



CONFIDENCE UNITES

Gaskets, Packings, Compensators,
Service & Support



ESTABLISHED EXPERTISE – INNOVATIVE KNOW-HOW

KLINGER Kempchen GmbH develops, produces and distributes gaskets, packings and compensators. As a market leader and part of the KLINGER Group, we don't just set standards in research and development; we also make an important contribution to environmentally conscious technology. We have been supporting our customers with expertise, commitment and countless innovations since 1889.



COMPREHENSIVE SERVICE

Alongside our globally established products, we also offer comprehensive services and portfolio support, including our free online calculation service, certified installation training and our comprehensive shut-down service with customers on site.



WORLDWIDE SUPPORT

We have been a member of the group of independent KLINGER companies since January 2004. KLINGER is a reliable partner for global solutions related to gasket and valve technology. The KLINGER group employs more than 2400 specialists and runs 60 manufacturing, distribution and service subsidiaries on all five continents.



EXPERIENCE MAKES THE MARKET LEADER

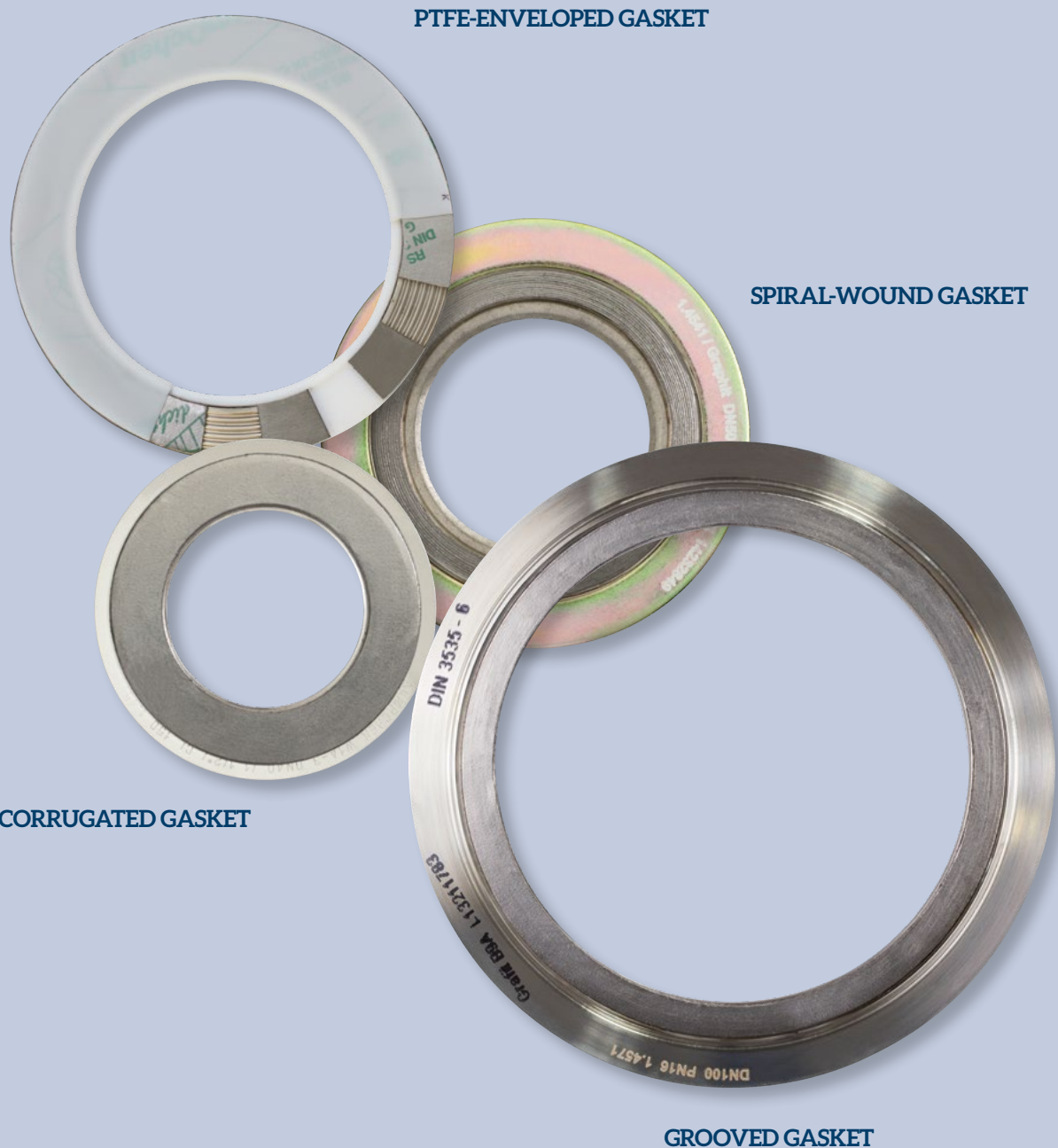
With 125 years' experience in the manufacture of various gaskets, packings and compensators, we are the market leader in this sector. Our know-how covers all our customers' needs and requirements in the chemical, refinery and power plant sectors.

SOFT-MATERIAL GASKETS

Soft-material gaskets are universal sealing elements with a wide range of applications across all industrial sectors. They can be used in temperatures ranging from -200°C up to $+550^{\circ}\text{C}$. The material is selected to suit the medium, medium concentration, temperature, pressure and type of flange. We produce flat gaskets from all standard soft materials.

METAL/SOFT-MATERIAL GASKETS

These gaskets have proved successful at handling the most difficult sealing tasks across all industrial sectors. They are particularly valuable at high temperatures and pressures, requiring high screw force and low leak rates. The geometry of the metal carrier is always specifically matched to the soft material to ensure the flange works perfectly. Produced in a wide range of shapes – including rings, ovals, or frames, with or without dividers, holes and retaining plates – they are used in diverse applications.



METAL GASKETS

Solid metal flat gaskets are used in areas where, due to the medium, temperature, pressure and/or permitted leakage rate, soft-material or metal/soft-material gaskets are not particularly suitable. They work well in a large temperature range from -200°C up to temperatures of over 600°C. They are also used at pressures ranging from relatively low to extremely high and we produce the gaskets to meet your specific requirements.



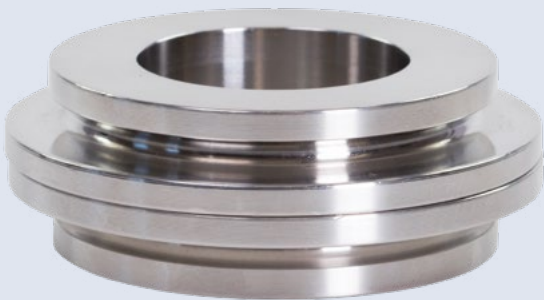
RING JOINT GASKET



LENS GASKET



WELD RING GASKET



H-GASKET



SPECIAL GASKETS

Whether a plant is old or new, the safety and reliability demands are constantly increasing. This is particularly true when it comes to bolted flange connections on apparatuses, valves and pipelines. We have developed individual constructions and components for these. As well as meeting specific requirements and offering customised solutions to one-off problems, these can also be used for visual or software-aided analysis.



POLYTETRAFLUOROETHYLENE (PTFE)

PTFE is an excellent construction material for the chemicals industry. Its temperature resistance ranges from $-190\text{ }^{\circ}\text{C}$ to $+250\text{ }^{\circ}\text{C}$ and it can even withstand temperatures of $+300\text{ }^{\circ}\text{C}$ for short periods. A low friction coefficient makes it an ideal sliding and lubrication material. Its particularly high insulation and puncture resistance also makes it suitable for insulation purposes. PTFE is non-flammable, does not absorb water and has no harmful side-effects. It is one of the most weather-resistant group of plastics.



PACKINGS

Stuffing box packings are used wherever machine elements need to be tightly sealed when emerging from a pressurised space. Stuffing box packing generally consists of a transversely deformable material that rests on the stuffing box, which is supported through axial pretension and adheres tightly to the shaft or spindle.

In selecting the right packing, the essential characteristic is its stability in the context of the medium to be sealed under prevailing operating conditions.

For all packing – whether for valves, pumps or static seals – one thing is essential: a triaxial stress state needs to be maintained.



COMPENSATORS



FABRIC COMPENSATORS

Kempchen's soft-material compensators have become well established across a range of applications. Without these versatile assembly parts, modern industrial plants would not exist: the costs would be extortionately high. The main advantage of soft-material compensators is their multi-dimensional absorption of movement despite their low reaction force. Kempchen has developed a patented method for sintering PTFE sheets onto all types of fabrics, significantly improving the properties of soft-material compensators.



RUBBER COMPENSATORS

We produce rubber compensators with high pressure-resistant textile fabric interlinings for all industrial sectors. These absorb expansion and reduce the transmission of noise and vibration, even under tension.



METAL COMPENSATORS

Our metal compensators are ideal for handling high pressure and temperature ranges, available in special steel and all weldable metals.

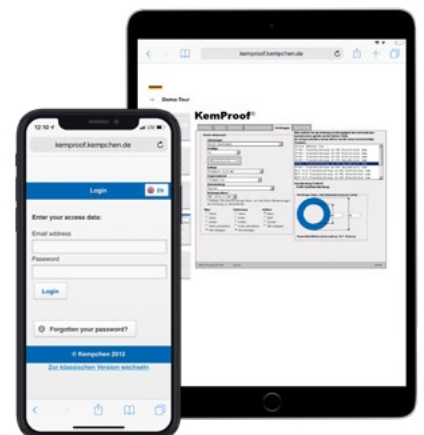
FROM FREE ONLINE PROGRAM SUPPORT TO CUSTOMISED ANALYSIS

We provide our customers with comprehensive and customised support for calculating gasket connections: our free online KemProof program calculates screw tightening torque and we help with the complex analysis of specific project specifications.



KEMPROOF® PRO

The free online program for calculating screw tightening torque. We offer customers a free calculation service for screw tightening torque in 5 easy steps on our website at kemproof.klinger-kempchen.de. You can also access the free online calculator from your smartphone so you can use our service anywhere, even at the assembly site.





INSTALLATION TRAINING

The standards for bolted flanges are becoming increasingly stringent. Certification will be required to assemble sealing connections in flanges in the future.

The DIN EN 1591 standard was introduced to regulate gasket calculation and technician training in Europe, so you can select technicians based on their individual installation expertise. KLINGER Kempchen offers basic DIN EN 1591-4 training along with additional training modules at its own training centres in Augsburg, Hamburg, Leuna und Oberhausen, ensuring the technicians in your companies receive standards-compliant training.



KLINGER ENGINEERING

ENGINEERING SERVICES FOR SEALED CONNECTIONS

The KLINGER Engineering team is made up of engineers, technicians and technical experts from the most varied of fields.



Our top priority is guaranteeing system safety and reliability. Regardless of whether you are transporting liquids or gases. Our engineering services guarantee that your operation will be reliable and safe, without leakages and consequential damage, or damage to materials. Our innovative and highly modern methods of designing and calculating gasket joints are based on our specialist knowledge and experience. By developing and applying a vast number of software solutions tailored to the specific requirements of the respective industries, we can safeguard and guarantee the reliable function of gasket joints.



FLANGE MANAGEMENT

Quality assurance for fitting flanges during turnarounds, stand-still times and audits.

Alongside the continuous supply of sealing components and mobile production on site, our flange installation quality assurance support completes the full service provision. Our DIN EN 1591-4 certified technicians supervise the dismantling and assembly of flange connections on site to meet your schedules.

KEMRECORD 1.0

Flange management QA

Full quality assurance documentation with our new app, KemRecord 1.0





SHUT DOWN SERVICE

Our service and production support centre – on your site

The shut-down service offered by KLINGER Kempchen provides our full range of services on your company premises – when and for as long as you want them. In our mobile service and production support centre we provide a customised consignment warehouse on your site with all standard pipeline gaskets (grooved and flat gaskets, packings etc.) as well as all the required machinery.

We can then produce and check flat gaskets in all materials and sizes. You can access our goods and warehousing system through an online connection to the company, which enables fast customisation of products such as complicated metal components.

Our highly specialised team has turnaround expertise ensuring fast, smooth processing and is always there to provide advice on site. Simplifying the ordering process also relieves the pressure on your logistics staff, reducing your administration and process costs substantially.



2023 Edition | Printing and typesetting errors excepted

KLINGER Kempchen GmbH
Im Waldteich 21 » 46147 Oberhausen
T: +49 208 8482-0 » F: +49 208 8482-285
info@klinger-kempchen.de

www.klinger-kempchen.de