources

1968
Nagahama Rubber Industries founded

1982
Renamed to Mitsubishi Plastic Industries

1988
Renamed to Mitsubishi Chemical Industries

1994
Mitsubishi Kasai and Mitsubishi Petrochemical merged to form Mitsubishi Chemical

1988
Improved performance of plastic processed products

1990s
Developed electronics business

1990s
Developed acryl resin business

1950s
Developed into a comprehensive synthetic fiber manufacturer

1960s
Diversified resin business

1970s
Progressed to advanced industrial materials such as carbon fiber

1990s
Developed into a comprehensive polymer chemical manufacturer

2000s
Expanded production bases globally

1998
Integrated with Nitto Chemical Industry

2000
Management integration with Lucite International Group

2017
Launched Mitsubishi Chemical
Basic Materials
Our ethylene plants are located in Ibaraki and Okayama in Japan. We provide olefins such as ethylene and propylene, and aromatics such as benzene and toluene to various derivative product plants and to other customers in and outside the industrial complex. The plants also supply utilities including electricity, steam and gas for all of our production sites.

Polyolefins
Our polyolefin (polyethylene and polypropylene) business offers high quality and high-performance product lineups in a wide range of fields, including automobiles, electrical wiring, medical devices and food packaging, based on our proprietary catalyst and process technologies. We will also expand the business outside Japan as a global supplier of high-performance materials while tapping into the growing global markets, including the automotive industry.

Chemical Derivatives
We mainly produce ethylene derivatives such as ethylene oxide, ethylene glycols and vinyl acetate monomer; propylene derivatives such as acrylic acid ester and octanol; C4 derivatives such as 1,4-butanediol, GBL and NMP; and terephthalic acid which is made from paraxylene.

Coke / Carbon Materials / Carbon Black / Synthetic Rubber
Coke supports the global steel industry, with various products also produced from the tar created by the coke manufacturing process. In addition, carbon black is a material used for products found in daily life such as tires, printing ink and colorants for plastics.

MMA
For MMA (methyl methacrylate), a raw material used in acrylic resins, we are the only company that employs all three major manufacturing methods* and are the largest MMA manufacturer in the world. With a globally established supply system that takes advantage of raw material availability for individual plants and cost competitiveness, we are running the most advanced and sophisticated operations possible.

*Acetone cyanohydrin (ACH) method, C4 direct oxidation process, and new ethylene process (alpha technology)

PMMA (Acrylic Resin)
Acrylic resin composed mainly of MMA is a material with superior transparency, strong weatherability, and formability. We are dealing with acrylic products, acrylic sheets for signs, display shelves and aquarium tanks, molding materials for automotive products, optical components and home electronic parts, and plastic optical fibers.

Acrylonitrile & Derivatives
With AN (Acrylonitrile) and its derivative AAM (Acrylamide), as well as the hydrocyanic acid derivative ACH and rhizinate as its base, we are promoting our business of unique products such as biocatalyst for AAM production and metal catalyst for AN production, which we were the first in the world to successfully industrialize.
Performance Products

Performance Polymers
We provide products that meet customer needs in a wide range of fields, such as thermoplastic elastomers, functional polyolefins, PVC compounds and high gas barrier resins. We aim to be the world’s leading provider of plastic solutions with the keywords “functionality,” “innovativeness” and “mobility.”

Engineering Polymers
We provide engineering plastics such as polycarbonates and polybutylene terephthalate (PBT) in a wide range of fields, including electronics and automotive applications. We will support customers’ innovation by developing more technologies in the domains of monomer and polymer design, compounds, processing and characteristics evaluation.

Sustainable Resources
We provide high-value added products to the automotive industry, as well as for industries including optical components and food packaging. These products include engineering plastics derived from non-depleting raw materials, which have superior transparency, heat resistance and weatherability. Biodegradable polyesters derived from non-depleting raw materials, and biodegradable resins with gas barrier properties. We will provide solutions toward the realization of a circular economy.

Performance Chemicals
We offer solutions to a wide variety of market needs and societal issues, such as mobility, information and electronics, civil engineering, and packaging, thanks to the combination of a wide range of our materials, from acrylic- and epoxy-based functional polymers, to paints, adhesives, additives, chemicals, and our advanced technology platform of molecular design for related materials.

Food Ingredients
We have expanded our business to a wide range of fields from food to pharmaceuticals and cosmetics in product groups such as emulsifiers—represented by our sugar ester which boasts the world’s top market share, vitamin E, shelf-life extenders, fermented products (lactic acid bacteria, enzyme preparations, sweeteners), polysaccharides and natural colorants. Under the key phrases of “safe and secure,” and “tasty and healthy,” we will contribute to world food through our technical strengths and quality assurance that provide various added value and solutions.

Films Materials
We produce bi-axial oriented polyester film with excellent characteristics such as transparency, smoothness, heat resistance, and size stability, used in the production of displays and electronic parts. Through this product and our PVA film, the main component of polarizing plates, with superior dyeability and extensional properties, we are continuing to support the advancement of globally expanding markets and increasing needs, and future industry developments.

Display Materials
Be it materials for LCD and OLED displays, transparent adhesive sheets for touch panel displays, or materials for photocopiers/printers such as organic photoreceptor drums, from digital to analogue, we are contributing to the advancement of displays and global development with our large variety of materials for all forms of “display.”

Semiconductor Materials
We are moving forward in globalizing our high purity materials (high purity reagents, detergents and synthetic silice, etc.), patterning materials (resistive and conductive polymers, etc.), components for semiconductor manufacturing equipment, and precision cleaning service for silicon wafers. We are solving customers’ issues with the power of chemistry, creating new value to better support the semiconductor industry.
Food Packaging / Industrial Films / Medical Films
We offer products with added functionalities, such as gas barrier properties, weatherability, moisture permeability and easy-open technology, applied through an optimal combination of technologies including polymer material design, material processing, surface treatment, and composition. These are used in familiar items such as food packaging, medical packaging, electronic parts, automobiles, and building materials. Our strength in developing technologies that realize optimal solutions to meet a diverse range of needs is trusted and highly evaluated by customers around the world.

Carbon Fibers & Composite Materials
We have realized one of the most integrated product chains in the world, covering everything from PAN-based and pitch-based carbon fibers to intermediates and composite products using fibers as base materials. The business extensively covers fields such as sporting goods, industrial materials, aircraft, automobiles, and environmental products. We have been focusing on the automobile, wind power generation, and pressure vessel markets, which are expected to see an increase in demand in the near future. In addition, we produce our own golf shafts.

Functional Moldings & Composites
We, in addition to our composite technology, leverage material design and molding processing for resins and metals, to provide highly-designed interior and exterior materials, materials for building equipment to create comfortable living environments, logistics materials to support a variety of industries, and our repair and reinforcement materials to protect countries from natural disaster.

High Performance Engineering Plastics
The Mitsubishi Chemical Advanced Materials Group offers engineering plastics as a leading global manufacturer with business sites in 21 countries. It develops business in a wide range of fields such as industrial machinery, automobiles, aircraft, and medical treatment. The Group supports product development for customers including design, material selection, prototype creation, evaluation, and mass production.

Alumina Fibers / Light Metal Products
Alumina fibers manufactured with our proprietary technologies provide outstanding heat insulating properties, heat resistance, wind erosion resistance and cushioning properties. Applications include support mats for automotive exhaust emission treatment system, and heat insulation materials for furnaces used in steelworks. In addition, by fully leveraging our expertise accumulated through aluminum smelting, we are consistently engaged in from casting aluminum alloy to manufacturing and selling processed products.

Fibers & Textile
We take advantage of our unique polymer design and spinning technologies centering on acrylic, acetate, polyester and polypropylene fibers. We develop and provide materials with functions such as moisture-absorbing heat generation, light-absorbing heat generation, antistatic, water absorption, and quick drying. There are a wide range of applications from ladies wear, underwear and sportswear, to bedding, and interior and industrial materials.
Aqua Solutions

We offer optimal solutions through the sale of various materials such as water treatment chemicals, membranes and ion exchange resins, the design and sale of water treatment systems, and process development. We cover the total water treatment process from drinking water—including the “Cleansui” water purifier—to wastewater, aiming to provide solutions to all water-related issues on a worldwide basis.

Separator & Refinement Solutions

We provide refining process systems in a wide range of fields, such as pharmaceuticals, chemicals, and foods, by leveraging our separation and purification technologies accumulated over many years. We also offer a leading-edge dehydration process based on zeolite membranes that can dehydrate and concentrate various solvents including bioethanol, IPA and NMP while conserving energy.

Agribusiness

By providing agricultural materials such as high-performance films with outstanding durability for greenhouses and biodegradable mulch, and plant factories with plant growing systems using both fully artificial light and sunlight, we help to resolve social issues such as waste plastic processing, stable supply of crops and protection of water resources by extremely-water conservation-conscious cultivation, thus contributing to the realization of a sustainable society.

Infrastructure Solutions

We contribute to social infrastructure by providing a wide range of products to create a comfortable living environment, such as building equipment for water receiving tanks and cooling towers, piping materials for under-floor heating and hot/cold water supply, the flat yarn that forms the basis of the various kinds of adhesive tapes that support diverse industries, as well as functional products.

Lithium-ion Battery Materials

We provide formulated electrolyte and anode materials that are key materials for lithium-ion batteries. To respond to the increasingly sophisticated needs of customers, we have developed materials that will contribute to the performance of batteries with improved capacity, power, safety, and durability, and we are providing them via our global supply system. These materials are widely used for automotive batteries with a focus on electric and hybrid vehicles, as well as residential- and industrial-use stationary batteries.

Energy Transduction Materials

We provide phosphors widely used in LED lighting and display devices, and scintillators required for medical diagnostic imaging devices and non-destructive testing equipment. Based on customer requirements, we develop and supply high-intensity, high performance phosphors, and scintillator materials for X-rays that support high resolution and increased speed.