

## FLEXIGRAF FGS3

**DESCRIPTION :** FLEXIGRAF FGS3 is > **99% pure graphite** foil reinforced with 0.1 mm thick tanged **stainless-steel** core (AISI 316L grade).

**SERVICE:** FLEXIGRAF FGS3 is recommended for applications involving high sealing stresses and where high blow-out resistance is required. The inclusion of steel reinforcing layer gives rise to a robust sheet. Can be used to seal a wide range of media, with the exception of strong oxidising agents, at extreme temperature and pressure. Typical industries where FGS3 is used include power generation and petrochemical plants. The flexible graphite complies the Directive RoHS.

Maximum recommended temperature: 550°C (1020°F)

Maximum recommended pressure: 20 MPa (200 bar; 2900 psi)

Note: for applications sealing inert or reducing media, attention must be given to the possibility of oxidative attack on the gasket from the external environment. Use with strong oxidising agents should be avoided.

**PHYSICAL PROPERTIES:**

Thickness:	1.5	mm
Density	1,2-1,5	g/cm <sup>3</sup>
Compressibility (ASTM F36)	35-45	%
Recovery (ASTM F36)	14-17	%
Residual Stress DIN52913 (300°C)	38-48	MPa
ASTM Tensile Strength	20	MPa

**GRAPHITE**

Density Graphite	1,0	g/cm <sup>3</sup>
Total Chloride content	<50	ppm
Total Fluoride content	<50	ppm
Total Sulphur content	<1000	ppm

**AVAILABILITY:**

Sheet size:	1 x 1m; 1.5 x 1m; 1.5 x 1.5m.
Tolerance:	+0/- 50 mm
Thickness range:	0.5 to 5.0 mm
Tolerance:	±10%

We can supply other sizes and thickness upon request.

This technical data is the result of laboratory test. It has to be considered as standard; to get a specific suggestion about the best material for each application it is necessary to give as many details as possible. Temperature and pressure values cannot be reached simultaneously and may not be apply at all thicknesses. Planichem is issuing this literature as a pure informative document

