THE FREUDENBERG GROUP

Freudenberg is a global technology group that strengthens its customers and society long-term through forward-looking innovations.

Together with its partners, customers and research institutions, the ten Freudenberg Business Groups develop leading-edge technologies, and excellent products and services for more than 40 markets and thousands of applications: seals, vibration control components, technical textiles, filters, specialty chemicals, medical products, and the most modern cleaning products.

Across the globe, the Freudenberg Group’s products and services make a valuable contribution to customers’ success – often invisible, but always essential and in keeping with the company’s positioning “Freudenberg is a values-based technology group that best serves its customers and society”.

Without Freudenberg, indoor air would not be as clean, cars would not drive, suits would not sit properly and wounds would not heal as quickly. Freudenberg offers customers excellent high technology and innovative products, and services in the passenger vehicle and commercial vehicle industries, mechanical and plant engineering, textile and apparel, construction, mining and heavy industry, energy, chemical, and the oil and gas sectors. Customers also include companies in the medical technology, civil aviation, and rail vehicle sectors.

Innovation, strong customer focus, close cooperation, diversity, and team spirit are the cornerstones of the Group. Commitment to excellence, reliability and proactive, responsible action have been part of the company’s core values as practiced for 170 years.
Freudenberg is an enterprise of entrepreneurs. The operations are run by independent companies whose management acts independently. The individual companies are part of Business Groups.

Freudenberg has two parent companies: Freudenberg & Co. Kommanditgesellschaft (Freudenberg & Co. KG), Weinheim, Germany, is the strategic parent company; Freudenberg SE, Weinheim, Germany, is the parent company responsible for managing business operations.

The Freudenberg & Co. KG corporate bodies are the Management Board, the Board of Partners and the General Meeting. The corporate bodies at Freudenberg SE are the Board of Management, the Supervisory Board and the Shareholder’s Meeting. The Management Board of Freudenberg & Co. KG and the Board of Management of Freudenberg SE have the same members, which is also true of the Board of Partners of Freudenberg & Co. KG and the Supervisory Board of Freudenberg SE.

Freudenberg is a family-owned company and currently owned by some 320 heirs to the founding father Carl Johann Freudenberg.
<table>
<thead>
<tr>
<th>Business Area</th>
<th>Business Groups</th>
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<tbody>
<tr>
<td>Seals and Vibration Control Technology Business Area</td>
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<tr>
<td></td>
<td>Freudenberg Sealing Technologies</td>
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<td>Freudenberg Oil &amp; Gas Technologies</td>
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<td>EagleBurgmann</td>
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<td>Freudenberg Medical</td>
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<td>Vibracoustic</td>
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<td>Business Area Nonwovens and Filtration</td>
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<td>Freudenberg Performance Materials</td>
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<td>Freudenberg Filtration Technologies</td>
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<td>Japan Vilene Company</td>
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<td>Business Area Household Products</td>
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<td></td>
<td>Freudenberg Home and Cleaning Solutions GmbH,</td>
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<td>Business Area Specialties and others</td>
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<tr>
<td></td>
<td>Freudenberg Chemical Specialities</td>
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<td></td>
<td>Business Area</td>
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<td></td>
<td>Freudenberg Business Services</td>
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<td>Freudenberg Service Support</td>
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TECHNOLOGY AND DEVELOPMENT PARTNER

MOBILITY AND TRANSPORT
Whether by road, water, rail or air: Freudenberg technology helps motors and other parts work reliably. We use sealing, vibration control or filtration technology, technical textiles, durable bearings, specialty chemicals or surface treatment and galvanization technology to make mobility and transport around the world safer, more efficient and more comfortable.

ENERGY AND RESOURCES
Fossil fuel exploration and transport is extremely challenging. Responsible handling of renewable energy demands innovative applications. Freudenberg contributes to improved functional reliability, operating lives and the best possible environmental protection throughout the energy industry.

INDUSTRY AND PRODUCTION
The competitiveness of industrial companies depends on the smoothest and most efficient production possible. Reliable and tailored Freudenberg components help ensure long-term productivity and quality - whether for seals, filters, release agents, specialty lubricants or technical textiles. Our products are found in almost all industries, production processes and systems.
IN MANY INDUSTRIES

Our product range includes gas-lubricated mechanical seals in pipelines, complete filtration systems for power plants and miniature silicon plugs for the electronics industry.

HEALTHCARE AND FOOD PROCESSING INDUSTRY

Strict hygiene standards must be met for healthcare products and food processing. The high material competency and process reliability make Freudenberg a sought-after partner for customers in the medical technology and pharmaceutical industries. Our medical innovations simplify surgical intervention and improve wound treatment. In the food industry, we help process confectionery along with other food types. Efficient drinking water treatment often uses Freudenberg technology.

HOUSEHOLD AND TEXTILES

Even everyday products are based on sophisticated technology. Freudenberg’s innovation strength can be found in microfiber cloths or electric window vacuums. Our technical textiles allow for comfortable sofas, well-fitted textiles and mite-free bedding.

They are used to manufacture shoes and leather goods, or protective clothing. The filter applications also help keep interior air clean.
Freudenberg Sealing Technologies is a leading market and technology partner for demanding applications, including sealing technology and electro-mobility. Starting with the invention of the Simmerring, developed by Freudenberg in 1932, the Business Group now has a broad customer-oriented product portfolio – from tailor-made individual solutions to complete sealing packages and components for electric vehicles.

The company is a supplier, development and service partner for customers across various sectors, such as the automotive industry, civil aviation, mechanical engineering and shipbuilding, and many more. FST’s partnership with NOK Corporation, Tokyo, Japan, has created a global network offering products with the same consistently high quality. Dichtomatik is the sales organization for technical seals and Corteco the specialist for the independent automotive spare parts market.
Freudenberg Oil & Gas Technologies provides innovative sealing solutions and products to the global oil and gas industry. The Business Group focuses on upstream applications, i.e. those used in extraction and production. The Group also develops and markets products for drilling / BOP (pressure control), wellhead equipment, fracturing services, offshore oil and gas platforms as well as underwater applications.

The company supplies a wide range of customers; including oil and gas producers, original equipment manufacturers and engineering and service companies that provide technology, equipment and services for onshore and offshore oil and gas production around the world.

The Business Group has a material and product testing laboratory to develop and test new materials and solutions.
EagleBurgmann is a leading international manufacturer of industrial sealing technology. The Business Group manufactures and markets a broad range of high-quality products, from technologically advanced customer-specific solutions to large-batch products for pumps, compensators and agitators.

EagleBurgmann’s products are common when safety and reliability are most important, including the oil and gas industry, refineries, chemical production, pharmaceuticals, energy, food processing, paper production, water treatment, shipbuilding, aerospace and mining. A dense sales and service network means close customer proximity.

EagleBurgmann Germany
GmbH & Co. KG
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Germany
Phone: +49 8171 230
Fax: +49 8171 231214
E-Mail:
info@eagleburgmann.com
www.eagleburgmann.com

**PRODUCTS / SERVICES**
Liquid and gas-lubricated mechanical seals and seal supply systems, magnetic couplings, carbon floating ring seals, flat gaskets and stuffing box packings, compensators, TotalSeal-Care services with commissioning, repair and damage analyses; seminars and practical training

**SITES**
In the regions of the Americas, Asia-Pacific, China, EMEA, India, Japan

**EMPLOYEES**
Approx. 5,640
Freudenberg Medical is the global partner for the design, development and production of innovative medical products. The company’s product range includes catheter solutions for minimally invasive procedures and components manufactured from complex medical materials.

The company is a leader in both high-precision molded silicone and thermoplastic components and tubes as well as metal hypotubes.
Vibracoustic is a global leading NVH (noise, vibration, harshness) expert for the automotive industry and provides tailored solutions that offer more comfort, while contributing to efficiency, safety and the operating life of vehicles. Thanks to knowhow throughout the entire product life cycle and in all vehicle systems, Vibracoustic’s broad product palette has the answer to current and future NVH challenges in all vehicle segments.

With a global network of development and production sites, the Business Group supplies almost all car and truck manufacturers as well as their direct suppliers and can significantly improve on-board comfort.
Freudenberg Performance Materials is a leading global supplier of innovative technical textiles for a wide range of markets and applications, including automotive, construction, clothing, hygiene, medical, footwear and leather goods, as well as special applications.

The Business Group is a pioneer in nonwovens and has 23 production sites in 13 countries around the world.

**PRODUCTS / SERVICES**

- Interlinings for clothing, functional textiles and hobby tailoring; substrates for automotive carpets, headliners, sound-absorbing materials, components for batteries and fuel cells; substrates for bitumen membranes, tufted carpet tiles; functional components for baby diapers, incontinence and feminine hygiene, as well as wound, stoma and transdermal applications; components for footwear and leather goods, nonwovens for electrical applications, allergenic bedding, packaging.

**SITES**

- Brazil, China, Germany, France, India, Italy, Russia, Spain, South Africa, South Korea, Taiwan, UK, USA

**EMPLOYEES**

- Approx. 3,690
FREUDENBERG FILTRATION TECHNOLOGIES

Freudenberg Filtration Technologies is a global development, production and application specialist for air and liquid filtration. The Business Group’s solutions help make its customers’ industrial processes more efficient, conserve resources, protect people and the environment, and thus help improve quality of life.

As a globally renowned partner for highly effective, reliable, energy efficient filtration designs, Freudenberg Filtration Technologies is dedicated to competency in the automotive & transport, energy & resources, hygiene & health, production & building technology industries and to technologically sophisticated special applications. System solutions such as the development, installation and the operation of complete filtration solutions as well as wide-ranging services for air and water quality management complement the market-oriented, innovative product portfolio.

Products / Services

Elements, system solutions and services for the filtration of intake and exhaust air in industrial processes and end-user applications; water and membrane filtration systems, automotive cabin air filters and engine intake air filters, filter measurement technology; training and consulting

Sites

Australia, Brazil, China, Germany, India, Italy, Japan, Mexico, Slovakia, South Africa, South Korea, Thailand, USA

Employees

Approx. 2,130
Since its founding in 1960, the Japan Vilene Company has been the leading nonwoven manufacturer on the Japanese market. The company’s motto, “Engineering Fabric Innovation” stands for the long-term material competency and extensive knowhow in production processes and technologies as well as the processing of nonwovens. The Japan Vilene Company provides a broad product portfolio for various applications in the automotive, medical, electrical and industrial segments. The company has also expanded its business to include automotive floor mats around the world. Japan Vilene Company operates 16 production sites around the world, including two main sites in Japan.

Working in close cooperation with Freudenberg Performance Materials and Freudenberg Filtration Technologies, Japan Vilene Company operates a network of production and sales joint ventures throughout Asia.

Japan Vilene Company Ltd.
Hama-rikyu Mitsui Bldg.
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Tokio 104-8423 | Japan
Phone: +81 3 4546 1111
Fax: +81 3 4546 1105
E-Mail: p-relations@vilene.co.jp
www.vilene.co.jp

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<tr>
<th>SITES</th>
<th>EMPLOYEES</th>
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<tbody>
<tr>
<td>China, Germany, Japan, Mexico, South Korea, Taiwan, Thailand, USA</td>
<td>Approx. 2,700</td>
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PRODUCTS / SERVICES
Vehicle headliners, floor mats and interior filters for the automotive industry; filter media and units; battery separators for hybrid vehicles and the end consumer market; as well as other industrial nonwovens; elastic base materials for transdermal products and particulate respirators, angiography sets and other medical products; interlinings and facial masks; fibers made from recycled plastic bottles.
FREUDENBERG HOME AND CLEANING SOLUTIONS

PRODUCTS / SERVICES

Floor cleaning systems, household cloths, cleaning articles, household gloves, laundry care products such as ironing boards and clothes dryers, cleaning systems for professional applications

Freudenberg Home and Cleaning Solutions is a leading international company for branded cleaning products and systems as well as laundry care products. The products are sold under the brand names vileda, O-Cedar, Wettex, Gala, Marigold, SWASH and Framar.

Detailed market expertise, innovation, effective new products and a strong customer focus all help the company succeed. International market and customer research, innovation centers and production facilities in all regions of the world, as well as a dedicated sales network in more than 35 countries also help the company thrive.

SITES

Australia, Belgium, Canada, Chile, China, Denmark, Finland, France, Germany, Greece, Hong Kong, Hungary, India, Italy, Jordan, Mexico, Netherlands, New Zealand, Norway, Poland, Portugal, Russia, Serbia, Slovenia, South Korea, Spain Sweden, Taiwan, Thailand, Turkey, UK, USA

EMPLOYEES

Approx. 3,270
The Freudenberg Chemical Specialities Business Group includes the independently operating companies of Klüber Lubrication, Chem-Trend, SurTec, OKS and Capol. Klüber Lubrication is one of the world’s leading manufacturers of specialty lubricants. Chem-Trend is the world market leader for release agents used in the production of molded parts from composite materials, rubber, plastics, metal and polyurethane. SurTec is a leading supplier of chemical specialties for surface treatment and electroplating. OKS specializes in performance lubricants and products for maintenance and repair. Capol is a leading worldwide provider of confectionery coatings and supplies glazes, release agents, sealing agents, pigments, vanilla extract as well as other specialty products.

**FREUDENBERG CHEMICAL SPECIALITIES**

### PRODUCTS / SERVICES

- Oils, greases, waxes, pastes, bonded coatings, dry and solid lubricants, anti-corrosion products, chemo-technical maintenance products, hydraulic oils, cleaning agents, release agents for die casting; composites, rubber and polymer processing, products for surface pretreatment, industrial parts cleaning and electroplating; glazes, release and sealing agents for the confectionery industry

### SITES

- Argentina, Australia, Austria, Belgium, Brazil, Chile, China, Croatia, Czech Republic, Denmark, Finland, France, Germany, India, Indonesia, Italy, Japan, Malaysia, Mexico, Netherlands, Norway, Poland, Portugal, Romania, Russia, Serbia, Singapore, Slovakia, Slovenia, South Africa, South Korea, Spain, Sweden, Switzerland, Thailand, Turkey, UAE, UK, USA, Vietnam

### EMPLOYEES

Approx. 3,640

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www.fcs-munich.com
As an internal service provider, Freudenberg Business Services combines administrative activities across Business Groups and regions. Freudenberg can thus generate economies of scale and make standard processes carried out regularly and on a large scale more efficient.

Doing so, relieves pressure on the Business Groups, allowing them to concentrate on their core business, their customers and markets.

**SITES**

*China, Germany, USA*

**EMPLOYEES**

*Approx. 120*
Freudenberg Service operates the industrial parks in Weinheim und Neuenburg. The business includes the Freudenberg Service KG and Freudenberg Verpflegungsdienste KG companies, both located in Weinheim.

Freudenberg Service offers customers a comprehensive range of services — occupational health and preventive health care, energy supply, information and communication technology, catering and hazard prevention such as plant security and fire services.

A modern trigeneration plant (CCHP) at the Weinheim site provides environmentally friendly energy generation and supply. The training center run by Freudenberg Service is one of the leading institutions of its kind in the Rhine-Neckar region.

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<tr>
<th>SITE</th>
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<tr>
<td>Germany</td>
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Freudenberg Service KG
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Germany
Phone: +49 6201 80 0
Fax: +49 6201 88 0
E-Mail: info@freudenberg-service.de
www.industriepark-weinheim.de

**PRODUCTS / SERVICES**

- Energy services; security services; fire protection; occupational health and safety; information and communication technology; continuing education and training; food services
FREUDENBERG & CO. KOMMANDITGESELLSCHAFT

Freudenberg & Co. Kommanditgesellschaft is the strategic management company for the Freudenberg Group. It comprises the Management Board, the Board of Partners, the General Meeting and the Corporate Functions.

The Management Board decides on fundamental strategic issues facing the Group. The Corporate Functions guide, coordinate and monitor Group activities. They define Group-wide guidelines and support the Business Groups as consultants and service providers.

*The Corporate Functions of Freudenberg Technology Innovation, Corporate Insurance and Freudenberg Real Estate are independent companies external to the Freudenberg & Co. Kommanditgesellschaft.

SERVICES

*Corporate functions: Corporate Legal; Corporate Tax and Customs; Corporate Information Technology; Corporate Treasury and Finance; Corporate Partners’ Relations; Freudenberg Technology Innovation*; Corporate Controlling and Accounting; Corporate Human Resources; Corporate Strategic Planning and Business Development; Corporate Health, Safety, Security, Environment; Corporate Communications; Corporate Insurance*; Corporate Audit; Freudenberg Real Estate*

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Fax: +49 6201 88 0
www.freudenberg.com

SITE GERMANY

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<tr>
<td>Kommanditgesellschaft</td>
<td>Approx. 220</td>
</tr>
<tr>
<td>Corporate Functions* in independent companies</td>
<td>Approx. 310</td>
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</table>
Freudenbeg SE is the operational management company for the Freudenberg Group. It carries out the company’s strategic decisions.

The corporate bodies at Freudenbeg SE are the Board of Management, the Supervisory Board and the Shareholder’s Meeting.

The Management Board of Freudenberg & Co. Kommanditgesellschaft and the Board of Management of Freudenbeg SE have the same members, which is also true of the Board of Partners of Freudenberg & Co. KG and the Supervisory Board of Freudenbeg SE.

The Board of Management shares joint responsibility for the Group.
## KEY FIGURES

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<tr>
<th>[in million euros]</th>
<th>2017</th>
<th>2018</th>
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<tbody>
<tr>
<td>Sales</td>
<td>9,345.6</td>
<td>9,455.4</td>
</tr>
<tr>
<td>Profit or loss before income tax</td>
<td>883.1</td>
<td>835.3</td>
</tr>
<tr>
<td>Consolidated profit or loss</td>
<td>700.1</td>
<td>602.4</td>
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<tr>
<td>Employees (12/31)</td>
<td>47,653</td>
<td>49,137</td>
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### Business Areas

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<tr>
<th>Business Areas</th>
<th>2017</th>
<th>2018</th>
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<tr>
<td>Seals and Vibration Control Technology*</td>
<td>5,412.5</td>
<td>5,506.4</td>
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<tr>
<td>Nonwovens and Filtration*</td>
<td>1,909.4</td>
<td>1,899.2</td>
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<tr>
<td>Household Products*</td>
<td>938.4</td>
<td>931.4</td>
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<tr>
<td>Specialties and others*</td>
<td>1,342.3</td>
<td>1,374.0</td>
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### Employees (12/31)

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<td>Seals and Vibration Control Technology</td>
<td>31,686</td>
<td>32,451</td>
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<tr>
<td>Nonwovens and Filtration</td>
<td>8,175</td>
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<td>Household Products</td>
<td>3,030</td>
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<td>Specialties and Others</td>
<td>4,762</td>
<td>4,892</td>
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* Including intra-company sales
SALES BY SECTOR [in %]
At-equity
- Energy and water supply 4
- Textiles and apparel 5
- Spare parts business 5
- Final users 10
- Mechanical and plant engineering 12
- Construction 4
- Chemical 3
- Medical and pharmaceuticals 4
- Other Industries 9
- Automotive OEMs 44

SALES BY REGION [in %]
At-equity
- Africa/ Australia 2
- Asia 21
- South and Central America 3
- North America 26
- Germany 17
- EU (excluding Germany) 26
- Other European countries 5
To improve legibility we have not included registered trademarks in this Group Profile.