

PRODUCTS & SERVICES

International manufacturer
& supplier of specialised
sealing products & services.



FLEXITALLIC

THE FLEXITALLIC GROUP IS THE INTERNATIONAL MARKET LEADER IN THE MANUFACTURE AND SUPPLY OF HIGH QUALITY, HIGH VALUE INDUSTRIAL STATIC SEALING PRODUCTS.

ABOUT US

As the developer of the spiral wound gasket in 1912, we have built on this legacy of innovation with revolutionary products including Thermiculite®, Sigma®, Change™ Gasket and more recently Corriculite®, our tightest sealing material, which is set to transform the global sealing industry.

We have a global network of Allied Distributors across 30 countries. This ensures local demand is met quickly, providing a combination of the highest product quality and outstanding customer service.

Our extensive and varied product offering includes spiral wound gaskets, RTJ gaskets, Flexpro™ Kammpfiles, sheet materials, dynamic and static packings, pipe support and custom rubber products. Drawing upon the group's rich history and present day values of leadership, quality, service and technology, we are at the forefront of developing sealing solutions for industries around the world.

In addition to a wide range of products, we also deliver world-class technical support and Joint Integrity training.

OUR MISSION

MAKING THE WORLD SAFER AND CLEANER THROUGH ENGINEERED SEALING SOLUTIONS.





Flexitallic Global Locations

BASED ON SALES AND GEOGRAPHIC REACH, THE FLEXITALLIC GROUP HAS BECOME *THE* GLOBAL SUPPLIER OF INDUSTRIAL GASKETS.

INNOVATIVE PRODUCT RANGE

We have a rich history of innovation, which has seen us lead the industry with many new products.

Over the years, our products have gained a reputation for quality, reliability and technology that is second to none.

CUSTOMISED ENGINEERING SOLUTIONS

Our Application Engineering, Production Engineering and R&D teams work closely together to design, develop and manufacture bespoke sealing solutions. We have been responsible for a number of truly revolutionary products, including Thermiculite®, Sigma® and Corriculite®, which ensures we are able to continually meet the ever more stringent requirements of our customers.

FLEXITALLIC® SAFE

Over the last century, our aggressive R&D efforts have helped customers become Flexitallic® Safe. From the first Spiral Wound Gasket in 1912 to the ever evolving applications for Thermiculite®, our goal is to develop materials that push the parameters of heat, pressure and chemical resistance.

OUR COMMITMENT TO QUALITY

We place great emphasis on maintaining international quality standards, and are approved to ISO 9001: 2015, ISO 14001:2015, ISO 45001: 2018, API 6A and API 17D, to ensure we meet the highest possible standards for all our products and services. We also invest heavily in test and quality assurance equipment to maintain our reputation for the highest quality products.

Our materials are subjected to a wide range of tests as specified by statutory regulations and customer requirements. These approvals enable our customers to make informed choices as to the suitability of a product for each and every application.

INSIDE INDUSTRY

We pride ourselves on not simply supplying products, but by supporting customers with a detailed knowledge of their industry and applications, so that products and services are tailored to their specific needs. This unique approach means that we focus on providing more than just a product, but also a complete solution that adds genuine value to our clients.

GLOBAL DISTRIBUTION... LOCAL SUPPORT

Our products are distributed through a global network of Allied Distributors. These carefully selected distribution partners are strategically located within their territory to deliver the best possible service and products to our customers. This approach means our products and know-how are available to the global industries we service.

Allied Distributor



Licensee Manufacturer



CHANGE™ GASKET

**ENGINEERED LIKE NOTHING ELSE.
TO PERFORM LIKE NOTHING ELSE.
WHAT A CHANGE™.**

When we invented the spiral wound gasket in 1912 there was nothing like it. 100 years of innovation later, we introduce the Change™ gasket. Again, there's nothing like it.

Incredibly robust and resilient, the metal-wound Change™ heat exchanger gasket is designed to deliver the most dynamic seal ever.

The Change™ gasket is manufactured with proprietary equipment, using a 5-times thicker metal spiral and a unique laser welding process that penetrates completely through the winding, so it requires no inner or outer ring and is easy to handle and install as a double-jacketed gasket. Best of all, it's proven to perform without fail at least 60% longer than any other heat exchanger gasket - spiral wound, double jacketed, corrugated or kammprofile.

BENEFITS

- Excellent compression and recovery
- High performance in thermal cycle applications
- Robust and versatile design
- Fire-safe (API 6FB)

Gasket Installation Services are available via our team of Integrity Engineers who will assure Leak Free start up.

THE CHANGE™ GASKET. UNIQUELY MANUFACTURED.

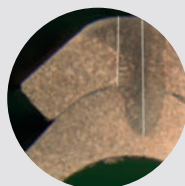
SHAPE

- Unique wire profile
- 304, 316L & other materials
- Develops a uniquely solid gasket



LASER WELDED

- Higher unit adhesion
- Pin point accuracy
- Solid construction



change™



THERMICULITE®

ANOTHER FIRST FOR FLEXITALLIC. THERMICULITE® - THE COMPLETE SEALING SOLUTION.

Thermiculite® is specified by name where critical sealing matters. Applications include Petro chemicals, Fertilisers, OEM and Oil & Gas applications, where process conditions are extreme.

Our experienced engineers use the versatility of Thermiculite® to create bespoke sealing configurations in equipment and piping systems to increase operational up-time for our customers. This truly remarkable product has proven itself as an effective long-term sealing solution in over 600 of the most demanding industrial sealing applications.

Thermiculite® is a patented product with amazing versatility. Not only can it withstand high temperatures and corrosive environments, due to our unique formulation, we are able to offer Thermiculite® as a stand alone sheet material, as a filler for SWG's, as a facing for Kammprofiles and also in many of our other product lines.

We have also developed a range of valve stem packings, using Thermiculite® technology, for use in the most arduous service.

PROVEN TRACK RECORD IN THE FOLLOWING INDUSTRIES

- Power Generation
- Fertiliser (Agro-Chemicals)
- Oil Exploration
- Industrial Chemicals
- Automotive
- Aerospace
- Oil Refining
- Emerging Technologies (Solid Oxide Fuel Cell)

PRODUCTS

- 700-800 Series - sheet grade
- 866 - specialist grade (SOFC)
- 896 - aerospace
- Kammprofiles
- SWG
- Static and Dynamic Packings
- I-Flex Isolation Kits
- FRG

BENEFITS

- Engineered and Manufactured in the UK
- Fire-safe (API 6FB)
- Wide temperature range - cryogenic to 1000°C
- TA Luft approved
- Wide availability of styles of gaskets
- Free from oxidation
- Excellent chemical compatibility
- Electrical and thermal insulation
- Universal
- Replaces graphite, PTFE, non-asbestos materials

Thermiculite®



SPIRAL WOUND GASKETS

DRIVEN BY THE INDUSTRY'S NEED FOR SAFE, EFFECTIVE SEALING SOLUTIONS FOR INCREASINGLY DEMANDING APPLICATIONS, FLEXITALLIC INVENTED THE SPIRAL WOUND GASKET IN 1912.

Not satisfied with inventing the iconic spiral wound gasket, we have continued to innovate by developing world leading materials.

Thermiculite® is often used as a filler material to provide resistance to temperature, chemical attack and corrosion.

Through precision engineering, the spiral wound gasket, available in unlimited configurations of high quality metals and materials, is individually tailored to meet the demands of each application.

Globally acknowledged to provide a superior seal in the most exacting of conditions, its flexibility and recovery gives it a unique ability to cope with the effects of high pressure, wide temperature fluctuations and bolt relaxation.

Spiral wound gaskets are found in a host of applications across the world, from small diameter turbine gaskets, to HP heat exchangers.

LEAK-FREE START UP

"By using custom designed heat exchanger spiral wound gaskets, we achieved a leak free start up - a first in 15 years."

Chief Engineer
Leading UK Refinery

PRODUCT RANGE

- Standard Gaskets - Available to a range of international standards including ASME / EN
- Low stress sealing element
- Heat exchangers
- Carrier rings
- OEM
- Application specific designs

BENEFITS

- Engineered and Manufactured in the UK
- 24/7 manufacturing capability for specialist requirements
- Significant stock holding of standard gaskets
- Flexibility to manufacture and supply gaskets with a combination of inner and / or outer guide rings
- Wide range of machinery that enables us to manufacture any size gasket
- UK centre of excellence supported by global distribution manufacturing
- Custom designs available
- World-class testing and development centre
- Support from our team of Application Engineers



FLEXPRO™ KAMMPROFILES

FLEXPRO™ - THE VERSATILE GASKET WITH THREE KEY FEATURES: COMPRESSIBILITY, LOW STRESS, CONVENIENCE.

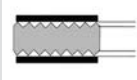
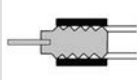

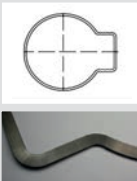
The FLEXPRO™ Kammprofile gasket has three key features: the compressibility of a sheet gasket; the sealability of a spiral wound gasket and the ease of handling a solid metal gasket.

FLEXPRO™ Kammprofile gaskets are the ideal product choice for standard pipeline and heat exchanger applications. They provide a high level of sealing integrity but with the ability to seal at seating stresses normally associated with sheet materials. Kammprofiles are able to cope with high temperatures and pressures making them suitable for heat exchanger service. The product can also be used time and again when correctly refurbished.

BENEFITS

- Engineered and Manufactured in the UK
- Wide stock of raw materials
- Adherence to the tightest global specifications
- Inspection equipment allowing exact measurement of machined profiles
- TADU machine for very large diameter gaskets
- Thermiculite® technology for high temperature applications
- Custom shapes
- Wide range of machinery
- World class testing and development centre
- Support from our team of Application Engineers

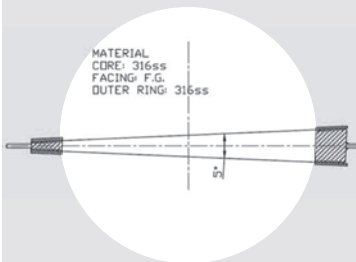
PRODUCT RANGE

| | |
|---|---|
|  | STYLE PN – serrated profile used in confined locations eg heat exchanges |
|  | STYLE ZA – serrated profile with loose outer ring |
|  | STYLE ZG – serrated profile with integral outer ring |
|  | CUSTOM SHAPES – We have developed specialist manufacturing techniques, enabling us to produce FLEXPRO™ Kammprofile gaskets in a wide range of non-circular shapes and sizes. |

These are particularly useful for applications that need the narrow sealing element and low stress seating of a kammprofile, but traditionally have had to use lower grade products such as jacketed or metal reinforced gaskets. Applications include oval, obround and square manway and boiler door joints and large rectangle gaskets for fin-fan header boxes.

Contact our Application Engineering Team to discuss specific requirements.

CASE STUDY: WEDGE KAMMPROFILE



We were contacted late one Friday with the problem, by Sunday the product had arrived on site in Nigeria.

The issue was the misalignment of the mating component which meant a standard gasket could not be used, a bespoke Kammprofile was the perfect fit.

This highlights our capability to turn a customer problem into an innovative solution.

“This novel solution certainly solved a problem that looked like it might prevent the successful start up after shutdown.”

Site Shutdown Co-ordination Engineer



SIGMA[®]

FOR APPLICATIONS WHERE CHEMICAL RESISTANCE IS PARAMOUNT, SIGMA[®] IS THE ONLY OPTION.

Utilising a unique manufacturing process exclusive to Flexitallic, SIGMA[®] represents the latest generation of biaxially orientated PTFE materials.

All components in the SIGMA[®] range are FDA compliant. The material's clean nature makes it ideal for use where product contamination is of concern, such as food, pharmaceuticals and electronics.

The chemical resistance and dimensional stability of the material ensures total sealing reliability and minimises fugitive emissions.

To further enhance our product portfolio, we can offer expanded PTFE sheet sealing material (ePTFE) and Gasket Tape.



For more information on the above products please contact our Applications Engineering Team.

PRODUCTS

500 511 533 588 600

BENEFITS

- Engineered and Manufactured in the UK
- Cryogenic to 260 °C
- Outstanding chemical resistance across pH range
- Suitable for low bolt load applications
- Materials available in a range of different sheet sizes and thicknesses
- FDA compliant
- Available for oxygen service
- Easy to handle and cut



SHEET JOINTING

THE FLEXITALLIC RANGE OF COMPRESSED FIBRE JOINTING IS DESIGNED FOR A WIDE RANGE OF INDUSTRIAL AND ORIGINAL EQUIPMENT APPLICATIONS, WHERE SEALING PERFORMANCE AND SPECIFICATION IS ESSENTIAL.

A comprehensive range of grades are available covering a wide spectrum of applications.

In addition, the materials can be supplied in private brand and colour formats to ensure your company or customer is accorded recognition.

The jointing can be supplied as sheet or as cut gaskets, either to standard or non-standard dimensions.

PRODUCTS

Flexitallic SF2401, SF2800, SF3300, SF3500, SF4300, SF5000/1, SF2500.

Novus 10

Novus 20

Novus 30

Novus 34

Novus 45

Novus 49 (Graffec)

Novus 26, 28, 29, 48 (Acid), HDS1



BENEFITS

- Engineered and Manufactured in the UK
- Wide range of service applications
- Easy to handle and cut
- Good bolt torque retention
- Reliable for general service chemicals

GRAPHITE

Exfoliated graphite products are designed for demanding, general industry applications typical of the petrochemical and refining industries.

Manufactured from high purity exfoliated graphite, our products are available with a variety of metallic inserts and combinations of thickness.

Ultra high purity graphite is available for the nuclear industry, and high pressure grades are also available.

PRODUCTS

Novus TI (RGS3)

Novus FI (RGS4)

BENEFITS

- Wide chemical resistance
- Good compressibility
- Resistant to thermal shock
- Excellent stress retention



FLANGE RESCUE GASKETS

CORROSION MANAGEMENT GASKETS

**WINNER OF THE 2013 NACE CORROSION
INNOVATION OF THE YEAR AWARD.**



The FRG range of high performance sealing solutions is the latest innovation for challenging, corrosive environments. Developed in direct response to the oil and gas industry's requirement for effective closure on damaged flange faces, with additional corrosion inhibiting properties, it is now helping to mitigate corrosion problems throughout industry.

The fight against corrosion is a constant battle. Internal corrosion and damaged flange faces are responsible for a significant proportion of hydrocarbon releases and can have a major impact on operating costs, particularly on ageing assets.

The FRG can be used to seal on damaged flange faces where previously only very costly or time consuming options existed.

By using the FRG range it helps you to fight the corrosion battle head on.

BENEFITS

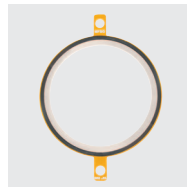
- Engineered and Manufactured in the UK
- Significant cost savings
- Speeds up maintenance downtime
- Fire-safe to API 6FB
- Topsides/subsea variants
- Bespoke designs available

THE FRG PRODUCT RANGE:



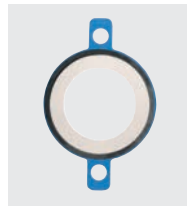
FLANGE RESCUE GASKET - ORIGINAL

- Restricted Sigma® PTFE bonded to high integrity metal core
- Leak-free seal and blow out resistance
- Bright & easily identifiable for inspection
- Corrosion resistant coating.



HF ALKYLATION

- Low stress sealing Sigma® - a tighter seal
- Fire-safe graphite faced serrated metal core
- Designed for ease of identification with problematic connections on HF Acid Plants.



CRYOGENIC

- Aluminium core as standard
- Core material can be adapted to match the flange materials
- PTFE ring performs in temperatures from cryogenic to 260°C.



FIRE SAFE

- Thermiculite® high temperature insulating corrosion resistant material
- Certified to API 6FB for fire-safe applications.



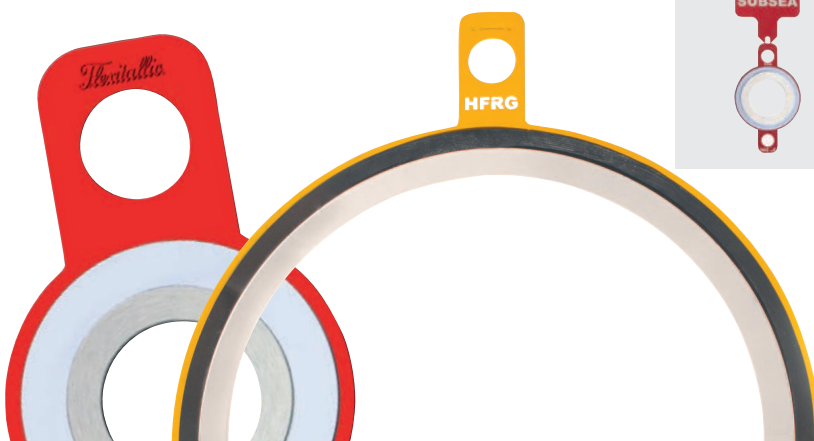
HIGH PRESSURE

- Stops turbulent media flow to prevent erosion, corrosion and flange degradation
- Available in Style R Oval, R Octag, RX and SRX
- Ideal for topside or sub-sea applications.



FRG SUBSEA

- Easy sub-sea installation with integrated removable handle
- Use to connect RTJ & RF flanges.



CORRICULITE®

CORROSION MANAGEMENT GASKETS

PREVENTING FLANGE FACE CORROSION IN SEAWATER AND HYDROCARBON SERVICES.

Responding to customer demands for an improved material with strong anti-corrosion characteristics Flexitallic has created Corriculite® - a filler material for spiral wound gaskets specifically designed for use in corrosion-sensitive environments, such as seawater and hydrocarbon services, across a number of industries, including oil and gas, power and marine.

This revolutionary, non-conductive filler material provides sealing performance and corrosion resistance unlike any other gasket material on the market.

Comparative tests show **Corriculite®** delivers corrosion protection and sealing properties that far exceed other materials currently available.

Conventional graphite gaskets for instance, promote the initiation and propagation of corrosion of flanges due to graphite's electrical conductivity and position in the galvanic series, leading to premature failure and leakage.

BENEFITS

- Engineered and Manufactured in the UK
- Fire Safe to API 6FB
- Reduced maintenance costs
- Reduces costly shutdowns
- Maintains seal integrity
- Extends equipment life
- Eliminates safety & environmental risks

CORRICULITE®
Protection. Sealed in.

Download the whitepaper on
*Preventing Flange Face Corrosion
in seawater and hydrocarbon services,*
available at www.corriculite.com



RING TYPE JOINTS

THE METALLIC RING TYPE JOINT IS USED IN THE PETROLEUM INDUSTRY, WHERE HIGH PRESSURE APPLICATIONS NECESSITATE THE NEED FOR A HIGH INTEGRITY SEAL.

Every RTJ that leaves our manufacturing facility is identified with key product information to give you the confidence that our products meet stringent application requirements.

In addition, every material that enters our factory is checked using the latest Positive Material Identification (PMI) technology, which combined with our material database, ensures we have full product traceability.

RTJ's were initially developed for use in the upstream petroleum industry and are also commonly used on valves and pipework assemblies, and high integrity pressure vessels.

PRODUCT RANGE

- Style R - oval/octagonal to API/ASME
- Style RX
- Style BX
- Subsea - We are able to supply subsea variants in accordance with API 17D
- OEM design

BENEFITS

- Engineered and Manufactured in the UK
- API 6A and 17D approvals
- Specialist coatings available including xylan, silver and zinc
- Wide stock of raw materials
- Wide range of CNC machines
- The latest inspection technology - CNC/CMM
- Custom designs available
- World-class testing and development centre
- Support from our team of Application Engineers

PRODUCT FOCUS: RTJ-KAMM

The RTJ-Kamm gasket

combines the high pressure seal of an RTJ with the low stress sealing of a Kamm. The sealing faces are serrated and faced which means this style is ideal for use with damaged flange grooves or in low load applications.



COMPRESSION PACKINGS

Uni-Pac

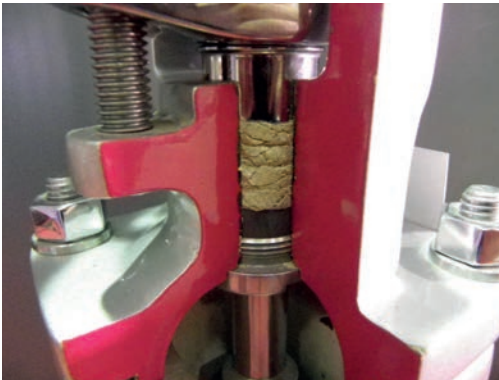
THE CHOICE FOR VALVES AND PUMPS.

Flexitallic offer a full range of compression packings for valve, rotary pump and reciprocating pump applications.

Packings utilise the most advanced production techniques and materials to ensure a high integrity seal in even the most demanding of industrial applications.

Material constructions include PTFE, graphite, carbon fibre, glass and synthetic fibres in a variety of combinations.

For high performance valve applications, we manufacture exfoliated graphite die-formed rings in virtually any size, section or density to suit requirements.



PRODUCT RANGE

- **Compression Packings:**
Uni-Pac 1, Uni-Pac 2, Uni-Pac 3, Uni-Pac 4,
Uni-Pac 5, Uni-Pac 7, Uni-Pac 10,
Uni-Pac 14, Uni-Pac 15
- **Fugitive Emissions Packings:**
308
- **High Temperature Packings:**
Thermiculite® 894, GP1, GP2, GP125
- **High Temperature Stem Sets:**
TR160, Thermiculite® 894
- **Valve Stem Sets:**
Enviroflex™ 500, Enviroflex™ Hot
- **Die-Formed Rings:**
GR160, TR160

For more information on the full product range available please refer to the Compression Packings brochure on our website.



FLANGE ISOLATION PRODUCTS

CORROSION MANAGEMENT GASKETS/ELECTRICAL ISOLATION

FLEXITALLIC ISOLATION SYSTEM, AN INSULATION GASKET TO PROVIDE ELECTRICAL AND THERMAL INSULATION USING SIGMA® AND CORRICULITE® TECHNOLOGY.

We provide a complete product range to limit corrosion in pipeline systems, using modified PTFE material Sigma® and our unique anti-corrosion material Corriculite® - both giving unrivalled performance.

The insulating sets are designed to electrically isolate flanges and bolts in cathodically protected piping systems or whatever dissimilar metals are present.

The specially engineered materials used in the ISOFLEX™ isolation system are also able to extend traditional operating temperature pressures and chemical compatibility, and is aimed at eliminating the concerns and pitfalls of existing market offerings.

BENEFITS

- Exceeds dielectric and sealing capabilities of all current market products
- Available as individual gaskets and full isolation set
- Fire Safe - API 6FB
- Cryogenic to 200°C temperatures
- Can be used on all types of flanges
- Used for both cathodic and galvanic corrosion

PRODUCT RANGE

ISOFLEX™-FS

ISOFLEX™-FS is a fire-safe isolation gasket that is ideal for high pressure and critical service applications.

ISOFLEX™-LT

ISOFLEX™-LT is less susceptible to localized flange damage and seals better than inclined plane style gaskets.

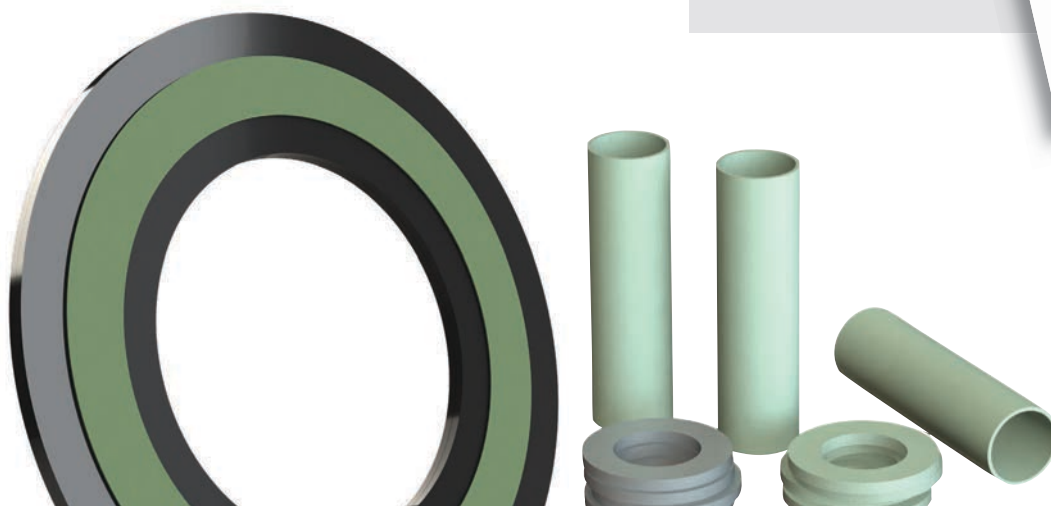
ISOPRO-IP

ISOPRO-IP is a flange isolation gasket ideal for low to medium pressure classes and general service.

IFLEX™-LP

IFLEX™-LP is capable of effecting a seal over a wide range of applied stress making the product suitable for use in an extensive range of standard and non-standard bolted connections.

Download the Flange Isolation Products brochure for more information.



RUBBER AND CORK

RUBBER HAS BEEN USED IN ENGINEERING APPLICATIONS FOR WELL OVER ONE HUNDRED YEARS.

Rubbers are loosely described as materials which show 'elastic' properties. One easily understood definition of a rubber or elastomers is a material which at room temperature can be stretched repeatedly to at least twice its original length and upon immediate release of the stress, will return with force to approximately its original length.

Flexitallic has a vast range of rubbers including many exotic rubbers which can be pre cut in a range of widths and thicknesses and can be cut to any shape or size of your choosing.

PRODUCTS

- Butyl
- Chutex
- EPDM
- EPDM Potable
- Natural Rubber Insertion
- Neoprene
- Nitrile

BENEFITS

- Temperature resistance, capable of withstanding extreme temperatures
- Incredibly durable
- Highly malleable
- Many rubbers are non-toxic
- Ideal for electrical resistance

CORK GASKET SHEETS CONTINUE TO BE RELIED ON FOR MAKING ALL KINDS OF GASKETS, SEALS AND VIBRATION PADS.

By combining the unique properties of natural cork with the sealing characteristics of rubber, rubberised cork offers several advantages that other types of sealing material struggle to match.

Flexitallic have been working with cork gaskets for decades and appreciate how important the subtle differences between grades can be to seal performance. As a result, we've chosen the best performing, most versatile grades which we stock in a wide selection of thicknesses.

PRODUCTS

Rubberised Cork:

- **ACN 60 Plus** - Fuel, Oil, Gas and Transformer Gaskets
- **NP 50 Plus** - Marine, Hydraulic, Electrical and Transformer gasket with high ozone resistance.
- **MR 31 Plus** - Highly compressible automotive and general purpose gasket material with moderate oil resistance.

BENEFITS

- Environmentally friendly
- Great resistance to oil, solvent and fuels
- Low density and elastic
- Low thermal conductivity
- Abrasion resistant



STRAUB PIPE COUPLINGS

THE STRAUB PIPE JOINING SYSTEM OFFERS A QUICK AND SIMPLE MEANS OF MECHANICALLY JOINING PLAIN END PIPES.

The range of STRAUB pipe couplings are proving itself as an increasingly popular alternative to traditional pipe joining, such as butt welding, flanging, grooving, or threading pipe ends.

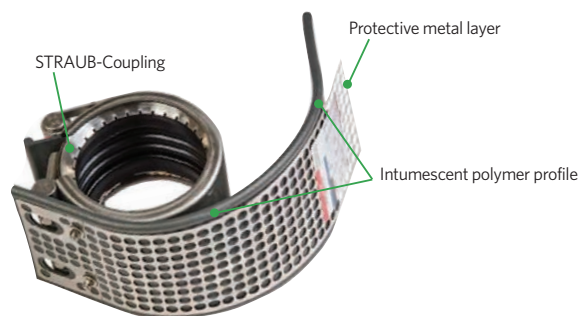
STRAUB pipe couplings are available with or without axial restraint, for metal and plastic pipe, with Class Approvals for ship & offshore use, plus potable water use with NFS and WRAS approvals.

PRODUCTS

- **Pipe Coupling - Metal Grip (Straub):** High-performance coupling suitable for all pipe systems
- **Pipe Coupling - Grip L (Straub):** Light standard coupling series
- **Pipe Coupling - Open-Flex (Straub):** Available in a number of different versions: jointed, one-piece or two-piece
- **Pipe Coupling - Flex (Straub):** Connection and compensator in one
- **Pipe Coupling - Firefence:** Easy, safe, fire-resistant

BENEFITS

- **Universal use** - compatible with almost any traditional jointing system
- **Reliable** - stress-free, flexible pipe joint
- **Durable** - progressive sealing- and anchoring effect
- **Economical** - pre-assembled design ensures simple and rapid installation
- **Easy handling** - detachable and reusable



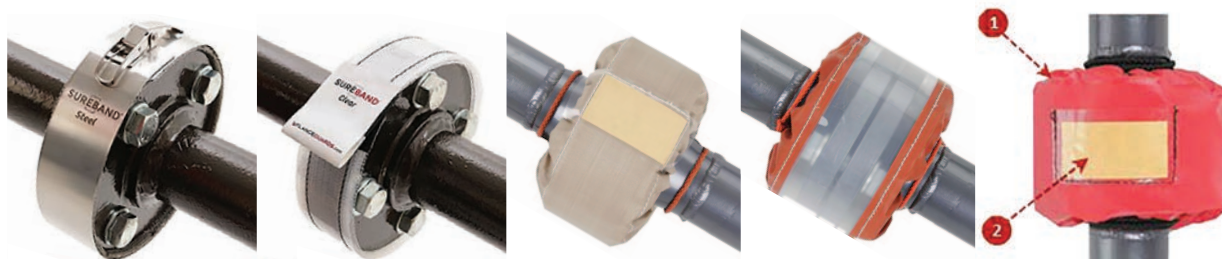
FLANGE GUARD SAFETY SHIELDS AND FINGER SAVER

PIPE SAFETY SHIELDS ALSO KNOWN AS FLANGE GUARDS ARE USED IN A VARIETY OF INDUSTRIES, WHERE THEIR PRIMARY APPLICATION IS THE PREVENTION OF HARMFUL SPRAY-OUTS AND MIST FORMATION FROM FAILING PIPE JOINTS, OF TOXIC, CORROSIVE AND DANGEROUS LIQUIDS SUCH AS ACID, OIL OR STEAM.

Safety or spray shields offer the last line of defence. They are not designed to contain the leak indefinitely, but to prevent the harmful spray outs resulting in fire or explosions causing considerable plant down time, capital expenditure and even loss of life.

Installing our safety shields is both simple and quick, requiring no tools. Flexitallic can assist you to identify Safety Shield solutions for applications such as:

- Acid and Alkali
- Steam
- Oil Mist
- Thermal Oil
- Liquefied Natural Gas (LNG)
- Mono-ethylene glycol (MEG)



PRODUCTS

- **Surebrand Steel:** Highest quality material, outlasts all other shield products
- **Surebrand Clear:** PTFE shield with Pressure Diffusion Technology (PDT)
- **PTFE Shields:** Resistant to ultra-violet radiation
- **PVC Shields:** Leaks easily detected through indicator patch
- **PTFE Clear Shields:** Allows visual inspection of the valve and leaking fluids

BENEFITS

- Prevention of leaks & preventing leaks from causing damage to property or injury to people
- Avoiding the formation of mists
- Indicating where there are leaks

WHEN USING THE FINGERSAVER YOU ARE ABLE TO KEEP YOUR HANDS AWAY FROM ANY POTENTIAL DANGER OF IMPACT.

Every day in many industries, people are sustaining hand and finger injuries that are preventable. Using the correct safety device should be an essential part of everyday life. If you are working in areas where objects could hit you on the head, you would wear a hard hat. If your eyes are at risk from foreign objects or wind blown particles, you would wear safety glasses.

Use of the FingerSaver means you are able to keep your hands away from any potential danger of impact. Flexitallic Australia are authorised distributors for the FingerSaver throughout Australasia.

PRODUCTS

- **FS280mm** - Finger Saver (Compact) Tool 280mm long
- **FS350mm** - Finger Saver Tool 350mm long
- **FS900mm** - Finger Saver Tool 900mm long
- **FSLanyard** - Lanyard 1.3m long to suit Finger Saver Tool



TECHNICAL & INTEGRITY SERVICES

“FLEXITALLIC ENGINEERS PROVIDE VALUE FOR MONEY, ENGINEERED SOLUTIONS TO CUSTOMERS ON A GLOBAL BASIS, GIVING ADVICE ON GASKET SELECTION, GASKET USAGE AND TROUBLE SHOOTING ON THOSE DIFFICULT APPLICATIONS.

WITH OVER 10,000 DOCUMENTED SOLUTIONS ACCESSIBLE ON OUR GLOBAL ENGINEERING DATABASE THE LIST OF SATISFIED CUSTOMERS CONTINUES TO GROW.”

Dene Halkyard

Technical Director - Flexitallic UK Ltd

BOLTED JOINT INTEGRITY

Flexitallic Application Engineers understand that the use of high quality gaskets, although a prerequisite for joint integrity, are not a guarantee of sealing success.

As a consequence, Flexitallic has a global team of Application Engineers that specialise in bolted joint integrity across a wide range of industries who offer a range of Integrity Services that are designed to complement and enhance Flexitallic's product offering:

- Engineering Drawings
- Bolt Torque and Load Calculations
- Joint Integrity Calculations BS EN1591
- End User Support for Problematic Sealing Applications
- Design Reviews for Bespoke Connections & Critical Equipment
- Piping and Gasket Specifications
- Gasket Selection and Installation
- Pressure Vessel Design Review (Flange)
- Technical Consultation
- Joint Integrity Management Software (JIMS)
- Joint/Flange Integrity Training

For more details please contact our Application Engineering Team.

LIVE CHAT



Do you need help with an application?

Our Application Engineering team have many years of experience and are on hand via our live chat link to answer any questions you have relating to troublesome applications, training our shutdown support.

RESEARCH AND DEVELOPMENT

Flexitallic prides itself on being the leading innovator of new technology within the gasket industry.

We continue to make significant investments in technology in order to support future development of materials and to set new industry benchmarks for the evaluation of existing products.

The UK and US laboratories boast every testing facility expected of a genuine manufacturer of sealing materials. These facilities allow gasket performance analysis under EN 13555 and DIN 28090 to ensure that materials perform as required when deployed into active service.

The facility includes testing equipment described below and some specific R&D test tools such as chlorine ion measurement and some electrical potential measurement.

AMTEC Gasket Tester

AMTEC High Temperature Testing (900°C)

Methane AMTEC Tester

Gasket Testing

Shell Thermal Cycle Testing

Solid Oxide Fuel Cell - Leakage Testing

Stereo Microscope

Durability Testing

ThermoGravimetric Analyser (TGA)

Differential Scanning Calorimeter (DSC)

Infra-Red Spectrometer (FTIR)

Particle Size Analyser

Surface Area Analyser



THE ACADEMY OF JOINT INTEGRITY

THE ACADEMY OF JOINT INTEGRITY CAN PROVIDE A RANGE OF COMAH COMPLIANT CERTIFIED TRAINING COURSES, AND ON-SITE INTEGRITY AUDITS.

TRAINING COURSES

The Academy of Joint Integrity offers Accredited and Awareness Training Courses to all personnel who are involved in the assembly and tightening of flanged bolted connections. Mentoring and assessment programmes also complement the training provision. All our training courses are given by industry professionals who themselves have current and relevant industry-based experience.

The Academy has contributed to the latest Energy Institute Guidelines for the Management of Integrity of Bolted Joints in Pressurised Systems, and is also an active member of an ASME sub-committee, developing new initiatives for Pressure Boundary Bolted Flange Joint Assembly.

Courses are delivered by industry experts with extensive site experience and utilise a combination of practical and theoretical training and assessment, and are aligned to International Standards:

ASME PCC 1 Appendix A

Training and Qualification of Bolted Joint Assembly Personnel.

EN1591-4:2013

Qualification of Personnel Competency in the Assembly of Bolted Flanged Joints.

EN 1591-1:2013

Flanges and their joints. Design rules for gasketed circular flange connections. Calculation – Awareness.

ECITB Route to Competency and Mechanical Joint Integrity

Critical Bolting Units – MJ110.

IChemE Approved Courses

Site-specific approved courses in accordance with International Standards.



LOCATION

The Academy has dedicated facilities in Aberdeen, Teesside, Ellesmere Port, West Yorkshire, Humberside and South Wales. Training is also offered within our overseas operations.

COURSES

Training can be delivered in a variety of ways:

- At the Academy, utilising our purpose built training centres
- At the clients premises, utilising mobile training rigs and equipment
- Via 'Blended Training' using a web based learning portal with a unique E-Learning programme.

BENEFITS

- Legislation compliance
- Motivated workforce with best practice skills
- Reduced costs with increased asset integrity
- Access to the latest technical standards and procedures
- Sealing and integrity modules providing greater knowledge
- Alliance and structured support from a world class technical / training team

For further information on the range of courses available visit www.academyofjointintegrity.com or call +44 (0)1274 860795

“Fundamental to successful joint integrity is the training of the personnel involved in the process of inspection, assembly and tightening of bolted connections.

The Academy provides a range of cost effective tailored training courses to suit the needs of the client or contractor.”

Gary Milne

Technical Training Manager



The Academy of Joint Integrity™



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About The Flexitallic Group

The Flexitallic Group is a global leader in specialised sealing solutions and products serving the oil and gas, power generation, chemical and petrochemical industries in emerging and developed markets. Focused on the upstream, downstream and power generation sectors, it has operations in France, the United States, Canada, Mexico, the United Kingdom, Germany, Italy, Belgium, the United Arab Emirates, Thailand, Australia and China plus a network of worldwide licensing partners and distributors.

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