

## Gaskets



Abbey Seals Xpress offer a gasket cutting service that is unmatched in Ireland. We manufacture a comprehensive range of standard and bespoke gaskets across a wide variety of materials. Our machine, the Atom Flashcut Flex 3020 has a working area of 3050mm x 2050mm, with high tech software for automatic nesting and state of the art electronics to sure high cutting capability and accuracy."

### MATERIALS WE CUT:

- Graphite
- Non Asbestos Sheeting
- EPDM
- Nbr
- Neoprene
- Silicone
- Viton®
- PTFE
- Expanded PTFE
- White Food Quality Rubber



### PTFE ENVELOPE GASKETS

PTFE Envelope Gaskets provide excellent sealing in corrosive environments. PTFE envelope gaskets are available in standard sizes and configurations as well as custom sizes, with a variety of materials available for fillers.

#### Common Uses For PTFE Envelope Gaskets:

- Food and Chemical Industries.
- Piping Service.
- Pharmaceutical Industry
- General Purpose For Glass Lined Industry.

#### Materials:

- Filler Materials
- Non Asbestos compressed fibre
- Elastomers, EPDM, Nbr, Neoprene, FKM etc
- Corrugated Metals



### SPIRAL WOUND GASKETS / METALLIC GASKETS

Metallic Gaskets come in a number of different forms and Abbey Seals supply many variations of these below:

#### Spiral Wound Gasket

Spirally wound metal strip and soft filler material, with or without retaining rings

#### Kammprofile

Concentrically grooved metal core with a soft facing material

#### CMG

Corrugated metal core with a soft facing material

#### Ring Joints

Solid metal gasket for ring joint faced flanges

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### SOFT CUT GASKETS

A Soft Gasket is used to describe a gasket that easily compresses under a low bolt load. Soft Cut Gaskets can be selected from a wide variety of non-asbestos sheets. They have qualities like excellent resistance to power, easy installation, temperature resistance, and longer functional life.

The soft cut gaskets are available in a number of different forms or material, such as:

- PTFE Sheet
- Non-Asbestos Sheet
- Flexible Graphite Sheet
- PTFE Envelope Gaskets
- Rubber of all grades, Cloth Inserted Rubber & Metal Inserted Rubber Gaskets.
- Vegetable Fiber Sheet
- Ceramic Fiber / Glass Fibre

### PTFE GASKETS

#### Industries

- Pharmaceutical
- Food and Beverage
- Chemical
- Oil & Gas

#### Expanded PTFE

Made from 100% expanded PTFE, this material is used for sealing media such as acids, oil, water, petrol up to temperatures of 280°C. The sheets can be cut into gasket form to suit flanges, heat exchangers etc.

#### Advantages

- Highly compressible
- Excellent Chemical Resistance
- Resistant against steam and condensate
- Ideal for use on slightly damaged surfaces due to material compressibility
- Superior Creep Resistance
- FDA conformity

### PTFE Joint Sealant Tape

100% Expanded PTFE Adhesive backed strip.

#### Advantages

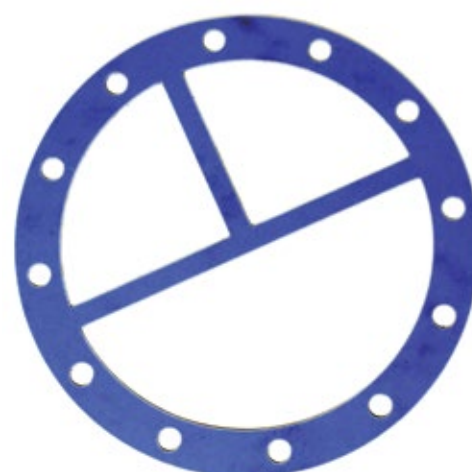
- Highly compressible
- Excellent chemical resistance
- Adhesive Backed
- Comes in a variety of widths and thicknesses.
- Ease of installation
- FDA Conformity

### Modified PTFE

Has all of the positive characteristics of PTFE, but eliminates or minimises the flow and creep issues that are common with conventional PTFE products. Available in various grades.

#### Advantages

- Suitable for sealing in aggressive chemical applications
- Can be used in applications where low bolt loads are needed such as glass lines vessels
- Excellent Creep resistance
- Resistance to wear and abrasion
- FDA Conformity
- Cold flow and creep resistance



Abbey Seals stock a vast range of Gasket sizes, while we can also manufacture in-house, any bespoke size you need for your specific requirements.

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### RUBBER GASKETS

Rubber materials allow flexible sealing capabilities and with excellent recovery capabilities regardless of the temperature extreme.

Being both durable and flexible the rubber material reduces noise and helps in vibration dampening. With a closed cell structure the seal becomes completely protected especially in relation to fluids, dust, air and moisture.

#### Materials

- Neoprene
- EPDM
- Nbr
- Viton®
- White Food Quality Rubber
- Silicone



### SPONGE GASKETS

Sponge Gaskets can be made from a variety of sponge and foam materials, many of which we hold in stock. These gaskets for typically used when moisture, dust, powder, air and gas retention are required.

The two types are Open Cell and Closed Cell Sponges. Open cell sponge has connecting cavities which make the sponge more compressible.

Closed Cell sponges are void of connected cavities, which makes them ideal for applications where water exclusion and sound and gas retention are paramount.



### HIGH TEMPERATURE GASKETS

Graphite (420°C) can be supplied in either compressed sheet form or foil reinforced laminate. Used in pipeline and vessel applications, including oils, solvents high pressure steam.

Thermiculite (1000°C) High Temperature, chemically resistant sheet sealing material. Suitable for high pressure, high temperature steam sealing applications.



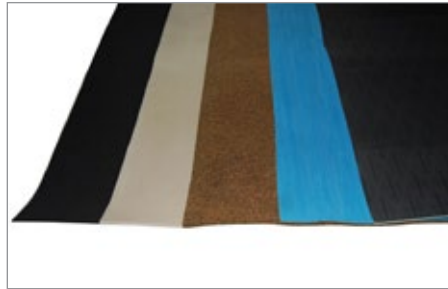
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### SANITARY GASKETS

We supply a massive range of different Sanitary Clamp Gaskets.

- Triclover®
- Cam Lock
- SMS
- RJT
- Din Rings
- Materials
- Platinum cured Silicone
- EPDM
- PTFE
- PTFE Envelope
- Viton®
- Nbr



### SHEETING PRODUCTS

Rubber sheeting comes in many grades and a wide range of thicknesses to allow for different sealing applications.

Typical Industries where sheeting is used include:

- Agricultural
- Marine
- Pharmaceutical
- Chemical Processing
- Food And Beverage
- Oil And Gas
- Dairy Services
- Water Treatment Plants



### INFLATABLE SEALS & EXTRUSIONS

The Inflatable Seals works something very similar to a bicycle tube, so when inflated they fill any gaps that may be within its housing. They can be re-used and inflated at any stage, and can retain their original shape when deflated.

These inflatable seals don't suffer from early loss of compression, and are designed to fill gaps that some other seals may not be able to reach. They create a seal even when the two faces are misaligned or non-concentric.

Abbey Seals supply a range of elastomers made from Silicone, EPDM, Nitrile and Viton.

**At Abbey Seals we can source and supply practically any Gasket you may need, just get in touch.**