



STAINLESS STEEL TANGED GRAPHITE

Our Geegraf stainless steel tanged material comprises two outer layers of graphite foil with a central tanged stainless-steel core 0.1mm thick mechanically bonded therefore no need for adhesive. We offer the complete process from selection of high purity graphite foil, punching the stainless steel and compressing with force to form the sheet followed by final inspection all carried out in house.

- **Graphite Purity**
99% minimum
- **Stainless steel foil tanged**
0.1mm thick 1.4401 316SS foil tanged
- **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**
30 to 40%
- **Recovery**
15 to 20%

Due to the thickness of the tanged core; gaskets are best cut using the abrasive water jet cutting process. This material is commonly used as a gasket material in steam system applications, the petrochemical and chemical industries and as flange gaskets for piping and machinery. It's excellent sealing abilities are also used where corrosive media is present and can be used at cryogenic temperatures. Soft, flexible with high recovery and no ageing. Impermeable to gases and liquids, inert, resistant to radiation and excellent resistance to thermal shock. Low coefficient of friction, long term stability and excellent residual stress.

Optimum material for thermal cycling applications and where vibration is a problem.

All graphite foils can be water jet 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