
THE FREUDENBERG SPIRIT



EXCELLENT TECHNOLOGIES. ONE SPIRIT.

DIVERSE INDUSTRIES. ONE SPIRIT.

COUNTLESS INNOVATIONS. ONE SPIRIT.

VALUES IN PRACTICE. ONE SPIRIT.

JOINT RESPONSIBILITY. ONE SPIRIT.

TECHNOLOGIES
WITH A FUTURE.
PEOPLE WITH SPIRIT.





FREUDENBERG—a global technology group with roughly 50,000 employees in some 60 countries and annual sales of roughly 10 billion euros*. So much for the facts and figures. But what about the spirit? What drives us? Commitment to excellence is how we help our customers advance. The industrial diversity that allows for ever more new applications. The innovation strength from our many years of material, system and technology competence, inspired by diverse teams. Values that have guided us for nearly 170 years. And the determination to take responsibility for the environment and society. The sum of it all equals the Freudenberg Spirit.

* Status: 2019

ARE FREUDENBERG



EXCELLENT TECHNOLOGIES. ONE SPIRIT.

That makes us a unique leading
technology group
and development partner



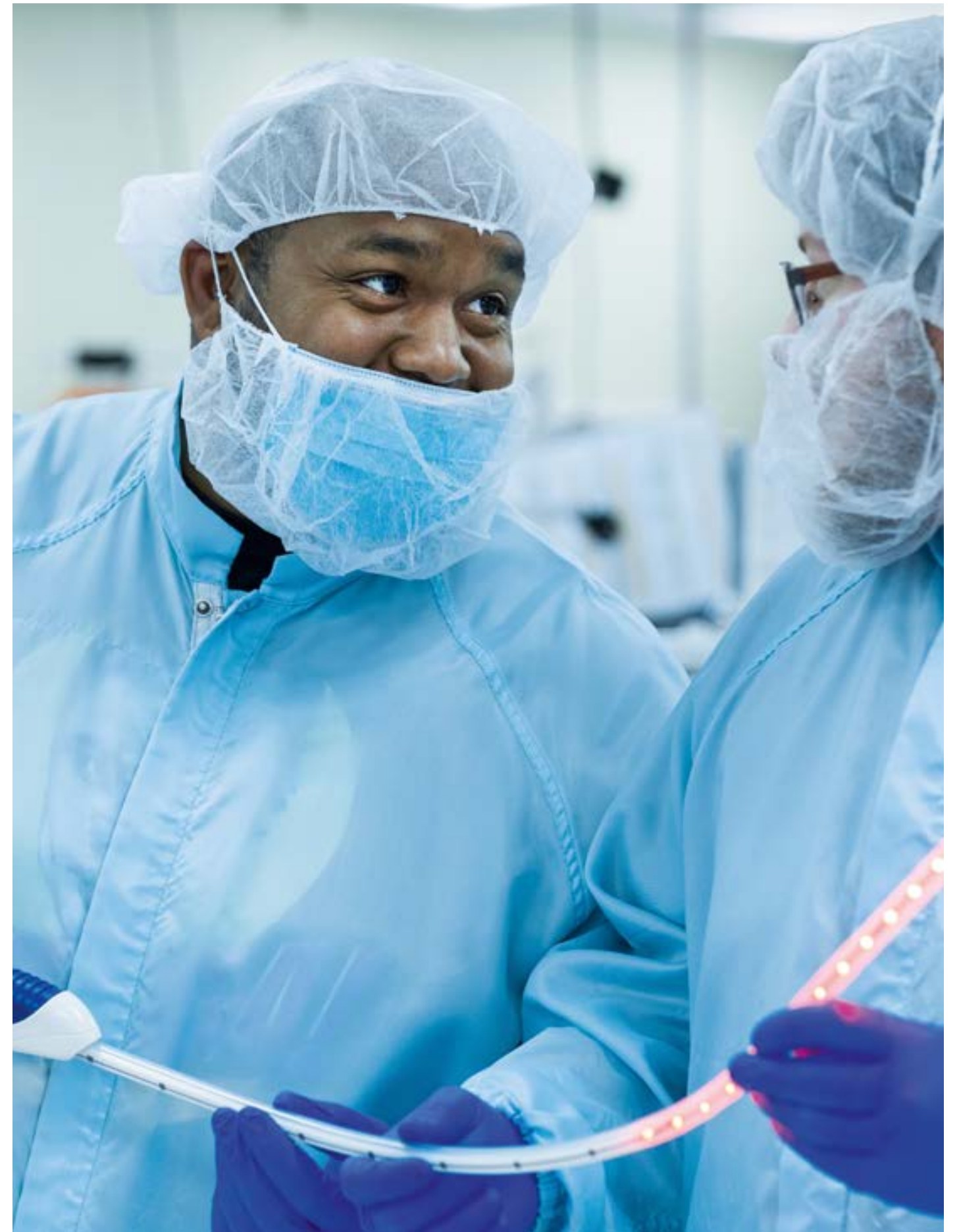
EXCELLENCE FOR SUCCESSFUL CUSTOMERS

As a global technology group and development partner to our customers, we set standards in technology, innovation and quality. Working closely with colleagues from various industries, with customers, partners, and the scientific community, we develop leading-edge technology products, solutions and services. With this promise, we make a valuable contribution to our customers' long-term success.

Every day, all our employees contribute – through entrepreneurial thinking and action, through independent initiative

and readiness to take on responsibility. Our promise of excellence makes complex manufacturing processes and high-technology products possible. Their use is not always visible, but often essential.

Without Freudenberg, indoor air would not be as clean, cars would not drive, and wounds would not heal as quickly. And these are just three examples from the thousands of applications.






DIVERSE INDUSTRIES. ONE SPIRIT.

The markets we serve
with our products,
solutions and services



FIVE MARKETS. 40 MARKET SEGMENTS. THOUSANDS OF APPLICATIONS.

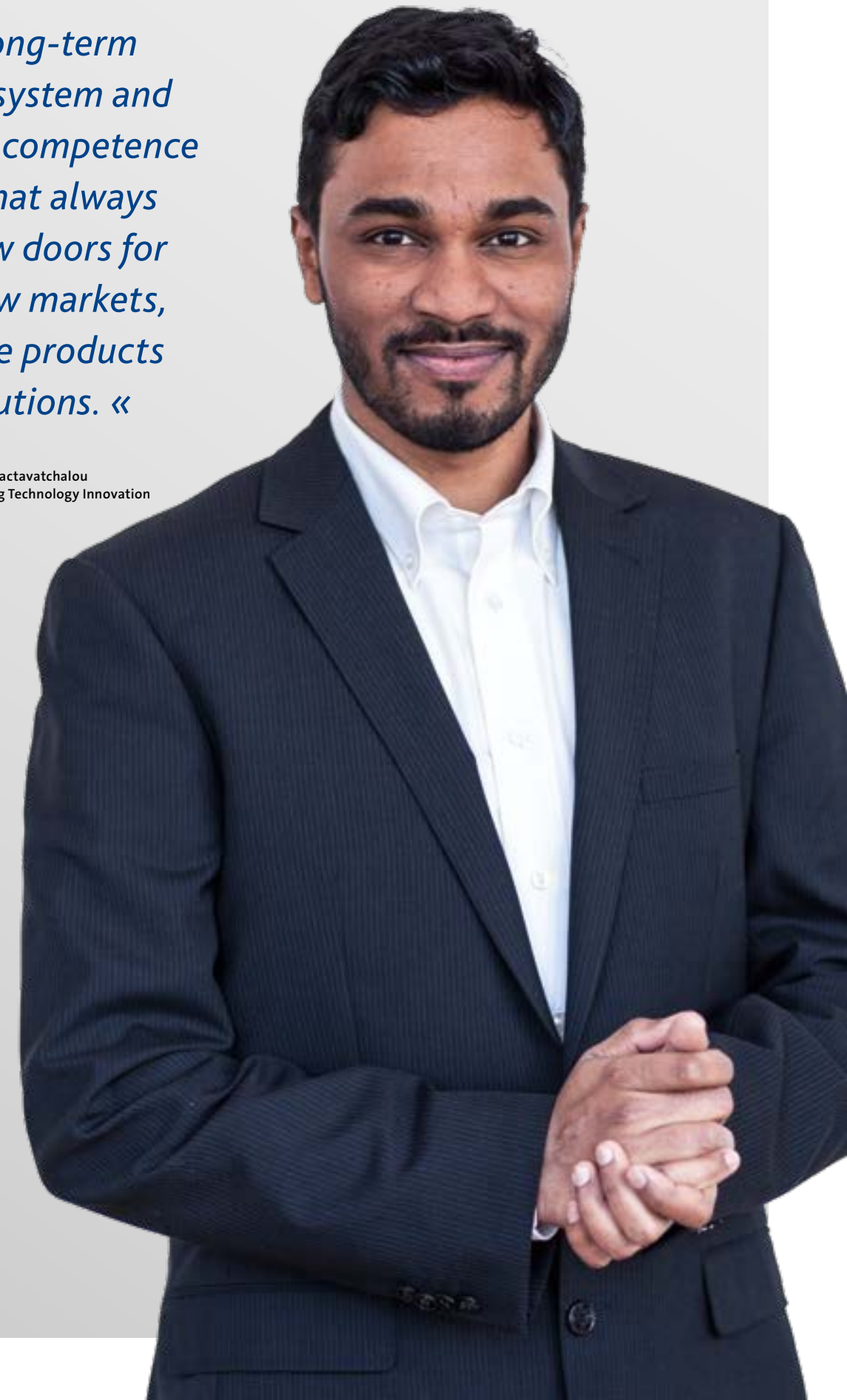
When technology, complex processes
and sophisticated products work reliably,
Freudenberg is often behind it

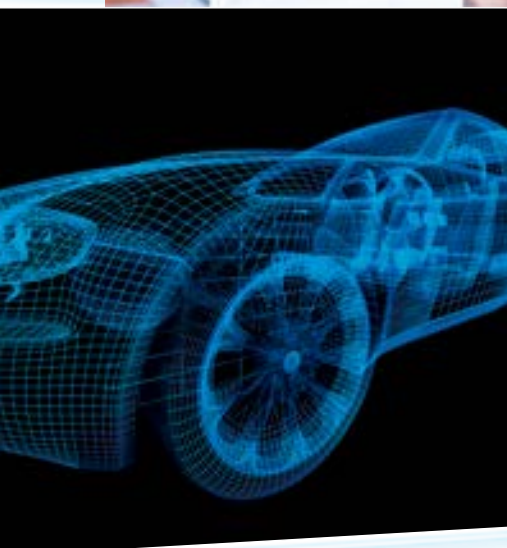


We use our long-term material, system and technology competence along with the expertise of specialists in some 60 countries around the world to develop leading products, excellent services and forward-looking solutions. These include seals, vibration control components, technical textiles, filters, specialty chemicals, medical products and the most modern cleaning products. We provide hidden high performance and high tech, while also being in the midst of life – a normal day is almost unthinkable without Freudenberg.

*» Our long-term
material, system and
technology competence
is a key that always
opens new doors for
us – to new markets,
innovative products
and solutions. «*

Dr. Ravindrakumar Bactavatchalou
Head of Tribology, Freudenberg Technology Innovation





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. The responsible use of renewable energy requires innovative applications. Freudenberg contributes to improved functional reliability, operating lives and the best possible environmental protection throughout the energy industry. Our product range includes gas-lubricated mechanical seals in pipelines, complete filtration systems for power plants and miniature silicon plugs for the electronics industry.



INDUSTRY AND PRODUCTION

The competitiveness of industrial companies depends on the smoothest and most efficient production possible. Reliable and tailored components from Freudenberg help ensure long-term productivity and quality – whether for seals, filters, release agents, special lubricants or technical textiles. Our products are present in almost all industries, production processes and systems.



HEALTHCARE AND FOOD PROCESSING

When it comes to health and nutrition, extremely high hygiene standards must be met. Our high material competency and process reliability make Freudenberg a popular partner for customers in the medical technology and pharmaceutical industries. Our medical innovations simplify surgical intervention and improve wound treatment. In food processing, we help process confectioneries along with other food types. Efficient drinking-water treatment often uses Freudenberg technology.



CLEANING 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 are vital to comfortable sofas, properly fitting clothes and mite-proof bedding. They are used to manufacture shoes and leather goods or protective clothing. The filter applications also help keep interior air clean.





COUNTLESS INNOVATIONS. ONE SPIRIT.

How we develop
forward-looking solutions
in diverse teams





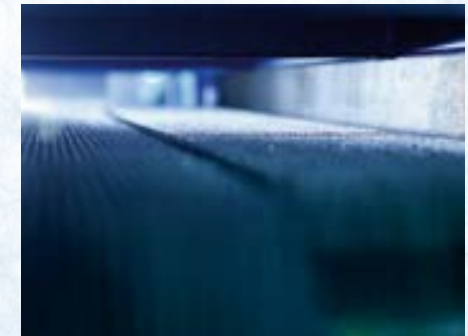
» Innovations create competitive advantage. As a technology group and development partner, we see things from our customers' perspective and help them succeed. «

Dr. Alexander Rozmán
Senior Vice President Industrial Services,
Freudenberg Sealing Technologies

SUCCESSFUL THROUGH CHANGE

INNOVATION AS A DRIVING FORCE

The story of Freudenberg's success is one of innovation. The permanent drive to work together and create something new, to master future challenges, is vital to stable and profitable growth. The world is constantly changing. With our unique material, system and technology competence, we are always ready to face new developments and take an active role in shaping them. Starting with chrome tanning, the Simmerring radial shaft seal and sophisticated components in medical technology or for mobility: for nearly 170 years, we have found forward-looking solutions to help our customers succeed and make development more sustainable for the environment and society.



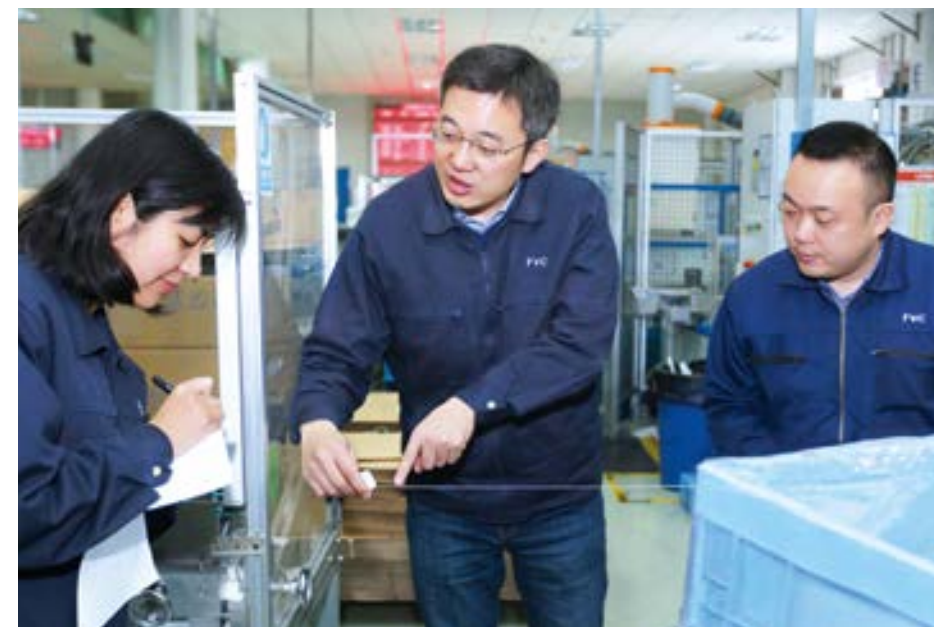


DIVERSITY AS A CREATIVE RESOURCE

IN-DEPTH EXPERTISE, BROAD DIVERSIFICATION

Innovation strength at Freudenberg is created in diverse teams through the interplay of different knowledge and skills. “Innovating Together” is thus our motto. People of various ages and genders and different cultural backgrounds inspire one another. And when individual experience, capabilities and skill are part of collaboration, new paths will open. For solutions that give answers to tomorrow’s questions.

An open innovation culture and creative flexibility is also possible through our special technologies for a wide variety of industries and markets. Freudenberg is broadly diversified – and we continue to develop with every new task. Our promise is a deep understanding of customer needs and top-quality products and processes as well as excellent services. We see ourselves as technology leaders and equals; as a development partner, assisting in the entire product development process – covering everything from finding an idea to prototyping and production.





TODAY'S INNOVATIONS, TOMORROW'S SUCCESS STORIES

Many challenges lead to innovations – including new regulations and legislation, such as those for sustainability, increasing quality, and the integration of additional functions and realization of completely new technologies. At Freudenberg, innovations in all possible forms are conceived and implemented.

And they often provide answers to the most important megatrends of our time, such as those in mobility. Combustion engines, hybrid technologies, fuel cells and pure electric vehicles or autonomous vehicles – the opportunities to move from one location to the next are getting more varied.

MEGATREND MOBILITY



As a leading supplier to the automotive industry with more than 80 years of experience in the market, we have a broad basis. We are working at

full speed on innovative products and solutions for the mobility concepts of tomorrow and are keeping an eye on all drive types.



MEGATREND DIGITALIZATION

Digital transformation is encompassing and changing the entire value chain at companies. We see digitalization as an opportunity to better understand customer wishes and fulfill them faster and more precisely. Even as product-cycle times shorten, we will continue to design our

products and services innovatively and efficiently. We see digitalization as a business model that both improves our competitiveness in existing markets and opens new prospects that we are ready to pursue.



◀ DRIVING DIGITAL NETWORKING

As an Industry 4.0 pioneer, we are a driving force for the integration of production controls and Enterprise Resource Planning systems in production and automotive industries.



VALUES IN PRACTICE. ONE SPIRIT.

What fundamentals
and principles guide our
thoughts and actions

Allgemeine Betrachtungen von:

Es giebt, allgemein gesprochen, zwei
grundsätzliche Arten von Verträgen die man
unterscheiden kann:

1. Verträge die auf die Befriedigung
eines, oder
2. Verträge die auf die Befriedigung
mehrerer Bedürfnisse beruhen: diese
sind, und sind meistens auch, in der Regel
als Verträge zu betrachten.

Es ist nicht zu verkennen, daß die
Verträge, die auf die Befriedigung eines
Bedürfnisses beruhen, meistens aus
dem Kopf, und nicht aus dem Herzen
kommen, und die Verträge, die auf die
Befriedigung mehrerer Bedürfnisse
beruhen, meistens aus dem Herzen
kommen.

Der Vertrag, der auf die Befriedigung
eines Bedürfnisses beruht, ist meistens
aus dem Kopf, und nicht aus dem
Herzen, und ist meistens aus dem
Kopf, und nicht aus dem Herzen.

Der Vertrag, der auf die Befriedigung
mehrerer Bedürfnisse beruht, ist meistens
aus dem Herzen, und nicht aus dem
Kopf, und ist meistens aus dem
Herzen, und nicht aus dem Kopf.

*» Humility,
honesty, a solid
financial basis
and the ability
to adapt to
any changes. «*



Carl Johann Freudenberg
His management principles
form the basis of our business
principles today.

VALUES THAT HAVE UNITED US

For nearly 170 years

Strong company values are the yardstick for how we think and act. They guide our daily interactions and unite employees in some 60 countries into a Freudenberg Family. And they also define the values we use when dealing with customers, business partners, neighbors and the environment. This makes us a reliable partner around the world. Freudenberg is still family-owned, making it independent, long-term oriented and responsible in its actions. What guided our company

founder Carl Johann Freudenberg still applies today. His “Allgemeinen Betrachtungen” (General Observations) from 1897 are the inspiration for our current Business Principles, which form the basis for our Guiding Principles. Every employee is an ambassador for these values and pledges to uphold an internal Code of Conduct, specifying practical workplace issues, including compliance, workplace safety, health and environmental protection.





JOINT RESPONSIBILITY. ONE SPIRIT.

Why we always see financial
success and responsibility
as closely linked





SUSTAINABLE SOLUTIONS FOR A WORTHWHILE FUTURE

As a values-based, family-owned technology group, our corporate goal is not merely financial success, but always involves responsibility for society.

The two goals have been inextricably linked since the company's founding. We strive for solutions that improve living conditions around the world and support sustainable developments for the environment and society. Product and

process sustainability have always been part of responsibility practiced at Freudenberg. Sustainability has two dimensions for us.

With the goal of minimizing our own Footprint and maximizing our customers' Handprint, our sustainability measures focus on five core themes: materials, waste, energy, emissions and water.



OUR FOOTPRINT

How can we design our processes and run our sites to save resources?

OUR HANDPRINT

Which products and solutions can we develop so that our customers can produce more efficiently and sustainably or have their end products use fewer resources?



FOOTPRINT WATER, ENERGY AND EMISSIONS

The Freudenberg Home and Cleaning Solutions factory in Monselice, Italy has a block heating plant, where hot water is used to heat the production halls in winter. In addition, hot air from the ventilation system is not merely discharged

into the environment, but is used to dry wet components and to heat paint-drying furnaces. The approach is both environmentally friendly and helps cut costs.



▲ RECYCLING
HOT WATER

◀ REDUCING ENERGY
CONSUMPTION

At the nonwoven site in Parets del Vallés, Spain, energy consumption could be reduced by nearly 20 percent within a few years. The process involved countless small and a few large-scale measures to generate the desired result.

These included the insulation of pipes, the heating of production halls with an energy-efficient infrared system or the replacement of older steam-generation machines.

HANDPRINT ENERGY, MATERIALS AND WASTE

REDUCING ► MATERIAL USAGE WITH SPECIALTY LUBRICANTS

Klüber Lubrication's specialty lubricants for high load rolling and slide bearings in wind turbines reduce the shut-down time for turbines, significantly increasing productivity.



At the same time, the products protect rolling bearings from wear and increase their operational life. The operator thus has lower repair and replacement-part costs as well as lower costs for used-grease disposal. This reduces material usage and waste.



THINKING BEYOND THE VALUE CHAIN

Corporate citizenship at Freudenberg extends beyond the value chain. Our goal is to be a good corporate citizen and good neighbor in all the countries, states and communities we call home.

Thus, many companies, locations and employees are socially engaged and support a broad spectrum of projects – from small initiatives on site up to complex international programs. The following examples clearly illustrate how responsibility at Freudenberg is put into practice both inside and outside the company and over the long-term.



INTEGRATION OF REFUGEES

A Freudenberg Group-wide initiative helps cope with one of the largest challenges we now face. A special focus on supporting refugee children and youths by providing language-skills training and educational opportunities.

*» Responsibility is
an integral component
of the Freudenberg Spirit.
It is reflected in both
our quest for greater
sustainability and in
numerous aid projects. «*

Tanja Heislitz
Technical Director Sales,
Freudenberg Sealing Technologies



INTERNATIONAL PROGRAM e²

e² stands for “education and environment.” The international program aims to provide people with access to education and work and support environmental protection. The primary goal is to motivate and invite every employee to help improve society.



TRAINING CENTER IN INDIAN TSUNAMI REGION

India's Nagapattinam region in the Nadu Province south of Chennai was hit hard by a tsunami in 2004. Since 2009, Freudenberg has provided the opportunity for a dual traineeship in a charitable training center. With qualification as electricians, welders, plumbers, engine mechanics or machinists, more than 400 young people have been given a successful start to their professional lives.

ELEMENTARY SCHOOL IN EARTHQUAKE ZONE

In the aftermath of a severe earthquake, the Chinese village of Haijin in the Sichuan Province was destroyed. Freudenberg helped rebuild the school and in 2009, it reopened for some 300 schoolchildren. Contact remains close: every year, Freudenberg employees visit the school and organize various activities such as the summer-school project, tutoring and a Christmas party. In 2016, a multifunctional hall was opened.



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