CUSTOMIZED SERVICES
FOR THE PROCESS INDUSTRY
YOUR PARTNER IN THE PROCESS INDUSTRY

Premium products meet premium service
The Food, Beverage, Chemical, and Pharmaceutical Industries pose demands that are truly unique, both technologically and logistically. We offer solutions tailor-made to meet them. Our seals are of the very highest quality, while we also provide a broad spectrum of additional services — added value which goes far beyond the sealing function.

The cornerstone of our customer-specific and market developments is our material expertise. The right sealing material is the key to success. Our materials are developed for direct contact with food and pharmaceuticals. They are certified and can be used anywhere in the world, meeting the requirements of the American Food and Drug Administration (FDA) and international pharmacopoeia such as the United States Pharmacopeia.

The key element of our services is market-specific application consulting. Thanks to extensive testing and analysis facilities, statements about chemical resistance or stability can be made even before series launch. Our test plant enables seals to be optimally selected for the required CIP/SIP process. The seals can be tested in all common CIP/SIP media, such as steam or hot water, under real conditions. From our close collaboration with trade associations, we also pick up new ideas and convert them into solutions.

Freudenberg Xpress: Speed is the answer
Whether individual parts, prototypes, functional samples, or small series: With Freudenberg Xpress® you receive machined and milled seals made from the original materials from series production. The benefits are clear: speed and economy. There is no need for costly and time-intensive production of a series tool.

Advantages at a glance:
- Customer-specific services (e.g. individual packaging or surface treatment)
- Numerous technical information resources and consulting services from your contacts on site or our team of experts in Weinheim
- Various economic manufacturing methods for customer-specific and standard products
- Vast material expertise
- Local warehousing around the world
- Local Freudenberg Xpress® Service around the world

Your development and service partner in the Process Industry
Freudenberg Sealing Technologies is the world’s market leader in sealing technology. For the Process Industry, the company combines technological competence and innovativeness with a profound knowledge of the market. The result is a unique product and service portfolio. We have just one goal: your satisfaction.
FIND YOUR IDEAL PRODUCT

We are the ideal partner for minimizing the time and money you spend on development. The internal resistance database developed through years of research and collaboration with external specialists helps in selecting the suitable sealing material. We test your seal in our own test plant under regular process conditions. So you can be sure that it meets all requirements in real operation without fail.

In cooperation with our research and development facilities, we analyze cases of damage that occur in the field. This enables us to improve defective approaches or replace parts as required. FEM calculations simplify design optimization of the component and seal.

Profiles
The extrusion procedure comes into its own for difficult geometries and large seals. We use a large selection of available profile nozzles here, or produce new ones quickly. This gives us greater flexibility with regard to diameter and quantities.

If desired, endless profiles can be batch vulcanized to form rings. Thanks to butt joint vulcanization, no adhesives are required. The advantage for you is that the final product is homogeneous with consistently even properties — including the joint. What’s more, we offer inflatable profiles with a compressed air valve.

Stamped parts
For greater speed and flexibility, we offer our own stamped Flat Gaskets. There is a huge range of materials to choose from, including metals, elastomers, or plastics.

Xpress® manufacturing
If you need an article urgently, it can be produced quickly and efficiently from the warehoused preforms. If your seal requirements increase, it is easy to switch to series production. Plus, prototype manufacturing or small batch production is economic with Freudenberg Xpress®.

Availability from stock
Whether its standardized DIN articles such as Clamp Seals, O-Rings, or Hygienic Usit® Rings — we deliver your order off the shelf. If a standard article is not in stock, we make sure that it is produced as quickly as possible using existing tools.

For larger quantities or regularly recurring orders, it makes sense to set up a framework contract. Then your parts will always be available when you need them.

Our quality assurance guarantees proper storage, ensuring excellent durability. The only things in short supply with us is complaints.

Direct manufacturing
If a tool is already available, it is used to produce your seals without delay. Depending on the agreement, these tools are customer-protected, which means they are used exclusively for you.

On request
We manufacture articles for which no tool exists yet on request. To begin with, we develop and manufacture a tool. Depending on the product, various manufacturing methods are then employed.
Customized services for the Process Industry

**YOUR INQUIRY**
by phone, e-mail, EASY or fax

**CONSULTING**
and use of the information resources

**STANDARD**
Standardized articles
(e.g. Hygienic Usit®, O-Rings, Clamp Seals)
Articles with existing tool
Articles without existing tool
Profiles, stamped parts, etc.

**CUSTOMER-SPECIFIC SOLUTIONS**
Existing preform
Profiles, stamped parts, etc.

**NEW DEVELOPMENTS**
Expertise in cooperation with associations (EHEDG, VDMA, ISPE, etc.)
Use of benchmarks, studies and resistance database
Freudenberg research services (FEM, damage analysis, etc.)
Testing in the Freudenberg test plant

**OFFER**
WAREHOUSED ARTICLES
DIRECT MANUFACTURING (e.g. compression / injection molding) for articles with existing tool
TOOL MANUFACTURING and subsequent manufacturing for articles without existing tool or new development
EXTRUSION for profiles
STAMPING from semi-finished goods
XPRESS MANUFACTURING for urgent requirements, small batches or prototyping

**ORDER**
via EASY, EDI, e-mail or fax

**CUSTOMER-SPECIFIC SERVICES**
Cleaning service
Surface treatment (RFN)
Color marking
Coating
Individual packaging
Kitting
Customer-specific packing bags
Customized supply chain strategy

**DELIVERY**
Worldwide delivery from local or central warehousing
CUSTOMER-SPECIFIC SERVICES

As the world’s leading seal specialist, we see ourselves not just as your technological partner, but also as your service provider.
In addition to material and product-related services, we offer numerous logistics services for fast availability as well as optimized process, inventory, and storage costs.

Cleaning service, coating, and surface treatment
Cleanliness and hygiene are our top priorities. We offer a cleaning service for demanding hygienic applications, removing the smallest particles to leave no residue.

Plus, we coat seals. One example of this is PTFE coating. This increases the resistance and lifetime of the seal and minimizes wear.

An alternative to this is the Reduced Friction Nanotechnology procedure from Freudenberg, known as RFN. Material surfaces are treated to render them resistant to abrasion and media at nano level. This leaves the material properties unchanged and all compliance is retained.

Color and laser marking
If you purchase similar seals in different materials but the same color, color marking can help to avoid confusion. The markings are applied in accordance with your own individual color system.

Our Safe® product marking technology uses unforgeable laser marking to ensure traceability, protect against product piracy, and prevent confusion. The patented laser marking is FDA-compliant and contains individual specifications such as the article number or material.

Individual packaging, kit packaging, and customer-specific bags
When it comes to packaging, we take your wishes into consideration. The seals can be packaged individually, in specified units, or as sealing sets. If necessary, special packaging is used.

What’s more, we offer you the option of designing bags individually. For example, we can print the bags with your logo, article numbers, and batch numbers. So the packaging not only protects against soiling, but also helps to trace components all the way back to the seal. We will also pack your seals in your own bags if you send them to us.

Customized supply chain strategy
High degree of flexibility and greater efficiency – benefit from the advantages of our customer-specific supply chain agreements. They allow us to integrate your own forecasts into our production planning in order to support you as well as we can with strong supplier reliability.
Well informed in the blink of an eye

We make the world of seals as simple as possible for you. For example, use the Sealing Solutions Manual for the Process Industry, product brochures, or material datasheets. On our website you will find everything you need to get initial information, make an inquiry, or place an order.

You can find the right standard seal for your application in our e-Catalog in no time at all. What’s more, the EASY online ordering platform makes the search and ordering process just that easy! Check prices and availability in real time and benefit from profile images that clearly show how the seals are used.

Use the 2D and 3D CAD geometries and design sketches of tens of thousands of seals in the CAD Service. The O-Ring configurator uses the application conditions and graphical visualizations to help you find the right product or assists you in setting out your own design. Determine the most suitable mix of materials for your application in the integrated material assistant. The resistance tools also give you a quick and clear overview of suitable materials for selected media, such as cleaners.