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FLEXIGRAF FGS4

DESCRIPTION : FLEXIGRAF FGS4 is > **99% pure graphite** foil reinforced with 0,05 mm thick flat **stainless-steel** core (AISI 316L grade).

SERVICE: FLEXIGRAF FGS4 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 FGS4 is used include power generation and petrochemical plants.

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

Maximum recommended pressure: 15 MPa (150 bar; 2175 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	1,15-1,45	g/cm^3
	Compressibility (ASTM F36)	40-50	%
	Recovery (ASTM F36)	10-15	%
	Residual Stress DIN 52913 (300°C)	> 45	MPa
	Compressibility DIN3535-6	30-45	%
	Recovery DIN3535-6	3-7	%
	Leakage DIN 3535-6	<0,1	mg/(s*m)
	ASTM Tensile Strength	20	MPa
GRAPHITE	Density Graphite	1,0	g/cm^3
	Total Chloride content	<50	ppm
	Total Fluoride content	<50	ppm
	Total Sulfur content	<1000	ppm
AVAILABILITY:	Sheet size:	1 x 1m; 1.5 x 1m; 1.5 x 1.5m.	
	Tollerance:	+0/- 50 mm	
	Thickness range:	0.5 to 3.0 mm	
	Tollerance:	±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.

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