

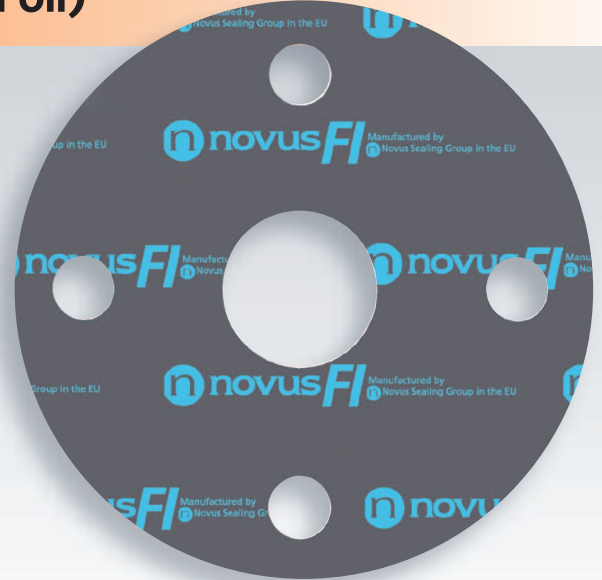
# Flexitallic

**novus**<sup>TM</sup>  
a Flexitallic brand

**WILLIAM JOHNSTON**  
& COMPANY LIMITED

## Data / Specification Sheet • Novus FI (Foil)

**Novus FI** is a graphite laminate material with one or more thin, flat stainless steel 316 insertions. The thickness of the reinforcement is 0.05mm. The graphite sheet is fixed to the insertion by means of a super thin chloride-free adhesive layer. This reinforcement results in a sturdy gasket which is relatively easy to handle and simple to process into gaskets.



### Service

Novus FI is used in a wide range of applications in the chemical and petrochemical and manufacturing industries, including pumps, compressors and pipe joints. It is commonly used as a back up sheet for Novus TI due to the ease of manual cutting.

### Approvals / Compliance

BAM for Oxygen approved

### Availability

Thickness range:  
1.0mm to 3.0mm

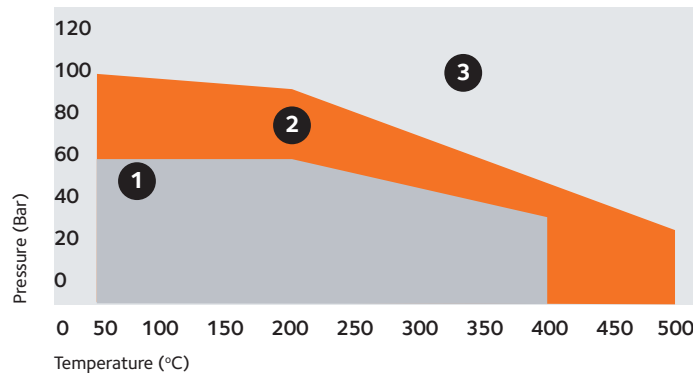
Standard sheet size:  
1.0m x 1.0m

Other thicknesses available  
on request.

### Physical properties

<b>Thickness</b>	1.5mm	
<b>No. of Inserts</b>	1	
<b>Density</b>	1.0g/cm <sup>3</sup>	
<b>Ash Content</b>	Max 2%	
<b>Chloride Content</b>	Max 50ppm	
<b>Compressibility</b>	ASTM F36A	40-50%
<b>Recovery</b>	ASTM F36A	10-15%
<b>Residual Stress</b>	DIN 52913 (300°C)	Min 45 MPa
<b>ASME m Factor</b>	2	
<b>y Value</b>	1500psi	

### Novus FI Pressure/Temperature Limits



- 1 Suitable subject to chemical compatibility.
- 2 Suitable in some cases but check your application requirements with Flexitallic.
- 3 Contact the Technical Team for applications with higher temperatures and pressures. Applicable to 1.5mm and below.

The operating temperature of non-asbestos sheet material is related to the thickness of materials selected. Thinner materials give better temperature and pressure properties.

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