

# RIMTEC

## RIMTEC Corporation

### Business Description

Sales of RIM (reaction injection molding) compound and molded products

Established in 2003, Rimtec has an integrated production system starting from the raw material dicyclopentadiene to the final compound. We bring together original compounding, molding, and design technologies to produce and sell a wide variety of molded products such as homebuilder materials and automotive bumpers. Our head office is located in Tokyo. We have a research laboratory and the subsidiary Zeon Rim in Zeon Corporation's Mizushima Plant, and the subsidiary Telene S.A.S. (France) with an R&D function in France. We also have a U.S. sales office, Zeon Chemicals L.P.

### No. of Employees

As of March 31, 2019: 26 (22 men, 4 women)

Hiring in FY 2018: 2 (1 man, 1 woman)



Mizushima Plant

Examples of molded products



Bathtub unit

Truck bumper



Water purification tank

## Company Policy (Executive Message)

RIM molding using the raw material dicyclopentadiene is an innovative energy-saving, resource-saving technology for producing large molded products that are lightweight and feature excellent shock resistance.

Conventional applications were primarily construction and agricultural machinery body panels and water purification tanks, but in recent years, use has expanded to truck and bus body panels as well as electrical and electronic applications that take advantage of low viscosity and good filling properties in an attempt to contribute to improvement of the global environment through reduction of CO<sub>2</sub> emissions.

Rimtec seeks to contribute to improvement of the global environment by expanding our business for environmentally-friendly RIM blended compound for molding while contributing to employment at production contractors and customers, and revitalize local communities.



President  
Yoshio Umezawa

## Safety Initiatives

### Policy

Safety First! Employees act responsibly and coordinate closely with production contractors and customers to achieve zero accidents and disasters.

### Specific Initiatives

#### 1. Production quality meetings with production contractors (monthly)

•We report on production and quality management, and provide education on chemical substance regulations and accident case studies.

#### 2. Mutual inspections with production contractors (twice/year)

•Rimtec research laboratories, Zeon Rim, and production contractors jointly perform mutual RC activities, 5S and safety inspections.

### 3. Customer safety education (once/year)

- Distribute safety education materials to all customers
- Conduct briefings on the latest versions of laws and regulations
- Visit new customers to give guidance

### 4. Corporate culture development (twice/year)

- Since FY 2015, we have been conducting mutual 5S safety activities with production contractors.
- Since FY 2017, we have been carrying out monthly productivity improvement activities for production contractors, in collaboration with the NPS Promotion Group at Zeon's Production Innovation Center.
- Since FY 2018, we have been holding corporate culture reform seminars with guidance from the ZΣ Promotion Division of the Zeon Production Innovation Center and undertaking voluntary improvement measures to develop the corporate culture.

## Environmental Impact Reductions

### Policy

- Increase thermal recycling of waste plastic
- Reduce the environmental impact of substances in products based on the regulations in various countries

### Specific Initiatives

#### 1. Reducing industrial waste discharge

We have been working to reduce landfill waste since FY 2015 and have made further reductions by establishing a route for sorting and recovering middle insert components in waste plastic, recycling metal components, and conducting thermal recycling of waste plastic components.

#### 2. Compliance with the laws and regulations of applicable countries

We confirm the laws and regulations of various countries with our global subsidiaries, and are targeting product development and sales expansion to reduce environmental impact.

#### 3. Environmental Data

\*"0" indicates less than 0.5 tons, and "0.0" indicates less than 0.05 tons

Rimtec Corporation		FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Substances subject to the PRTR Act	No. of substances	0	0	0	0	0
	Consumption (tons)	0	0	0	0.0	0.0
	Emissions (tons)	0.0	0.0	0.0	0.0	0.0
Industrial waste	Amount generated before compacting (tons)	23	31	39	7	53.5
	Amount sent to landfills (tons)	1.3	0.0	0.3	0.0	1.2
Water resource consumption (1,000 m <sup>3</sup> ) (industrial water + groundwater + waterworks)		1.5	1.5	1.4	1.9	1.4
CO <sub>2</sub> emissions (tons)		110	103	152	136	149
Energy consumption (crude oil equivalent, kL)		90	89	78	68	77



Product reviews at Three-Region Technology Meetings

## Relationship with Employees

### Policy

We strive to be a company that understands and welcomes the diverse values and backgrounds of employees regardless of gender, age, nationality, or other attribute, and where employees can take pride in working. We are focused on developing world-class human resources.

### Specific Initiatives

#### 1. Development of world-class human resources

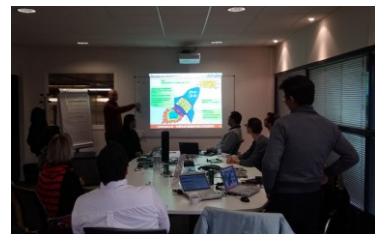
- Participate in overseas regulatory seminars
- Participate in international research conferences
- Overseas technical instruction for operations staff (China, Thailand)



Technical guidance by our operations staff for a new customer (People's Republic of China)

#### 2. Sharing our values

- We formulated the Mission Statement of Global RIMTEC Group to establish global values.
- Through the holding of Taimatsu (Torchlight) activities, we are working to strengthen dialog within the RIMTEC Group, and to enhance the collaborative relationship between Group member companies.
- We are encouraging all RIMTEC Group employees to ambitiously challenge themselves to realize their goals for 2020.



Taimatsu (Torchlight) activities conducted jointly by three regions

## Relationship with the Local Community

Grow together with the community and contribute to community revitalization, leading to the sustained development of Rimtec.

### Specific Initiatives

#### 1. Participation in Omoshiro Taiken (fun experience), a public event held at Okayama Research Park

Omoshiro Taiken, which is organized by Okayama Prefectural Government and has been held every year since 2012. Large numbers of people inside and outside Okayama Prefecture were impacted by the torrential rains and flooding that occurred in western Japan in FY 2018, and as a result, the event was suspended. This event provides children with the opportunity to experience science and technology in a fun manner. Children are able to visually experience the processes by which the raw materials based on the chemical reactions that we use to produce resin, and we will continue this program in FY 2019.

#### 2. R&D through industry-university collaboration

The Rimtec research laboratory conducts joint research on fundamental technologies with Okayama University and Hiroshima University.

#### 3. Industry creation in the Chugoku region

We hold regular seminars with Okayama University, Hiroshima University, and the Chugoku Industrial Innovation Center (a public body).



Regular seminar

#### 4. Presentations at international conferences

- We have given presentations on our research findings regarding hydrocarbon-based thermosetting resin at international conferences organized by the Institute of Electrical and Electronics Engineers (IEEE) held

in Mexico.

- We have given presentations on our research findings regarding the mechanical properties of low-viscosity thermosetting resin at  $-196^{\circ}\text{C}$  at the Cryogenics and Superconductivity Society of Japan autumn 2018 conference held in Yamagata City.
- We have published one paper that was written jointly with Kyushu Institute of Technology, and one that was written jointly with Tokyo City University.