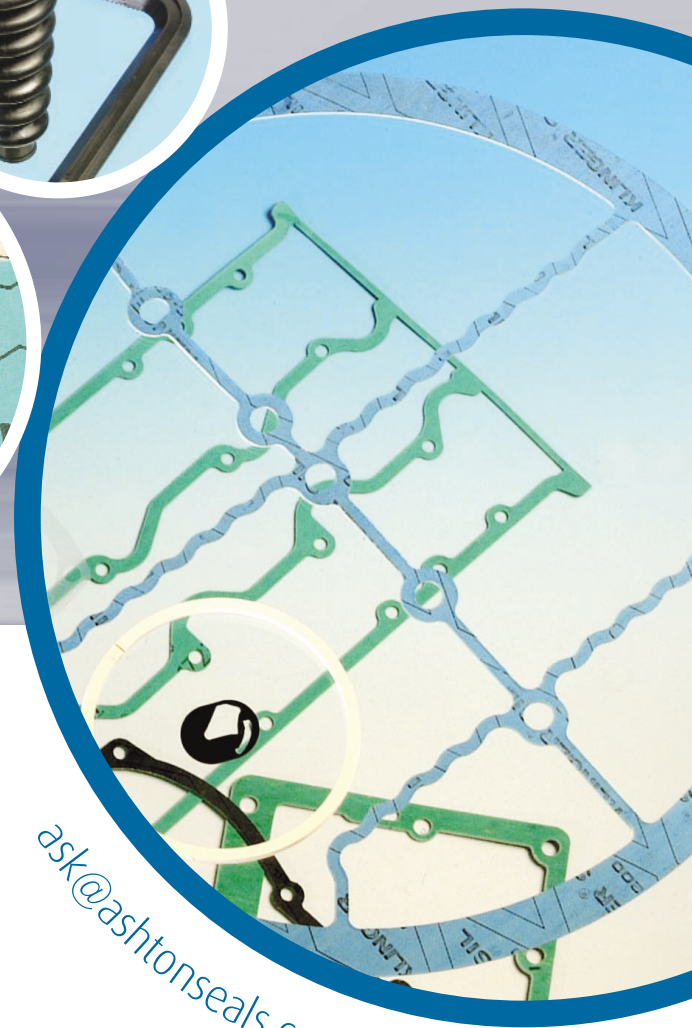




## GASKETS & SHEET JOINTING



[ask@ashtonseals.com](mailto:ask@ashtonseals.com)



# ASHTON ETHOS

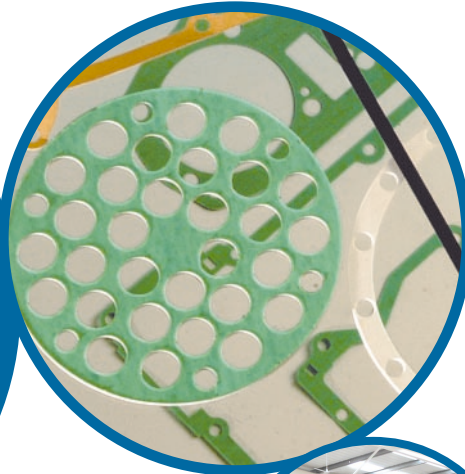
Established in Sheffield in 1866, the Ashton Group of Companies continues to be an independent privately owned business dedicated to and focused on the needs of its customers.

Our commitment to quality is reflected in our rigorous Quality Control Systems, which are approved to ISO 9001:2000. This allegiance to quality ensures full traceability of all our products, leading to total customer confidence in the products and service provided by Ashton Seals.

## ACQUISITION

In April 2003 Ashton Seals' position was strengthened through the acquisition of the gasket cutting company Clough (Croydon) Ltd., a specialist in the production of high quality gaskets and the supply of sheet jointing, all of which complement the existing Ashton Seals' portfolio.

Tim Wills Chairman

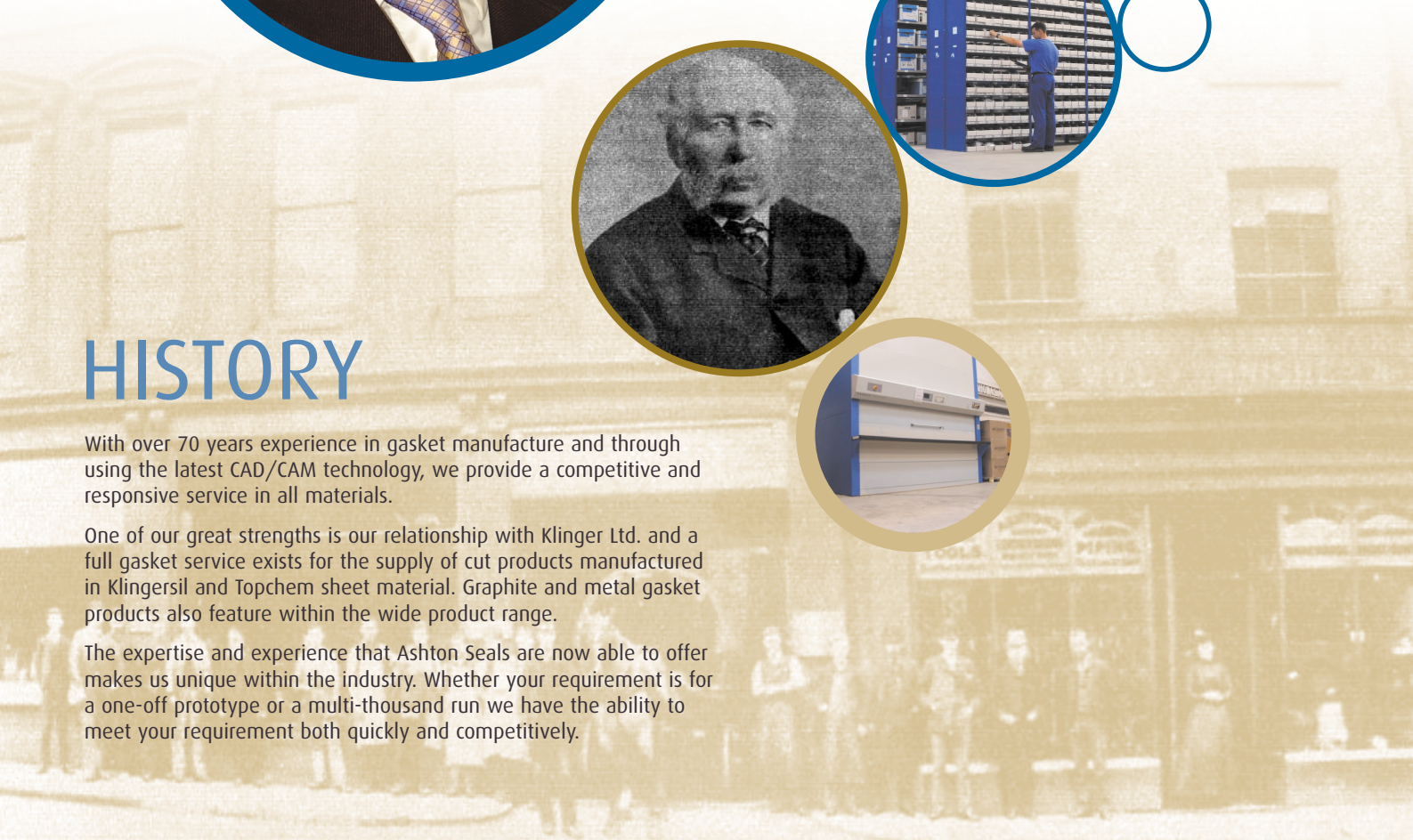


## HISTORY

With over 70 years experience in gasket manufacture and through using the latest CAD/CAM technology, we provide a competitive and responsive service in all materials.

One of our great strengths is our relationship with Klinger Ltd. and a full gasket service exists for the supply of cut products manufactured in Klingersil and Topchem sheet material. Graphite and metal gasket products also feature within the wide product range.

The expertise and experience that Ashton Seals are now able to offer makes us unique within the industry. Whether your requirement is for a one-off prototype or a multi-thousand run we have the ability to meet your requirement both quickly and competitively.





# CUT GASKETS & SHEET

Ashton Seals stock a complete and versatile range of material, including compressed synthetic fibre (CSF), together with commercial rubber, neoprene, nitrile, EPDM, butyl, silicone, Viton® and polyurethane elastomeric sheet.

In addition, we maintain large stocks of various grades and thicknesses of plain and rubber-bonded cork, gasket paper, felt, plain and reinforced graphite, vulcanized fibre, plastic and sponge materials and virgin, filled and/or expanded PTFE. As might be expected of a company with our experience, we recognise and can certify to most British and many other foreign standards.







Working with Klinger, the major player in the UK gasket and sealing industry, Ashton Seals offer a comprehensive selection of asbestos-free jointing materials to suit a wide range of applications.

## THE RANGE INCLUDES:

### **Klingersil C4430**

Premium quality compressed fibre jointing based on glass fibre with NBR binder.

**Colour:** Green one side, White one side.

**Finish:** 3xA anti-stick surfaces.

Available with wire reinforcement.

General purpose material with excellent chemical resistance and mechanical properties. Suitable for use with air, steam, oils and fuels, gases (including oxygen) and potable water applications.

### **Klingersil C4400**

Premium quality compressed synthetic fibre jointing composed of aramid fibres with NBR binder.

**Colour:** Green both sides.

**Finish:** 3xA anti-stick surfaces.

Available with wire reinforcement.

General purpose material which is suitable for use with air, water, steam, oils, fuels and gases. Particularly suitable for use in internal combustion engines, compressors and hydraulics applications.

### **Klingersil C4500**

Top quality compressed synthetic fibre jointing material composed of carbon fibre with NBR binder.

**Colour:** Black both sides.

**Finish:** 3xA anti-stick surfaces.

Available with expanded steel reinforcement.

Universal material with excellent steam (290 degC) oil and chemical resistance. Particularly suitable for use in highly alkaline applications and applications requiring high load bearing characteristics.

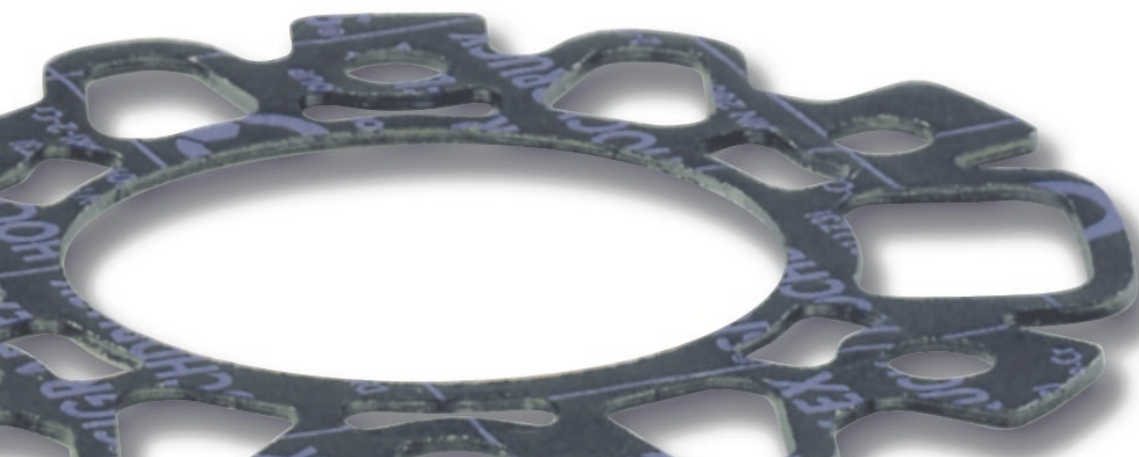
### **Klingersil C8200**

Premium quality compressed fibre jointing consisting of a blend of organic and inorganic fibres with a special elastomer binder.

**Colour:** Off-white both sides

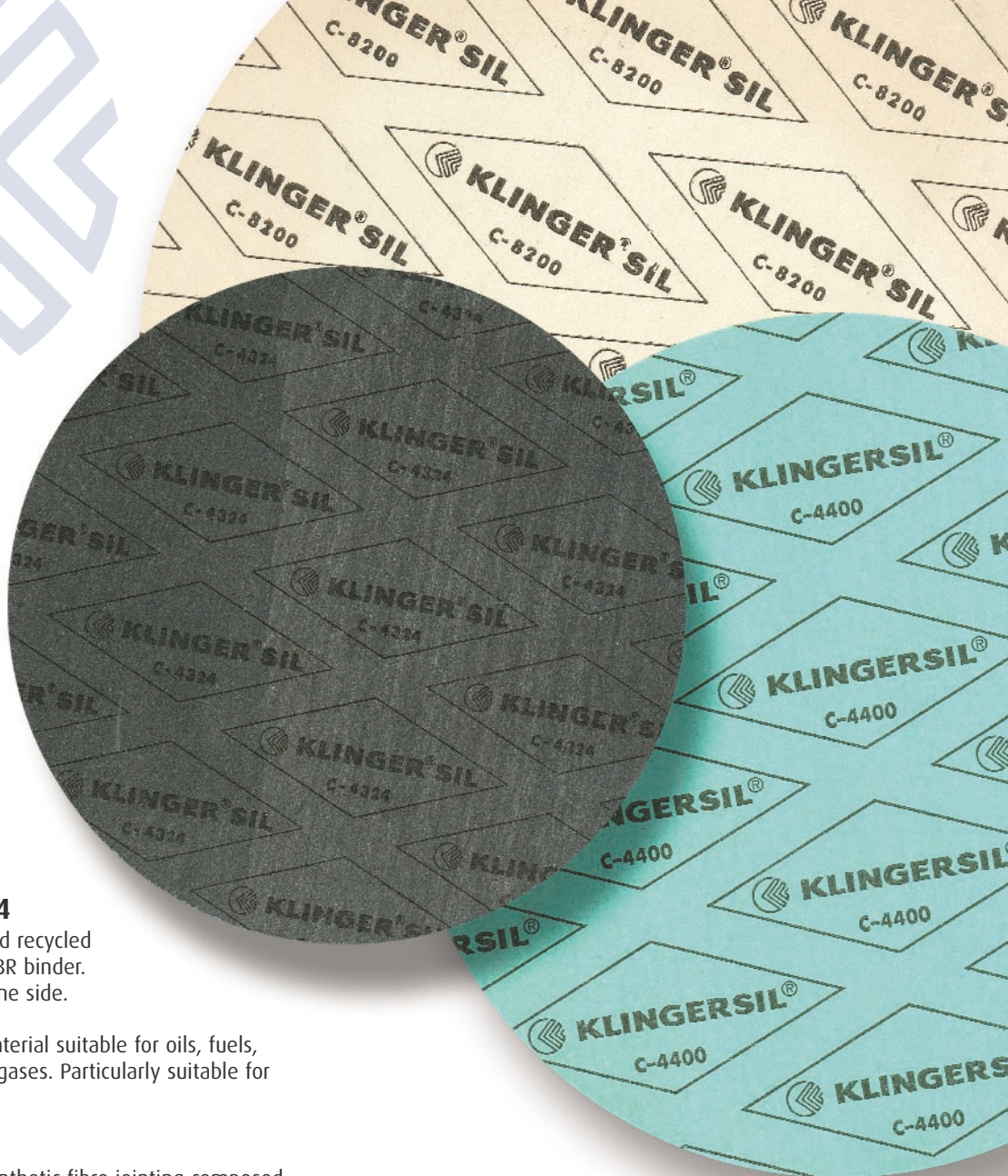
**Finish:** 3xA anti-stick surfaces.

Chemical grade jointing with wide resistance range including most acids, fuels, oils, solvents, alkalis, water and steam. (Not suitable for concentrated nitric acid).





Artios Cutting System



### Klingsil C4324

Medium quality compressed recycled synthetic fibre jointing with NBR binder.

**Colour:** Black one side, Green one side.

**Finish:** 3xA anti-stick surfaces.

General purpose commercial material suitable for oils, fuels, low pressure steam, water and gases. Particularly suitable for sealing natural gas.

### Klingsil C6307

Premium quality compressed synthetic fibre jointing composed of aramid fibres with SBR/NR binder.

**Colour:** Fawn both sides.

**Finish:** 3xA anti-stick surfaces.

Highly suitable for automotive applications due to "controlled swell" properties in oil combined with good resistance to water. Also suitable for light industrial and domestic appliance applications.

### Klinger Graphite SLS

Pure exfoliated (expanded) graphite with a stainless steel foil reinforcement for improved handling characteristics.

A top quality universal material with excellent performance at high temperature.

### Klinger Graphite PSM-AS

Pure exfoliated (expanded) graphite with a tang (pegged) stainless steel sheet reinforcement for improved blow-out resistance.

A top quality universal material with excellent performance at high temperature and pressure, with special anti-stick finish.

### Klinger Milam PSS

Top quality jointing material consisting of micaceous material with stainless steel tang reinforcement.

**Colour:** Light Brown

Suitable for use in hot dry gas applications such as exhaust manifolds, turbines, turbo chargers, air heat exchangers.





# GASKETS & JOINTS

Tooling is available to produce all standard pipe flange gaskets (BST, ASA, DIN etc.) from any material. Simply advise:-

- **GRADE REQUIRED**
- **THICKNESS**
- **FLANGE SPECIFICATION (E.G. BS 10, ASA 300, BS 4504)**
- **THE NOMINAL BORE**
- **WHETHER INSIDE BOLT CIRCLE (RING JOINT) OR FULL FACE**

For individual requirements to customer specification, new tooling can be produced and gaskets cut in many instances on a 24 hour basis.

## Special Gaskets

Should press cutting not be practical or economical, we have the ability and experience to produce hand-made joints to any shape or size. A complete gasket cutting service is available in these materials:

### Cork

The durability and versatility of cork has made it one of the most popular materials for sealing applications. Being a natural product, it possesses many advantages. It can be compounded with a variety of raw materials to provide a comprehensive range of sealing products.

The merits of various synthetic rubber compounds such as neoprene, nitrile and silicone are well known. By blending carefully selected high quality cork granules with these polymers, finished products can be provided which combine all the advantages of rubber:-

High tensile strength, resistance to many fluids, ability to withstand extremes of temperature – with the natural properties of cork - high compression, good recovery and low-load sealing.

### Neoprene Bonded Cork

Is by far the most versatile and popular of the whole range of cork sheetings. Widely used in the petrochemical industry, in marine and general engineering, on large internal combustion engines, compressors, refrigerator systems, transformers and on any similar application where efficient sealing is required under vibrating or fluctuating conditions.

### Nitrile Bonded Cork

Compounded especially for use with aromatic, high octane and aviation fuels (kerosene), the range of materials under this heading can also be varied in formula to provide optimum sealing with controlled swell under the most arduous conditions.

### Gasket Paper

Made from vegetable fibre, specially impregnated to provide high resistance to petroleum derivatives, solvents and lubricating oils and suitable for operating at temperatures of up to 120°C (250°F). It is available in roll form 1 metre wide and in thicknesses from 0.15mm to 3mm.

## Plastics

We manufacture gaskets and machined components from many of the different engineering plastics – e.g polythene, nylon, PVC and fluorocarbons such as Viton® and PTFE.

### PTFE

PTFE provides excellent resistance to an exceptionally wide range of aggressive substances. Additionally it is chemically inert, increasing its suitability for applications sensitive to external contamination.

### PTFE Sheetting

To BS 3784. Available in thicknesses from 0.8mm to 51mm and in sheet sizes from 305mm x 305mm to 1220mm x 1220mm. Chemically or mechanically etched sheet and strip is available where bonding to other components or structures is required. Thinner gauge sheeting is also available.

### PTFE Extruded and Moulded Rod and Tube

We have access to Extruded and Moulded PTFE rod and tube. Whatever the application we can supply an efficient solution to meet your requirements.

### Virgin, Expanded or Filled PTFE

Virgin PTFE grades are used for gaskets in the food & pharmaceutical industries. Expanded PTFE grades are used for damaged flange faces and glass or plastic flanges. Filled PTFE grades are used where specific physical or electrical properties are required.

### PTFE Envelope/Rubber Insert Gaskets

Standard rubber joints can be provided with an envelope of pure PTFE to protect the exposed joint edge from corrosive attack, or for applications where hygienic conditions are essential. In addition we stock a wide range of PTFE envelopes to suit standard pipe flanges and special envelopes can be fabricated to almost any given size of insert.

# RUBBER

We maintain a comprehensive range of rubber sheeting in a variety of thicknesses from which the vast majority of applications can be satisfied.

Rubber sheeting and strip can be supplied in many qualities and cut to suit your requirements. Our technical sales staff will be pleased to advise you on the most economical means of meeting your needs.

Sponge rubber gaskets and strip is available where a joint is required to be highly compressible under light flange loading. We can produce a wide variety of gaskets, joints and strip in many grades of sponge rubber, with or without a pressure-sensitive adhesive backing.

Rubber extrusions and moulded components. We provide an efficient service for extruded, moulded and machined components and will be pleased to discuss your specific requirements.

## Rubber Matting

Since the origination of the standard for electrical matting in 1976, BS921 Safety Matting has been widely used in a variety of switchboard, high voltage, test bench & repair shop applications. We supply 15Kv (BS921), in 3 standard roll widths (914mm, 1m & 1.22m). 11Kv matting is also available in these same sizes.



# YOU'LL BE AMAZED WHAT'S POSSIBLE!

The flexibility of Ashton Seals, to produce gaskets of any size and respond to customers' various demands is demonstrated by the photographs below.

This Gasket was made from 5mm Neoprene to the following dimensions: 3330mm id x 3420mm od.

The photograph further shows the ability of the Artios CAD system, where gaskets can be measured, checked, changed, stored, rescaled or even redesigned.

Offering the latest and most powerful software and cutting technology, our investment in the Artios Kronsberg Cutting System further enhances the traditional service we offer to industry.





A comprehensive range of products  
available from Ashton Seals

Gaskets & Sheetting

Lubrication

O-Rings

Cordstock

FEP Encapsulated O-Rings

Oil Seals

Back-up Rings

Quad® -Rings

Bonded Seals

In-line Filter Seals

Shaft Repair Sleeves

End Caps

VR Rotary Seals

Moulded Parts

Hydraulic Seals

Copper Rings

Profiles

Kits

Mechanical Seals

JM Clipper Seals

Ashton Seals Ltd • PO Box 269 • Cortonwood Drive • Cortonwood Business Park • Brampton • Barnsley S73 0YP  
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