ZEON

Corporate Profile

Zeon makes the Future Today through the Power of Chemistry

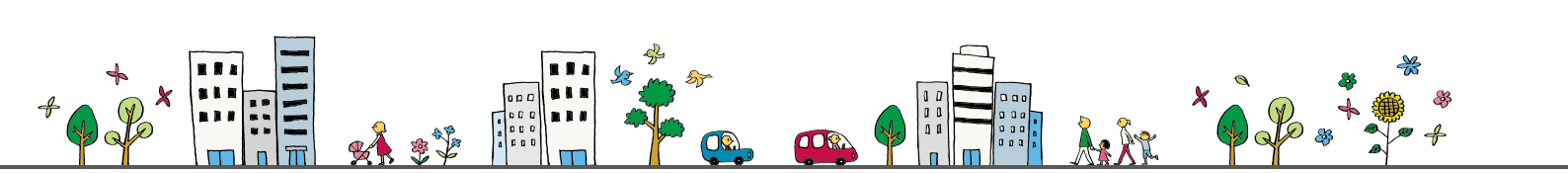
We will continue to meet challenges with unique technologies to advance the sustainable development of society and the global environment.

Kimiaki Tanaka
President and CEO

Zeon has been dramatically transformed over the seventy years since its establishment in 1950. Our corporate philosophy, “Zeon contributes to the preservation of the Earth and the prosperity of the human race,” is intended to express the significance of our company name, which is drawn from the Greek words for Earth (geo) and eternity (eon).

Looking back on the journey of our business, we developed the GPB method, the process for extracting butadiene from C4 fractions as the raw material for synthetic rubbers, and dominated the world as the leader in exporting this technology, thereby establishing Zeon’s technological prowess. Then our development of the GPI method for extracting isoprene made us the only company in the world to comprehensively and effectively use C5 fractions. This in turn led to the creation of countless products, including specialty plastics, optical films, RIM formulations, thermoplastic elastomers and synthetic aromatic chemicals. These two processes carried our business development forward on the twin drivers of Elastomers and Specialty Materials to establish a unique position in the chemical industry. Meanwhile, we continuously faced new challenges to aggressively expand into countries outside Japan. Today we maintain over 40 Group companies with more than 3,000 employees.

In its latest business advance, Zeon became first in the world to mass produce carbon nanotubes (CNTs), a dream material of the future, through joint research with Japan’s National Institute of Advanced Industrial Science and Technology (AIST). We have established a production facility for CNT, which has great potential to become the next major new material, at our Tokuyama Plant in Yamaguchi Prefecture. The history of Zeon is marked by innovation, and we are resolved to continue rising to new challenges as a Group, toward achieving sustainable development for the next generation. We seek your continued support and encouragement.



Corporate Philosophy

Zeon is contributing to the preservation of the Earth and the prosperity of the human race.

ZEON, with its name drawn from words signifying the Earth (geo) and eternity (eon), is committed to responsible stewardship of the global environment as the foundation for human prosperity through the development and application of unique, world-leading technologies.

Zeon CSR Policy

- We will ensure compliance and meet society's needs for safety and security.
- We will contribute to sustainably developing society and protecting the global environment through our corporate activities.
- We will ensure that each and every Zeon person is aware of CSR and acts accordingly.

In 2011 the Zeon Group formulated the SZ-20 management plan targeting 2020, and its Phase I and Phase II have already been implemented. In the latest move, we launched Phase III to take on new challenges under a mid-term management plan covering the period from fiscal 2017 to fiscal 2020. Under our Vision, which forms the backbone of the plan, we will forge on toward realizing our Enterprise Blueprint for 2020.

Vision

Enterprise Blueprint for 2020

Zeon Makes the Future Today through the Power of Chemistry

Key Sense of Value
- Speed
- Dialogue
- Social Contribution

Treasured Characteristics of Zeon
Mutual Trust and Confidence among Zeon Members

Zeon will continue to contribute to the realization of customer dreams and a prosperous society by providing solutions that combine eco-friendly products and services.
To fulfill this mission, we will cherish Zeon's unique, open atmosphere, based on **mutual trust and confidence among Zeon members** and act with the three core values of **speed**, **dialogue**, and **social contribution**.
We will strive to make the Zeon Group a company we can be proud of by acting on these values, ever grateful for customers around the world who recognize and praise the Zeon brand.

Contributing to society with unique technologies based on our philosophy: Create products from materials supplied by mother earth and contribute to the prosperity of humankind.

Corporate Profile

Name Zeon Corporation
Established April 12, 1950
Capital 24.2 billion yen (as of March 31, 2020)
Consolidated Sales 321,966 million yen (FY 2019)
Employees 3,462 (as of March 31, 2020)
Business Descriptions Elastomer Business: synthetic rubbers; synthetic latexes and chemicals
Specialty Materials Business: specialty plastics and optical materials; information materials; energy materials; specialty chemicals and medical products
Others: RIM (reaction injection molding) formulation liquid and products, paints, etc.

Offices and Plants

Head Office Shin Marunouchi Center Building, 1-6-2 Marunouchi, Chiyoda-ku, Tokyo 100-8246, Japan
TEL: +81-3-3216-1772 FAX: +81-3-3216-0501

Osaka Office Mainichi Newspapers Bldg., 3-4-5 Umeda, Kita-ku, Osaka, Osaka Pref. 530-0001 Japan
TEL: +81-6-4797-8220 FAX: +81-6-4797-8225

Nagoya Office Ichigo Fushimi Bldg., 1-18-24 Nishiki, Naka-ku, Nagoya, Aichi 460-0003, Japan
TEL: +81-52-209-9145 FAX: +81-52-209-9147

Takaoka Plant 630 Ogino, Takaoka-shi, Toyama 933-8516, Japan
TEL: +81-766-21-0252 FAX: +81-766-23-7265

Kawasaki Plant 1-2-1 Yako, Kawasaki-ku, Kawasaki, Kanagawa 210-9507, Japan
TEL: +81-44-276-3700 FAX: +81-44-276-3701

Tokuyama Plant 2-1 Nachi-cho, Shunan-shi, Yamaguchi 745-0023, Japan
TEL: +81-834-21-8501 FAX: +81-834-21-8793

Mizushima Plant 2767-1 Kojima Shionasu Aza Niihama, Kurashiki-shi, Okayama 711-8511, Japan
TEL: +81-86-475-0021 FAX: +81-86-475-1169

R&D Center 1-2-1 Yako, Kawasaki-ku, Kawasaki, Kanagawa 210-9507, Japan
TEL: +81-44-276-3721 FAX: +81-44-276-3720


Head office

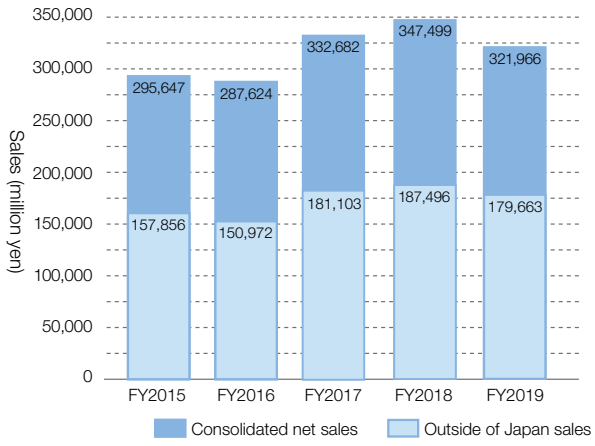
R&D Center

Stock Listing Tokyo
Shareholders 9,284 (as of March 31, 2020)

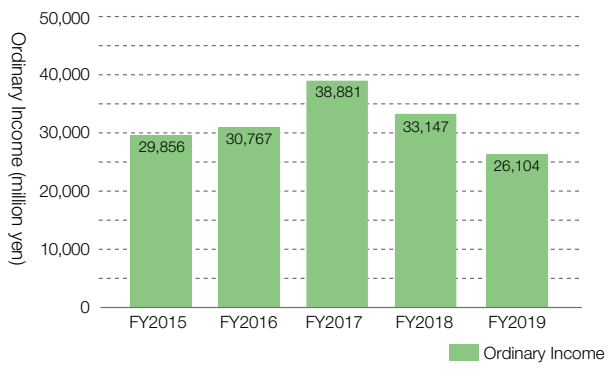
Major Shareholders	Number of shares held	Percentage of ownership
The Yokohama Rubber Co., Ltd.	22,682	10.38
The Master Trust Bank of Japan, Ltd. (Trust Account)	10,922	5.00
Japan Trustee Services Bank, Ltd. (Trust Account)	9,806	4.49
Mizuho Bank, Ltd.	9,600	4.39
National Mutual Insurance Federation of Agricultural	7,700	3.52
Asahi Mutual Life Insurance Company	7,679	3.51
Asahi Kasei Corporation	6,438	2.95
BNY GCM CLIENT ACCOUNT JPRD AC ISG(FE-AC)	5,921	2.71
The Norinchukin Bank	4,000	1.83
Zeon Corporation Client Stock Ownership Association	3,783	1.73

Note: Treasury stocks (18,515 thousand shares) are not included in the above list.

Consolidated Net Sales and Outside of Japan Sales



Ordinary Income



History

1950s

1950	**Apr.**	The Japanese Geon Co., Ltd. founded to manufacture and sell plastics with starting capital of 5 million yen. Head Office set up within Nippon Light Metal Co., Ltd. (7-3 Ginza Nishi, Chuo-ku, Tokyo).
1951	**Jan.**	Technical assistance contract for the manufacture of polyvinyl chloride resins (PVC) concluded with BF Goodrich Chemicals Co. of the U.S.A.
1952	**Apr.**	PVC production began at Kanbara Plant (Shizuoka Pref.).
1953	**Sep.**	Technological Research Laboratory opens.
1956	**Nov.**	PVC production began at Takaoka Plant (Toyama Pref.).
1959	**Jul.**	Production of Japan's first synthetic rubbers began at Kawasaki Plant (Kanagawa Pref.). Central Research Laboratory opens.

1960s

1961	**Sep.**	Listed on the Tokyo Stock Exchange. Listed on the Osaka and Nagoya Stock Exchanges in October.
1965	**Jun.**	Head Office moves to 2-6-1 Marunouchi, Chiyoda-ku, Tokyo.
	Aug.	Butadiene and SBR production using the GPB Process (Zeon's proprietary technology for extracting butadiene) began at Tokuyama Plant (Yamaguchi Pref.).
1967	**Mar.**	Kanbara Plant closed.
1969	**Aug.**	PVC production began at Mizushima Plant (Okayama Pref.).

1970s

1970	**Sep.**	All stock of The Japanese Geon held by BF Goodrich Chemical Co. of the U.S.A. transferred to Japanese interest.
1971	**Nov.**	English company name changed to Nippon Zeon Co., Ltd. GPI (Zeon's proprietary technology for extracting Isoprene) facility completed in Mizushima Plant and production of IR begin at the plant.
1973	**Au**	C5 hydrocarbon resin production began at Mizushima Plant.
1978	**Feb.**	Production of NBR began at Tokuyama Plant.

1980s

1980	**Apr.**	Synthetic aromatic chemicals production began at Mizushima Plant.
1982	**Jul.**	Electronic materials business launched.
1984	**Apr.**	Production of Zetpol® (hydrogenated NBR) began at Takaoka Plant.
1985	**Nov.**	Entire company awarded Deming Prize for TQC.
	Dec.	Production of thermoplastic elastomer SIS began at Mizushima Plant.
1986	**Mar.**	Production of polymerized toner began at Kawasaki Plant.
	Aug.	Solution-polymerized SBR production began at Tokuyama Plant.
1989	**Mar.**	Nitrile rubber operations of BP Chemical Ltd. in U.K. purchased.
	Sep.	RIM products business launched.
	Oct.	Specialty rubber business of BF Goodrich Chemicals Co. of the U.S.A. purchased.

1990s

1990	**Feb.**	Company becomes first enterprise in the world to receive approval to manufacture ventricular-assist devices.
	Oct.	A comprehensive medical equipment plant completed within the Takaoka Plant.
	Nov.	ZEONEX® (COP, cyclo-olefin polymer) plant completed within the Mizushima Plant.
1994	**Jul.**	Environmental materials business launched in its entirety.
	Oct.	Takaoka and Tokuyama Plants acquire ISO 9002 certification. (Kawasaki and Mizushima Plants acquire certification in 1995.) Combined septic tank production facility completed at Mizushima Plant.
1995	**Jul.**	PVC business via transfer to Shin Dai-ichi Vinyl Corporation spun-off.
1998	**Jun.**	Construction of C5 hydrocarbon resin plant of Zeon Chemicals (Thailand) Co., Ltd. completed.
	Sep.	Sales of ZEONOR® (COP), started.
	Nov.	Takaoka Plant acquires ISO 14001 certification. (Tokuyama, Mizushima, and Kawasaki Plants acquire certification in 1999.)
	Dec.	Production facility for ZEORORA® completed at Takaoka Plant. NBR business from DSM Copolymer of the U.S.A. purchased.
1999	**Sep.**	Specialty rubber business from the Goodyear Tire & Rubber Company of the U.S.A. purchased.

2000s

2000	**Mar.**	PVC production at Mizushima Plant discontinued. Company withdraws from vinyl chloride business.
	Jul.	Company logo changed and English company name changed to Zeon Corporation to mark the 50th anniversary. COP processing facility completed in Takaoka Plant.
2001	**Dec.**	ZeonorFilm® (LCD optical film) launched.
2002	**Oct.**	Green Sustainable Chemistry Minister of the Environment Award received for development of ZEORORA®.
2003	**Mar.**	Manufacturing and sales company for logistics materials established.
	Jul.	RIMTEC Corporation founded.
	Aug.	Construction of a polymerized color toner plant began.
2004	**Apr.**	Construction of the facility for LCD diffusion plates made with COP completed. Construction of a new CMB (Carbon Master Batch) factory completed in Guangzhou, China.
	Aug.	New Low-k dielectric material for inter-layer insulation developed.
	Oct.	COP production capacity improved to 15,000 tons.
2005	**Feb.**	Construction of Precision Optics Laboratory and ZeonorFilm® Complex No. 5 at Takaoka Plant completed. Relocated head office to current location at 1-6-2 Marunouchi, Chiyoda-ku, Tokyo.
	Mar.	Constructed new manufacturing facility and launched sales of New Ether Solvent (CPME).
	Oct.	Construction of R&D facility for chemicals development completed in Yonezawa City, Yamagata Pref.
2006	**Apr.**	Completed R&D building No. 10.
	May	CPMT Young Award received from the IEEE (Institute of Electrical and Electronics Engineers) for development of COP insulation film.
	Dec.	Production capacity expanded for synthetic aromatic chemicals and leaf alcohol.
2007	**Aug.**	Received Association Award from the Society of Synthetic Organic Chemistry, Japan, for the development and commercialization of CPME.
	Sep.	Won METI Minister's Prize of the second Monozukuri Nippon Grand Award for Optical Films.
2008	**Jun.**	New facility for optical films constructed in Himi City, Toyama Pref.
2009	**Jan.**	Construction of the Integrated Product Center (IPC) at the Mizushima Plant completed. Optes Inc. absorbed by Zeon.

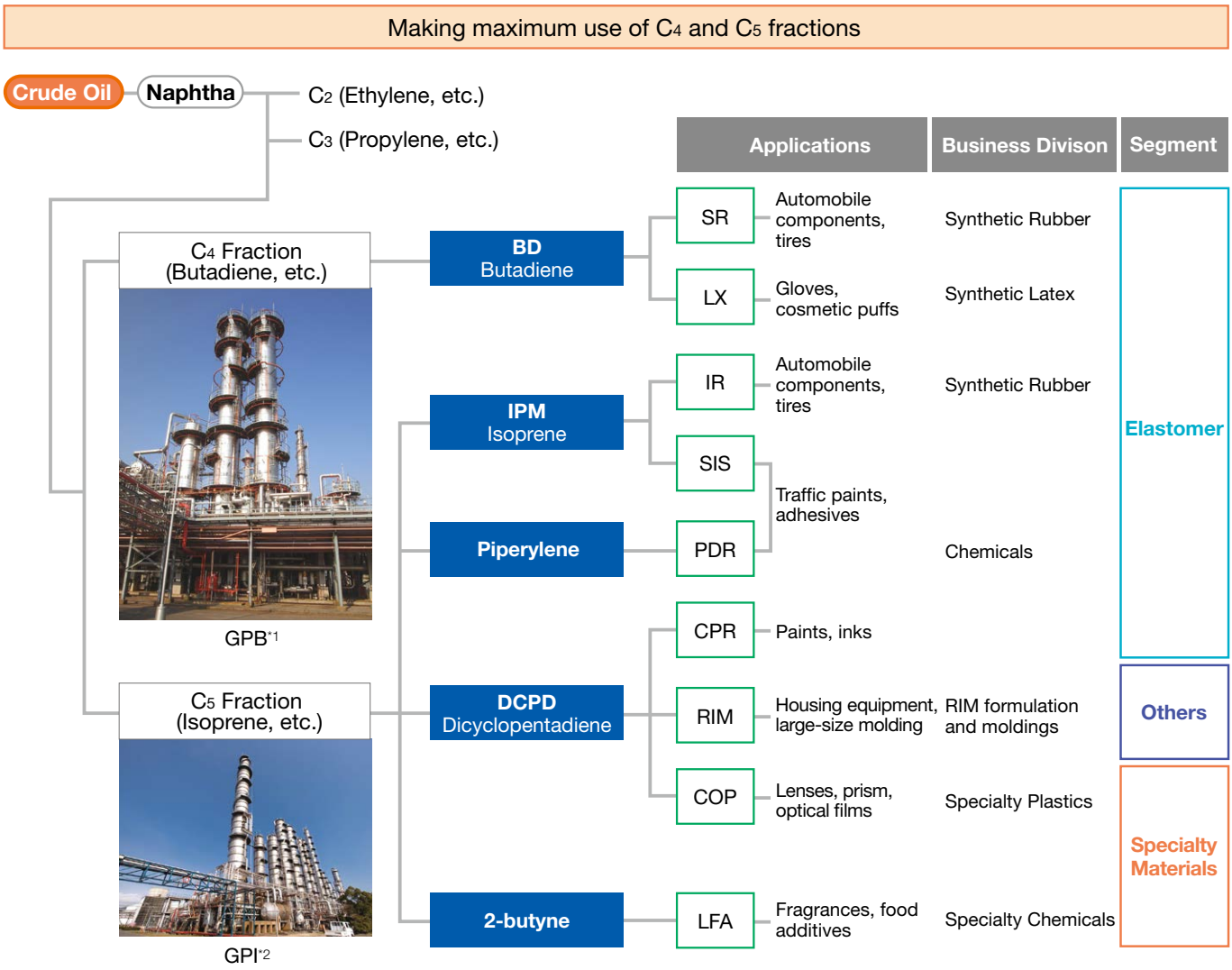
2010s

2010	**Feb.**	Applied to delist from the Osaka Securities Exchange (delisted in March 2010).
	Dec.	Zeon Chemicals Singapore Pte. Ltd. founded.
2011	**Feb.**	Zeon Korea Co., Ltd. founded. Profiles in Sustainability Award received in the product category at InformexUSA 2011 for CPME.
	Jul.	Zeon (Shanghai) Co., Ltd. in China established.
	Oct.	New production facility for retardation film completed in Himi City, Toyama Pref.
2012	**Feb.**	Zeon Manufacturing Vietnam Co., Ltd. founded.
	Aug.	New hydrogenation facility for Zetpol™ completed at Kawasaki Plant.
2013	**Mar.**	Tohpe Corporation becomes subsidiary through TOB.
2014	**Apr.**	Construction of Zeon Chemicals Singapore Pte. Ltd. completed. Production of S-SBR begins.
2015	**Jul.**	Zeon India Private Limited in India established. Zeon Kasei Mexico S.A. de C.V. established in San Luis Potosí City, Mexico.
	Nov.	Construction of carbon nanotube (CNT) production facility completed at Tokuyama Plant.
2016	**Apr.**	Prizes for Science and Technology from the Ministry of Education, Culture, Sports, Science and Technology of Japan received jointly with the Institute of Advanced Industrial Science and Technology (AIST) for the development of mass production technology for carbon nanotubes.
	Dec.	Construction completed of mass production facility for high-performance thermal interface material that combines CNT with rubber.
2017	**Feb.**	CNT composite material research center established with Institute of Advanced Industrial Science and Technology (AIST) and others.
	Mar.	ZS Elastomers Co., Ltd., a joint venture with Sumitomo Chemical Co., Ltd., begins operations.
	May	Received Outstanding Technology Award from the Society of Polymer Science, Japan, for development of asymmetric SIS copolymer.
	Aug.	Opened Asia Technical Support Laboratory in Singapore.
	Sep.	Completed construction of a hydrogenation facility for the petroleum resin manufacturing plant at Mizushima.
	Oct.	Established Zeon Specialty Materials Inc. in California, U.S.A., as a local sales subsidiary for specialty materials and began operations.
2018	**Jun.**	Established Zeon Taiwan Co., Ltd. for trading electronic materials.
	Sep.	Established Zeon Chemicals Asia Co., Ltd. for manufactore and sell of Acric Rubber.

Proudly presenting unique technologies and products to the world by comprehensively utilizing C_4 and C_5 fractions in a domain that gives Zeon the competitive edge

Zeon presents its overwhelming, world-class capabilities in many fields, such as oil resistant special synthetic rubbers. Although businesses such as the rubber, latex, and chemicals businesses are all niche ventures, these are the fields in which Zeon can fully demonstrate its core competency while aiming to be the best. Zeon's business policy is to improve these already strong fields further, and thereby become a valuable company to society.

Business Segments

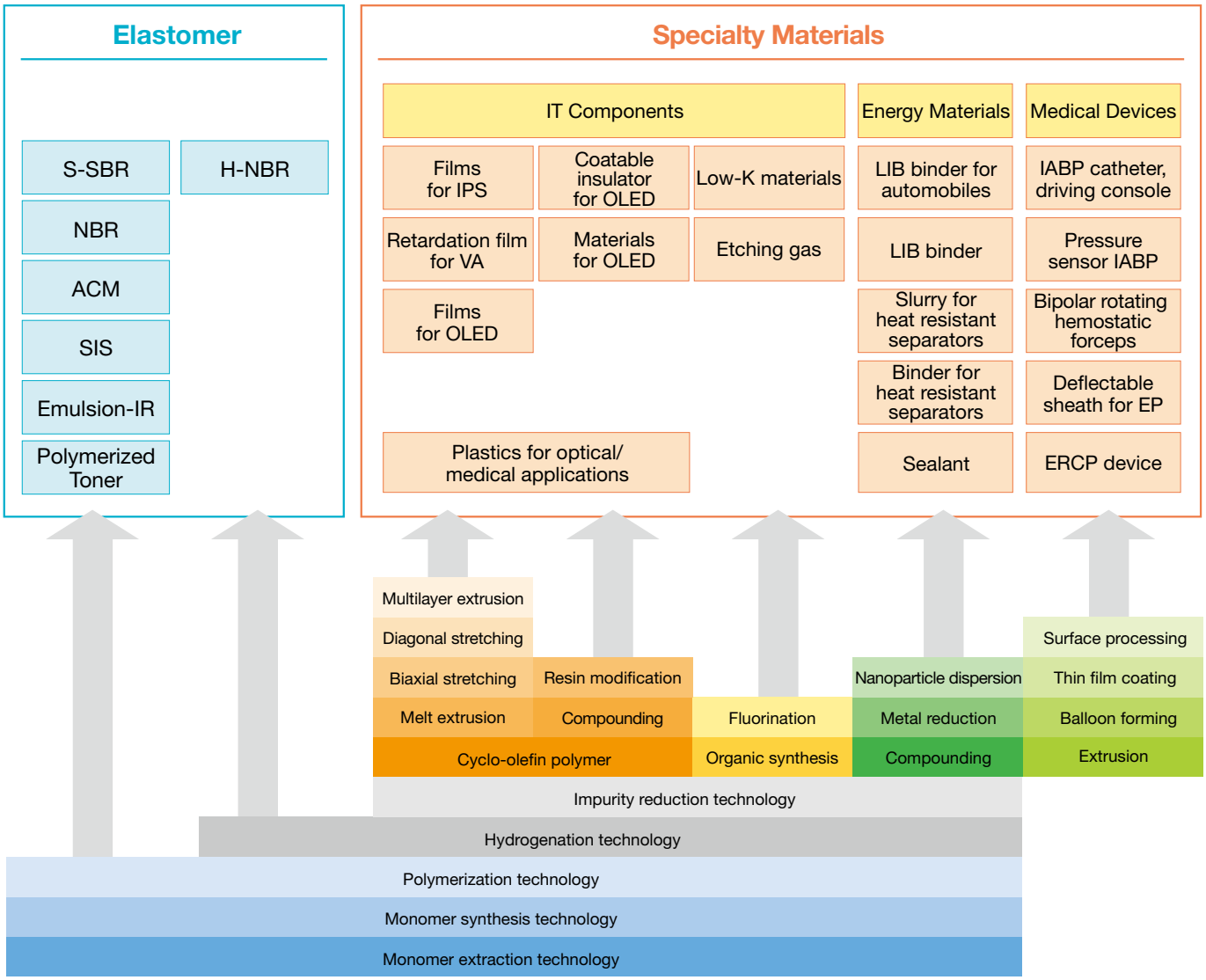


*1 GPB : Zeon's original extraction technology for butadiene
*2 GPI : Zeon's original extraction technology for isoprene

Deploying multiple core technologies that continuously generate unique products based on an unshakable foundation of business creation geared to the future

Zeon's technologies and products contain significant future business potential, supported by core technologies such as elastomer or polymer particle design that focus on the basics. Zeon will continue to create new businesses that will play central roles for the next generation, as fields that able to meet the future needs.

Core Technologies and Products



Large variety of fields encompassing business domains that serve as the foundations of daily life and industry.

Zeon's business segments can be broadly categorized into two groups. In the Elastomer Business, we are pursuing the basic strategy of meeting the global needs of promising markets and further boosting an already competitive business with a proven track record. In the Specialty Materials Business, we are forging ahead with R&D in key areas with the aim of expanding applications into new business domains.

Elastomer Business

Synthetic Rubber

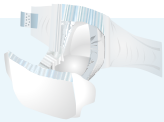
- **Solution-polymerized Styrene Butadiene Rubber (S-SBR)**
  Nipol® NS Series (oil extended and non-oil extended)
- **Emulsion-polymerized Styrene Butadiene Rubber (E-SBR)**
  Nipol® NS Series (oil extended and non-oil extended)
- **Butadiene Rubber (BR)**
  Nipol® BR Series
- **Isoprene Rubber (IR)**
  Nipol® IR Series
- **Acrylonitrile Butadiene Copolymer**
  Nipol® NBR Series (very high nitrile, high nitrile and middle nitrile)
  Liquid nitrile elastomers, powder NBR,

Synthetic Latex

- **Styrene-butadiene copolymer (SB) latex**
- **Polybutadiene copolymer latex**
- **Acrylonitrile butadiene copolymer**

Chemicals

- **Aliphatic Hydrocarbon Resin**
  Quintone®100
- **Alicyclic Hydrocarbon Resin**
  Quintone®1000
- **Styrene Isoprene Block Polymer**
  Quintac®



Specialty Materials Business

Specialty Plastics

- **Resins and Optical and Medical Applications**
  ZEONEX®
- **Engineering Plastics**
  ZEONOR®

Specialty Components

- **Plastic Molding Products**
  Molded products based on ZEONEX®
- **Optical Film**
  ZeonorFilm®

Electronic Materials

- **Coating Insulation Material for Displays**
  ZEOCOAT®
- **Lift-off Resist for Electronic Components Manufacturing**
  ZPN series
- **High Performance Positive EB**
  ZEP series

Energy Materials

- **Specialty Materials for Lithium Ion Batteries**
  Cathode binders, anode binders, binders for functional layers, sealants

Chemicals

- **Synthetic Aromatic Chemicals**
  Green notes, jasmine notes, lactone notes, other notes
- **Specialty Solvents, Cleaning Solvent, Urethane Blowing Agent**
  Cyclopentanone, cyclopentyl methyl ether (CPME), ZEORORA®-H, Zeonsolve® HP (Cyclopentane)
- **Specialty Chemicals (Pharmaceutical and Agrochemical Intermediates,**
  Hydrocarbons
  Alcohol
  Ketones, halogenated compounds
  Heterocyclic compounds
  Fluoride compounds
  Other

Medical Devices

- **Cardiovascular Fields**
  ABP driving console
  FFR devices for blood vessel treatment
- **Gastroenterology Fields**
  Balloon catheter for biliary calculus extraction
  Biliary stent with thinner catheter, crusher catheter

Polymerized Toners

- **Polymerized toner**
  ZEOGLOBULE®

Integrated Production Center (IPC) at the Mizushima Plant

IPC's lobby

(NBR) Latex
nitrile, middle high

terpolymer NBR, polyblend

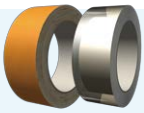
Epichlorohydrin (ECO) Polymers
Hydrin®

Acrylic Rubber (ACM)
Nipol® AR

Hydrogenated Nitrile Rubber (HNBR)
Zetpol® (very high nitrile, high nitrile, middle high nitrile, low temperature grades)
Zetpol® PB (polyblend) Zetpol® (high-performance hydrogenated nitrile rubber)
Zetpol® ZSC hydrogenated NBR alloy Zetpol® latex (HNBR latex)

Polyether Anti-static Agent
ZEOSPAN®

(NBR) latex | **Vinylpyridine copolymer latex** | **Acrylate latex**



Resist | **Dry Etching Gas**
ZEORORA® ZFL-58 (for SiO_2 etching)

Industrial Chemicals)

Other Businesses

CNT Business
Super-Growth Carbon Nanotube
ZEONANO®

RIM Business
RIM Formulation liquids and Products
PENTAM® METTON®

Others
Paints
Paints for Construction and Building Exteriors

The Elastomer Business provides Zeon with a robust backbone.

Synthetic Rubbers

Continuing to deliver new products for the automobile industry from its global production and supply base

Zeon's history of producing synthetic rubbers is synonymous with the journey of synthetic rubber production in Japan. We were the nation's first to manufacture synthetic rubbers more than half a century ago. Our Zetpol®, the worlds first hydrogenerated nitrile rubber is used in wide-ranging applications as the material for automotive timing belts and hydraulic equipment. Our S-SBR for fuel-efficient tires have attracted significant attention for contributing to the reduction of fuel consumption, leading Zeon to build a new plant in Singapore in addition to its Tokuyama Plant in order to keep pace with vigorous demand. Now, our annual production capacity at the two S-SBR production bases exceeds 100,000 tons.
Zeon's proven production innovation system supports to ensure stable and safe production. Also, we are actively promoting R&D for next-generation elastomers, such as biohydrin rubber, as an automotive material with less environmental impact. Applying its strength in specialty synthetic rubbers, Zeon seeks to transform itself into a global leader in synthetic rubbers, which continue to be the powerful foundation of Zeon's business.

Rubber parts for automobiles

Synthetic rubber

Specialty synthetic rubber used in automobile engines

Synthetic Latexes

Supporting your everyday life and industry with wide variety of applications

Applications for synthetic latexes are rapidly expanding, especially for latex for gloves, which has shown solid growth at an annual rate of 5% to 7%. This has led to steady growth for Zeon's NBR latex. Our latexes are also being widely used for such applications as paper coatings (including the impregnation), ABS resin modifier, fibers or non-woven fabrics, an adhesive for tire cords, and cosmetic puffs.

Latex

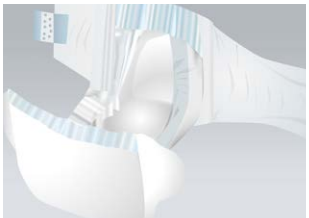
NBR latex gloves

Chemicals

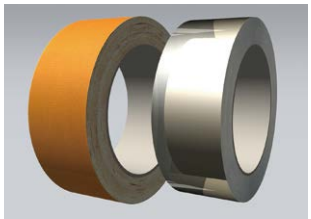
Generating innovative products by comprehensively utilizing C_5 fractions

The GPI Method is the pillar of Zeon's unique technology. Our Mizushima Plant is the world's only facility that comprehensively utilizes C_5 fractions, and Zeon's Chemicals Business comprises products made at this plant. We are targeting Quintone®, a petroleum resin used in adhesives and traffic paints, and Quintac® thermoplastic elastomer SIS into the world's top product in this field. Our newly developed *asymmetric SIS* is expected to provide new value to cutomers and new applications such as elastic films for paper diapers.

Quintone®



Diapers with Quintac®



Adhesive tapes with Quintone® and Quintac®

Significant added value to materials and components through Zeon's polymer design and processing technologies

Specialty Plastics

ZEONEX® and ZEONOR®, developed by our unique C_5 technologies, generate high-value-added products that are key to Zeon's future.

A quarter of a century since the full-scale launch of Zeon's specialty plastics business in 1990, ZEONEX® has emerged as the top brand in optical resins, in reputation and reality. In addition to utilizing its optical characteristics in applications such as lenses and prisms, other characteristics such as its high purity, low moisture absorption, and low adsorption are now being used in a widening range of applications, including medical products such as syringes and vials.

Lenses and prisms for cameras and optical equipment using ZEONEX®

Syringe

Smartphone (lens, film)

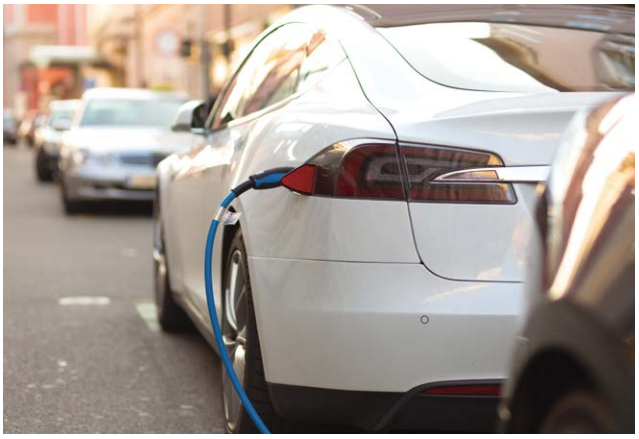
ZEONOR® enriches daily life in the shape of optical film.

ZEONOR® is marketed not only as a resin but also as the optical film ZeonorFilm®. Created using Zeon's unique technology, ZeonorFilm® is used in various display devices, from large-screen LCD TVs to tablets and smartphones. Zeon upholds a consistent design concept from polymer design to processed products and maintains its advanced technological capabilities ensuring a direct link between its laboratories and production plants to continue generating products that will meet the needs of display devices for the next generation.

ZEONEX®

ZeonorFilm®

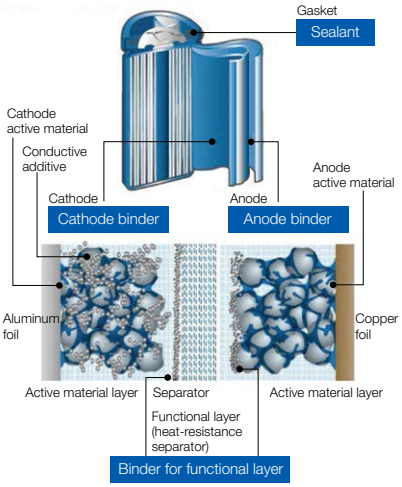
Energy Materials



Lithium battery

Enhancing the product lineup in the high-growth battery market.

Lithium Ion batteries (LIB) for mobile devices, represented by smartphones, continue to show significant market growth. Zeon boasts the highest performance and safety for its binders and is considered to have the top share in the global market for anode binders. Together with our product lineup of binders for cathode and for functional layers, the Energy Materials Business supports the growing LIB market also in the automobile industry.



Chemicals

Major synthetic aroma chemicals with jasmine notes used to produce shampoo, conditioner, and soap.

Generated from C_5 fractions, Zeon offers a broad range of chemicals contribute to everyday life for many people.

Synthetic aromatic chemicals that enrich daily life constitute the pillar of our Chemicals Business. They play a particularly essential role in food products and cosmetics. This segment also offers the variety of products all from the comprehensive use of C_5 fractions, such as industrial chemicals, pharmaceutical and agrochemical intermediates, and cleaning solvents. Our cleaning solvent ZEORORA®-H has particularly won awards of ozone layer protection as an alternative to chlorofluorocarbon.

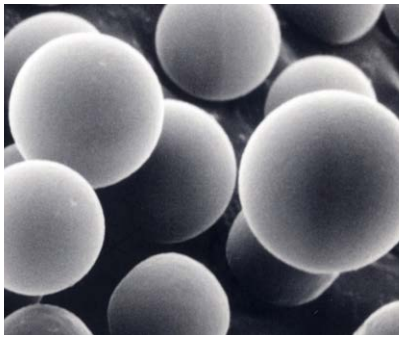
Medical Devices

Balloon catheter

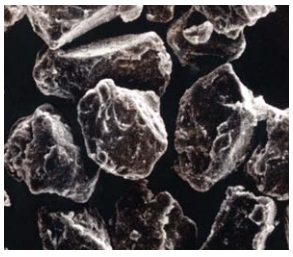
Zeon's medical division supports healthcare through combined efforts in manufacturing, sales, and technology.

Zeon's medical division has sought to expand businesses centered on the gastroentrology and cardiovascular fields. Products for digestive system include stone-flushing offset balloon catheter, crusher catheter, and biliary stents with thinner catheter. Cardiovascular products include the IABP driving console and FFR devices for blood vessel treatment, which is a new product. We plan to increase our share of the promising FFR market with these optical sensor-based FFR devices.
Our production plant and laboratory for medical devices are at the same location, enabling us to rapidly develop new products by anticipating user needs.

Polymerized Toners



ZEOGLOBULE®

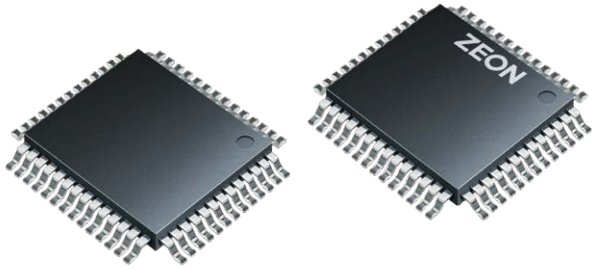


(Ref. Pulverized toner)

Spherical toner for printers from Zeon's advanced polymer design technology and fine particle control technology

Zeon was first in the world to achieve industrial-scale production of polymerized toners based on its advanced polymer design technology and fine particle control technology cultivated through its experience in synthetic rubber and latex. ZEOGLOBULE® is a groundbreaking toner featuring uniform spherical forms that contributes not only to ensuring higher image quality but also to energy conserving printing due to its low temperature fixing.

Electronic Materials Business

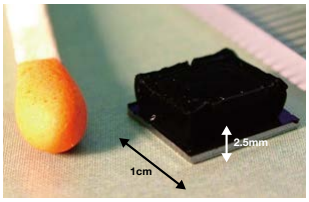


Supporting the semiconductor industry with our synthesis technology

Zeon provides insulating materials, etching gas, and resists that are primarily used to manufacture semiconductors as cutting-edge materials that contribute also to IoT.

Various businesses conducted by Zeon Group companies

CNT Business



Single-walled carbon nanotubes, a dream material, will enhance the level of science and technology in pursuit of innovations for the next generation.

In 2015 the world's first mass production facility for super-growth carbon nanotubes was completed at our Tokuyama Plant. Following the NEDO project and joint research with Japan's National Institute of Advanced Industrial Science and Technology, the leading next-generation materials have finally emerged. With many excellent properties, CNT is being combined with rubber and resin to produce novel materials in our businesses. Promising new applications include highly heat-resistant rubber and super thermal conductive composite materials. We received the fiscal 2016 prizes for science and technology from Japan's Ministry of Education, Culture, Sports, Science and Technology for the mass production of CNT.

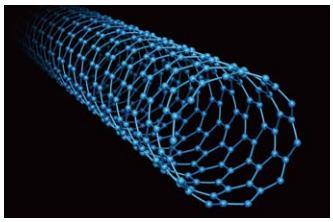


Image of the carbon nanotube structure

RIM Business

Formation liquids based on our dicyclopentadiene for reaction injection molding (RIM).

Dicyclopentadiene extracted from C_5 fractions are used as the main ingredient for fromation liquid for thermosetting resins that are molded using the RIM process. The molded products have many advantages in physical properties and in easier process. That is ideally suited for the large-scale molding of products such as combined septic tanks for homes, prefabricated bath units, flooring material for bathrooms, and truck bumpers.

Other Businesses

Paints Business

Zeon acquired a paint manufacturer Tohpe Corporation in 2013 to develop and sell paints that optimally meet user needs.

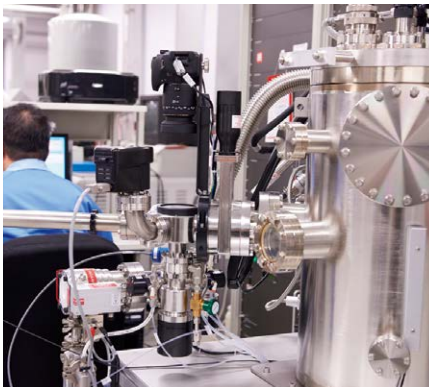
Building Materials Business

Zeon Kasei manufactures and sells various building materials including sound insulatior and siding materials.

Zeon's next-generation innovations are generating new products directly linked to its business strategy through R&D that capitalizes on its unique technologies.

R&D Center Building No. 8

The R&D Center is composed of the laboratory at the Kawasaki site as well as the laboratories at our Takaoka, Mizushima, and Tokuyama plants. It is also part of an international network of Group companies that includes Zeon Chemicals L.P. in the United States and our laboratory in Vietnam. Also, we are actively engaged with research institutions and academic conferences centered on joint research among industry, government, and academia to develop exchanges among researchers and establish a bridgehead for constructing a new business strategy for the next generation.
The series of new products and technologies generated by this R&D system have successfully reached the markets, attracting significant attention across the industry.
We have created new materials from the diverse technologies developed for each business domain based on our monomer extraction and synthesis technologies as well as elemented technologies such as polymerization, hydrogenation, and impurity reduction technologies. We will enhance the comprehensive R&D capabilities of the Zeon Group and continue to advance toward creating even greater innovations.



Production Technology Laboratory

Research & Development Center

- Analytical Technology Laboratory
- New Materials Development Laboratory
- CNT Laboratory
- Elastomer Laboratory
- Funtional Particles Laboratory
- C_5 Chemicals Laboratory (Mizushima)
- Specialty Chemicals Laboratory
- Composite Material Laboratory
- Advanced Performance Material Laboratory
- Specialty Plastics Laboratory
- Precision Optics Laboratory (Takaoka)
- Medical Laboratory (Takaoka)
- Manufactured Product Development Laboratory
- Production Technology Laboratory

Delivering consistent quality and reliability to the world, grounded in our production innovation methodology

Takaoka Plant

Location 630 Ogino, Takaoka City, Toyama Prefecture, Japan
Site area 376,000 m²
Start of operations November 1956

Major products
Synthetic rubbers, electronic materials

Tokuyama Plant

Location 2-1 Nachi-cho, Shunan City, Yamaguchi Prefecture, Japan
Site area 243,750 m²
Start of operations August 1965

Major products
Synthetic rubbers, synthetic latexes, polymerized toners, single-walled CNT, butadiene (monomer)

Kawasaki Plant

Location 1-2-1 Yako, Kawasaki-ku, Kawasaki City, Kanagawa Prefecture, Japan
Site area 75,511 m²
Start of operations July 1959

Major products
Synthetic rubbers, synthetic latexes

R&D Center

Mizushima Plant

Location 2767-1 Kojima Shionasu Aza Niihama, Kurashiki City, Okayama Prefecture, Japan
Site area 269,095 m²
Start of operations July 1969

Major products
Synthetic rubbers, thermoplastic elastomers, petroleum resin, cyclo olefin polymers, synthetic aromatic chemicals, butadiene (monomer), isoprene (monomer)

Takaoka Plant (Takaoka City, Toyama Prefecture)

The plant began as a mass production factory for vinyl chloride resin and played an important role in meeting expanding demand. It subsequently withdrew from the production of vinyl chloride resin in response to the evolving business environment and now manufactures high added-value products such as hydrogenated nitrile rubber and electronics materials. The plant also maintains manufacturing facilities for optical film and medical devices and continues to operate as a cutting-edge factory for our Specialty Materials Business.

Kawasaki Plant (Kawasaki City, Kanagawa Prefecture)
R&D Center (Kawasaki City, Kanagawa Prefecture)

The Kawasaki Plant was the first facility in Japan to mass produce synthetic rubbers. Over the fifty years since then, it has been manufacturing specialty synthetic rubber with excellent oil and heat resistance properties for automobile industies as well as synthetic latex for rubber gloves and cosmetic puffs. It is playing an important role as the main plant in the Tokyo metropolitan area that emphasizes the importance of environmental protection and safety. The R&D Center is located at the same site.

Tokuyama Plant (Shunan City, Yamaguchi Prefecture)

The Tokuyama Plant was established as the main factory of synthetic rubber utilizing butadiene monomers obtained by the GPB method. Facilities to handle specialty synthetic rubbers and synthetic latexes were subsequently established, and manufacturing of polymerized toners started in 1995. A large part of the manufactured synthetic rubber is exported to Europe, the United States, and Asian countries. As the core factory of Zeon Corporation's material business. Moreover, the world's first mass production facility for single-walled carbon nanotubes was completed within this facility, raising expectations for the mass production of next-generation materials.

Mizushima Plant (Kurashiki City, Okayama Prefecture)

This facility was created in the Mizushima Waterfront Industrial Complex in Kurashiki-shi as a production base of general-purpose vinyl chloride resin. Then the plant has added a butadiene monomer extraction plant and isoprene monomer extraction plant. Due to the successful development of the GPI method, the plant is now expanding and developing as an unrivaled production site for the C_5 business. We have implemented a production innovation system based on the Daicel way in this plant. Its Integrated Production Center (IPC) has been recognized as an ingenious method in the Japanese chemicals industry and has welcomed many visitors.

From sharing information to sharing value as corporate partners advancing toward a common vision


Zeon Medical Inc. (Takaoka)


Optes Inc. (Takaoka)

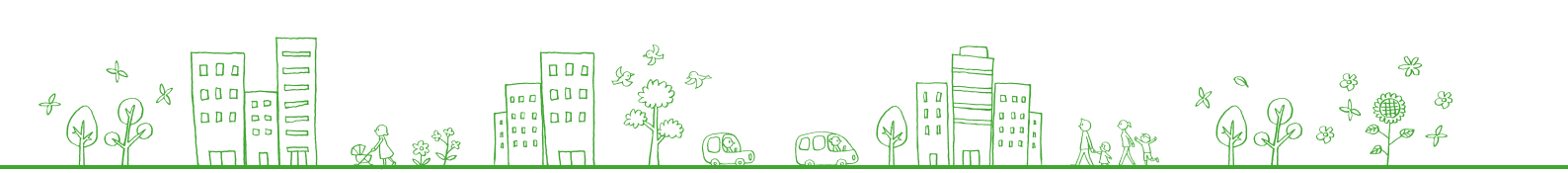

TFC Inc. and Optes Inc. (Tsuruga)


Zeon Chemicals Yonezawa Co., Ltd.


Optes Inc. (Himi)


Shin Marunouchi Center Building


Tohpe Corporation



1 Optes Inc.

422-1, Futagamishin, Takaoka-shi, Toyama 933-0981, Japan
TEL: +81-766-32-1590 FAX: +81-766-32-1591

Hokuriku Plant (Himi) Kamitako, Himi City, Toyama 935-0035, Japan
Hokuriku Plant (Takaoka) 422-1, Futagamishin, Takaoka City, Toyama 933-0981, Japan
Hokuriku Plant (Tsuruga) 35, Azono, Tsuruga City, Fukui 914-0141, Japan

- Manufacturing of optical film and optical parts; design and manufacturing of metallic molding

2 Zeon F&B Co., Ltd.

Shin Marunouchi Center Building, 1-6-2 Marunouchi, Chiyoda-ku, Tokyo 100-0005, Japan
TEL: +81-3-3216-1410 FAX: +81-3-3216-1421

- Factoring, agency business for nonlife insurance, real estate transactions, personal loan service; personnel, general affairs, and accounting operations under consignment

3 Zeon Kasei Co., Ltd.

Shin Marunouchi Center Building, 1-6-2 Marunouchi, Chiyoda-ku, Tokyo 100-0005, Japan
TEL: +81-3-5208-5111 FAX: +81-3-5208-5290

- Manufacturing and sales of plastic products and packing materials

4 Zeon Chemicals Yonezawa Co., Ltd.

3-446-13 Hachimanpara, Yonezawa City, Yamagata 992-1128, Japan
TEL: +81-238-29-0055 FAX: +81-238-29-0053

- Manufacturing, processing, and sales of aromatic chemicals and RIM formulations

5 Zeon Nano Technology Co., Ltd.

Shin Marunouchi Center Building, 1-6-2 Marunouchi, Chiyoda-ku, Tokyo 100-0005, Japan
TEL: +81-3-3216-1766 FAX: +81-3-3216-1767

- Processing and sales of carbon nanotubes and related products

6 Zeon North Co., Ltd.

351 Ejiri, Takaoka City, Toyama 933-0062, Japan
TEL: +81-766-25-1111 FAX: +81-766-25-4059

- Contracting, design, construction, and management for various facilities; sales of industrial materials and equipment; purchasing and sales of petrochemical products

7 Zeon Polymix Inc.

1-11-1 Ishizue, Ohtsu City, Shiga 520-2272, Japan
TEL: +81-77-546-1223 FAX: +81-77-546-0338

- Refining and processing of synthetic rubbers (carbon masterbatches)

8 Zeon Medical Inc.

Shin Marunouchi Center Building, 1-6-2 Marunouchi, Chiyoda-ku, Tokyo 100-0005, Japan
TEL: +81-3-3216-1265 FAX: +81-3-3216-1269

- Manufacturing and sales of medical devices

9 Zeon Yamaguchi Co., Ltd.

2-1 Nachi-cho, Shunan City, Yamaguchi 745-0023, Japan
TEL: +81-834-21-8482 FAX: +81-834-21-8663

- Purchasing and sales of civil engineering materials, packing materials, and various facilities; design, construction, and contracting for various plants; environment analysis

10 Tohpe Corporation

1-5-11 Chikkoshinmachi, Nishi-ku, Sakai City, Osaka 592-8331, Japan
TEL: +81-72-243-6411 FAX: +81-72-243-6415

- Manufacturing and sales of paints and specialty materials

11 RIMTEC Corporation

Shin Marunouchi Center Building, 1-6-2 Marunouchi, Chiyoda-ku, Tokyo 100-0005, Japan
TEL: +81-3-5220-8581 FAX: +81-3-5220-8584

- Manufacturing, processing, and sales of RIM formulation liquids

12 Tokyo Zairyo Co., Ltd.

Shin Marunouchi Center Building, 1-6-2 Marunouchi, Chiyoda-ku, Tokyo 100-0005, Japan
TEL: +81-3-5219-2171 FAX: +81-3-5219-2201

- Purchasing and sales of various chemical products

13 ZS Elastomers Co., Ltd.

Shin Marunouchi Center Building, 1-6-2 Marunouchi, Chiyoda-ku, Tokyo 100-0005, Japan
TEL: +81-3-3216-0620 FAX: +81-3-3216-0629

- Sales and R&D of S-SBR

14 Okayama Butadiene Co., Ltd.

Sen-i Kaikan 2F 3-1-11, Nihonbashi-Honcho, Chuo-ku, Tokyo 103-0023, Japan
TEL: +81-3-3278-0721 FAX: +81-3-3278-0722

- Manufacturing and sales of butadiene monomers

15 ZIS Information Technology Co., Ltd.

Shin Marunouchi Center Building, 1-6-2 Marunouchi, Chiyoda-ku, Tokyo 100-0005, Japan
TEL: +81-3-3216-6500 FAX: +81-3-3216-6534

- Consulting for data processing systems; sales and maintenance of computers and office automation equipment

16 Zeon Opto Bio Lab Co., Ltd.

234-1,Konaka-cyo, Sano-shi, Tochigi 327-0001, Japan
TEL: +81-283-23-7061 FAX: +81-283-23-7054

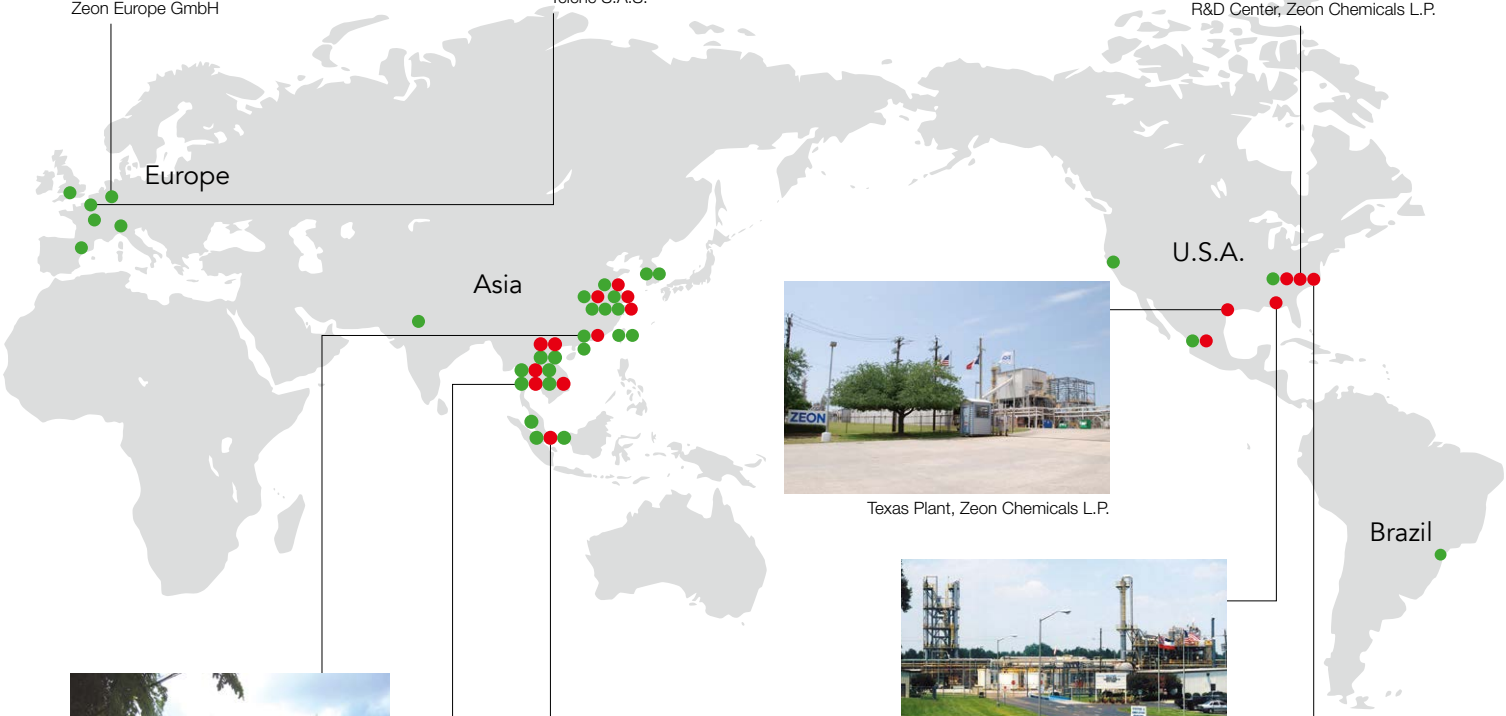
- Molding of plastic productst

Zeon's global network continues to expand across many different borders.


Zeon Europe GmbH

Telene S.A.S.

R&D Center, Zeon Chemicals L.P.



Texas Plant, Zeon Chemicals L.P.

Mississippi Plant, Zeon Chemicals L.P.

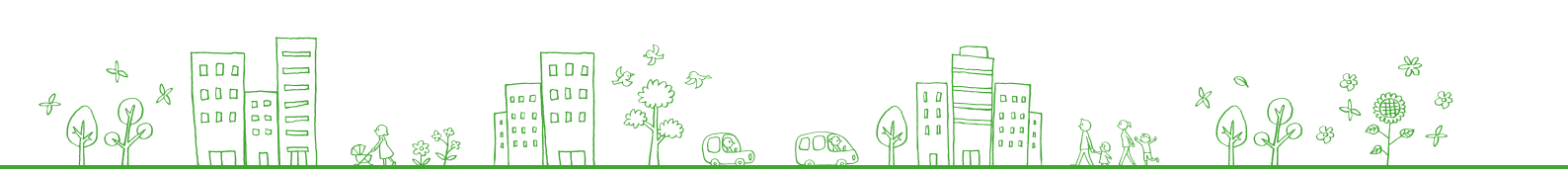
Zeon Polymix (Guangzhou) Co., Ltd.


Zeon Chemicals Singapore Pte. Ltd.

Zeon Chemicals (Thailand) Co., Ltd.


Kentucky Plant, Zeon Chemicals L.P.

Sales Base
Plant/Laboratory



Europe

Zeon Europe GmbH ●
Hansaallee 249, 40549 Düsseldorf, Germany
TEL: +49-211-52670 FAX: +49-211-5267160

Zeon Europe GmbH (Branch in France) ●
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TEL: +49-2115267-145

Zeon Europe GmbH (Branch in Spain) ●
C/Beethoven, 15, 4º08021 Barcelona, Spain
TEL: +34-93-183-87-08 FAX: +34-93-183-87-58

Zeon Europe GmbH (Branch in Italy) ●
Via Mauro Macchi, 27, 20124 Milan, Italy
TEL: +39-02-36680101 FAX: +39-02-36680124

Zeon Europe GmbH (Branch in U.K.) ●
Scott Court, Unit 2A, Ocean Way, Cardiff, CF24 5HF,
United Kingdom
TEL: +44-1446-725000 FAX: +44-1446-747988

Telene S.A.S. ●
2, rue Marie Curie - 59910 Bondues, France
TEL: +33-3-20-69-57-10 FAX: +33-3-20-69-57-11

The Americas

Zeon Chemicals L.P. ● ●
4111 Bells Lane, Louisville, Kentucky 40211, U.S.A.
TEL: +1-800-735-3388 FAX: +1-502-775-2055
TEL: +1-502-775-2000

R&D Center ●
4111 Bells Lane, Louisville, Kentucky 40211, U.S.A.
TEL: +1-502-775-7765 FAX: +1-502-775-7783

Kentucky Plant ●
4100 Bells Lane, Louisville, Kentucky 40211, U.S.A.
TEL: +1-502-775-7600 FAX: +1-502-775-7614

Mississippi Plant ●
1301 West Seventh Street, Hattiesburg, Mississippi 39401, U.S.A.
TEL: +1-601-583-6020 FAX: +1-601-583-6032

Texas Plant ●
11235 Choate Road, Pasadena, Texas 77507, U.S.A.
TEL: +1-281-474-9693 FAX: +1-281-474-0966

Zeon do Brasil Ltda ●
Rua Arandu, 1544, São Paulo SP, Brazil
TEL: +55-11-5501-2120 FAX: +55-11-5501-2122

Zeon Kasei Mexico S.A. de C.V. ● ●
Avenida Santiago Sur 100, Los Jassos, San Luis Potosi,
San Luis Potosi, Mexico C.P.78420
TEL: +52-1-444-478-5400 FAX: +52-1-444-478-5450

Zeon Specialty Materials Inc. ●
25 Metro Drive #238, San Jose, CA 95110, U.S.A.
TEL: +1-408-641-7889 FAX: +1-408-516-9382

Asia

Zeon Manufacturing Vietnam Co., Ltd. ● ●
No. 109, Road No. 10, VSIP Haiphong Township, Industrial and Service Park,
Dinh Vu-Cat Hai Economic Zone, Thuy Nguyen District, Haiphong City, Vietnam
TEL: +84-225-3797-027 FAX: +84-225-3797-028

Zeon Research Vietnam Co., Ltd. ●
6th Floor, Building 85 Nguyen Du Str., Hai Ba Trung District, Hanoi,
Vietnam 100000
TEL: +84-4-3632-0557 FAX: +84-4-3632-0557

Asia

Zeon (Shanghai) Co., Ltd. ●
Room 1502, Hongwell International Plaza, No. 1600 Zhongshan West Road, Xuhui District,
Shanghai 200235, China
TEL: +86-21-6167-5776 FAX: +86-21-6040-7258

Zeon Trading (Shanghai) Co., Ltd. ●
Room 1501, Hongwell International Plaza, No. 1600 Zhongshan West Road, Xuhui District,
Shanghai 200235, China
TEL: +86-21-6040-7255 FAX: +86-21-6040-7258

Shanghai Zeon Co., Ltd. ● ●
No. 380, Shennan Road, Xinzhuang Industry District, Minhang, Shanghai 201108, China
TEL: +86-21-64896160 FAX: +86-21-64420569

Zeon Polymix (Guangzhou) Co., Ltd. ● ●
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Takehara Zeon (Shanghai) Co., Ltd. ● ●
No. 380 Shennan Road, Xinzhuang Industrial Zone, Minhang District, Shanghai 201108, China

Suzhou Rui Hong Electronic Chemicals Co., Ltd. ● ●
No. 501, Minfeng Road, Economic Development Zone, Wuzhong District, Suzuhou City, Jiangsu, China
TEL: +86-512-6921-7666 FAX: +86-512-6921-7555

Zeon Kasei (Changshu) Co., Ltd. ● ●
Huangpujiang Road 96, Dongnankaifa District, Changshu City, Jiangsu Province, China
TEL: +86-512-5235-7000 FAX: +86-512-5235-7308

Zeon Medical (Guangzhou) Inc. ●
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Guangzhou, Guangdong 510620, China
TEL: +86-20-2283-6788 FAX: +86-20-2283-6789

Zeon Korea Co., Ltd. ●
No. 403, 4Fl., 36, Teheran-ro 87-gil, Gangnam-gu, Seoul, 06164, South Korea (City Air Tower, Samseong-dong)
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Zeon Shinhwa (Zeshin) Inc. ●
No. 502 CALT B/D (City Airport) 22, Teheran-ro 87-gil, Gangnam-gu, Seoul 06164, South Korea
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Zeon Taiwan Co., Ltd. ●
4F., No.36, Nanjing W. Rd., Datong Dist., Taipei City 103, Taiwan(R.O.C.)
TEL: +886-2-2552-3620

Zeon CSC Corporation ●
3rd Fl. 266, Sec. 1, Wen Hwa 2 Road, Linkou Dist., New Taipei City 24448, Taiwan, R.O.C.
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Zeon Asia Pte. Ltd. ●
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Asia Technical Support Laboratory ●
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Zeon Chemicals Asia Co., Ltd. ● ●

Zeon Advanced Polymix Co., Ltd. ● ●
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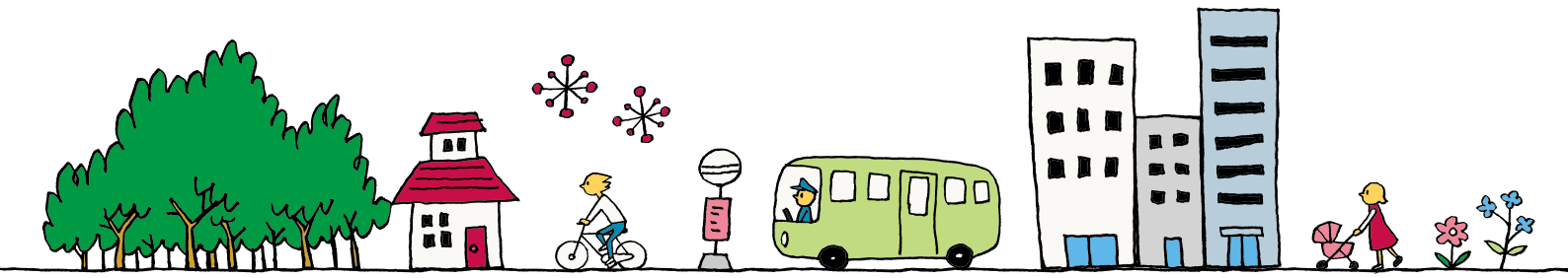
TEL: +66-38-893-565 FAX: +66-38-893-569

Sales Office ●
591 UBCII BLDG, Office No. 2206, 22th FL, Sukhumvit 33rd, Klongton Nua, Wattana, Bangkok 10110, Thailand
TEL: +66-2-261-0175 FAX: +66-2-261-0172

ZEON CORPORATION

1-6-2 Marunouchi, Chiyoda-ku, Tokyo 100-8246, Japan
TEL: +81-3-3216-1772 FAX: +81-3-3216-0501
http://www.zeon.co.jp



• Photographs and illustrations in this corporate profile are intended to show examples of applications and not examples of actual use.

August 2020
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