

GRAPHITE DIVISION

Converting expanded flexible graphite into a wide range of gaskets, sealing products, foils, tapes and specialist sheets. We are able to offer Spiral wound gasket fillers slit in-house, alongside our reinforced graphite laminate sheets all to our customers own requirements.

With a history of solving application based problems from cryogenic to elevated temperatures and vacuum to high pressures. Gee Graphite continue to supply high quality products in a wide range of materials all around the world.

What does our Graphite Division offer?

Our graphite division offers a wide range of sheet materials in a variety of high purity foils and a wide range of laminates including nickel, stainless steel, tanged stainless steel and polyurethane. We produce flexible graphite gaskets, gaskets of other materials including rubber, cork, mica, non-asbestos fiber & paper, plain & corrugated tapes, die formed rings, braided packing, packing sets, spiral wound filler materials & gaskets along with other sealing solutions.

Our Geegraf products include:

- Braided packing
- Branded sheets
- Carbon fibre
- Die formed rings
- Foils
- Gaskets
- Kammprofile gaskets
- Laminated sheets
- Machined graphite
- Reinforced sheets
- Spiral wound gaskets & fillers
- Tapes



Priding ourselves on being at the cutting edge of technology we remain a leader in our chosen sectors. We offer customers innovative products and technologies to help achieve their ever changing needs developing new products to deal with increasing legislation on fugitive emissions and providing graphite solutions for tomorrows sealing applications. By developing our own in-house laminating system we have established methods of bonding graphite foils to a range of metal cores including Nickel and Stainless Steels. The laminated material is not only suitable for high temperature applications but does not delaminate during the die cutting or water jet cutting processes.

More information about some of our broad range of products:

Graphite Die Formed Rings

Geegraf die formed rings are produced from high purity homogenous flexible graphite with no binders or fillers and have outstanding chemical resistance. Some of our moulded rings are manufactured on site using our extensive range of tooling or to customers specific requirements, they can be supplied individually or in sets as a square section, chamfered, split in matching halves, rings can also be supplied with metal end caps and metal eyelets for high pressure anti extrusion applications.

Moulded rings/die formed rings have the ability to provide a leak-free seal for high performance valve applications, with their excellent chemical resistance and the ability to withstand most media in the oil and gas industry.



Braided Packing

Geegraf braided packing is manufactured from pure expanded graphite yarn and treated with corrosion inhibitors to aid long service. Graphite packing is fire safe and serviceable in temperatures of up to 450°C and is suitable for use in static, reciprocating, high pressure, high temperature valves in a wide range of industries.

Foils

Our Geegraf graphite foil is sold in sheets & rolls, providing a resilient and compressible sealing material. It exhibits excellent fluid sealing performance for critical high temperature applications.



Gaskets

Geegraf gaskets are manufactured using state of the art CNC punching and water jet cutting equipment. With the ability to layer when cutting materials giving us a possible yield 120 gaskets per cycle meaning we can offer short lead times if required. Inside bolt circle and full face gaskets supplied to all recognized international standards, non standards gaskets cut to customer drawings and specifications. The process has been modified over our years of experience to suit the production of gaskets with the added ability to reverse engineer. Now the most intricate designs can be cut accurately with no tooling costs offering a clean safe, smooth edge finish. Using our unique system we can offer dovetailing for larger diameter gaskets and adhesive backing for most materials.

Kammprofile Gaskets

The Kammprofile/Camprofile is a composite gasket which utilises a serrated metal core with soft facing material. The metal core is machined on each contact face with concentric serrations which provide high surface stress ensuring that the soft coating flows into imperfections in the flange even at relatively low bolt loads. The result is a gasket which combines the benefits of soft cut materials with the advantages of seal integrity associated with metallic gaskets. Expanded graphite is the most common facing material used for Kammprofiles. However other materials can be used, such as PTFE for chemically aggressive applications or mica for higher temperature applications. Main applications are steel flanges and steel vessels. Special purpose dimensions are available on request. These type of gaskets can also be manufactured from a range of core materials according to media compatibility and temperature considerations.

Tapes

Our graphite tapes are produced in house using the latest CNC controlled slitting equipment, this gives consistently accurate tape widths from 3mm upwards and minimum material wastage. Tapes are supplied either plain or corrugated and can be adhesive backed.

Spiral Wound Gaskets & Fillers

Spiral wound gaskets have the ability to recover under the action of fluctuating loads caused by process fluid pressure and temperature changes, flange face temperature variations, flange rotation, bolt stress relaxation and creep. The gasket-sealing element on the spiral wound gaskets consists of a pre-formed metallic winding strip with layers of a softer, more compressible sealing material which, during compression, is densified and flows to fill imperfections in the flange surfaces when the spiral wound gasket is seated. The metal strip holds the filler giving the spiral wound gasket mechanical resistance and resilience. SWG Fillers are produced in house using the latest CNC controlled slitting equipment, this gives consistently accurate tape widths from 3mm upwards and minimum material wastage and can be adhesive backed. We can offer the fillers in not only graphite but in PTFE & mica in various lengths and widths available upon request.



Machined Graphite

Whilst offering a variety of flexible graphite products we offer a full range of extruded and isostatic graphite machined parts to be used in various industries and applications including aluminium, electrochemical, nuclear, laboratory and medical technology.

We can supply graphite machined components manufactured from high quality extruded, isostatic or molded carbon/graphite grades. These can be from a plain graphite rod / plate to a fully machined part to your drawing.





GRAPHITE DIVISION

Offering an extensive range of
graphite based products



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