



# STAINLESS STEEL REINFORCED GRAPHITE

Our stainless steel reinforced graphite sheet material comprises of two outer layers of graphite with a stainless steel core 0.05mm thick, we offer the complete process from selection of high purity graphite foil, laminating, curing and final inspection all carried out in house, by using our unique high temperature adhesive system giving a 100% bond we can convert the finished sheet in to gaskets with narrow land widths and/or complex geometry with no delamination.

- **Graphite Purity**  
99% minimum
- **Stainless steel foil reinforcement**  
0.05mm thick 1.4401 316
- **Maximum service temperature**  
550°C in oxidising conditions. Consult Gee for further information
- **Maximum service temperature**  
750°C in inert and reducing conditions
- **Maximum service pressure**  
140 Bar
- **Compressibility**  
40 to 50%
- **Recovery**  
10 to 15%

Stainless steel reinforced graphite gaskets are used in applications such as pumps, fitting and valves with low gasket stresses. It's excellent sealing abilities are also used were corrosive media is present and can be used at cryogenic temperatures. Sheets are available 1000mm x 1000mm and are available in a variety of thicknesses from 0.5mm to 4.0mm, easily cut by traditional methods.

All graphite foils can be waterjet cut to create various shaped gaskets. On site we have our state-of-the-art water jet cutting machines which can provide you with precision cutting on our abrasive and water only machines. The process has been modified to suit the production of gaskets and now the most intricate designs can be cut accurately with no tooling costs offering a clean safe, smooth edge finish.

All data quoted is based on years of experience in production & operation of sealing solutions. In view of the wide variety of possible installation & operating conditions this cannot draw final conclusion in all application cases regarding the behaviour of the product. The data may not therefore, be used to support any warranty claims. Should you have any doubts about the choice of material, please contact Gee Graphite direct. Tel UK 01924 480011.

# GRAPHITE