



## WILLIAM JOHNSTON & COMPANY LIMITED

Glasgow Tel: +44 (0) 141 620 1666 | Inverness Tel: +44 (0) 1463 238 673  
[sales@williamjohnston.co.uk](mailto:sales@williamjohnston.co.uk) | [www.williamjohnston.co.uk](http://www.williamjohnston.co.uk)

# Flexitallic®

**novus**  
a Flexitallic brand

## Data / Specification Sheet • Novus 49 Graftec

**Novus 49 Graftec** is a compressed sheet material which combines a high percentage of graphite, reinforced with aramid fibres and a small amount of rubber binder.

### Service

Novus 49 Graftec is a high performance material with excellent mechanical properties. It is suitable for many applications including oils, solvents, high pressure steam and gases including oxygen.

### Approvals / Compliance

WRAS Potable Water:  
 Registration No. IS10510  
 BAM (Oxygen service) up to 90°C and 160 bar  
 Complies with BS Specification 7531 Grade X

### Availability

Thickness range:  
 0.4mm to 6.0mm

Standard sheet sizes:

2.0m x 2.0m  
 2.0m x 1.5m  
 2.0m x 1.0m  
 1.5m x 1.5m  
 1.5m x 1.0m

Standard roll sizes:

Up to a maximum size of 6.0m x 2.0m

Available with fine mesh mild steel reinforcement: Novus Graftec Metallic  
 or gauze mild steel wire reinforcement: Novus Graftec GWI.

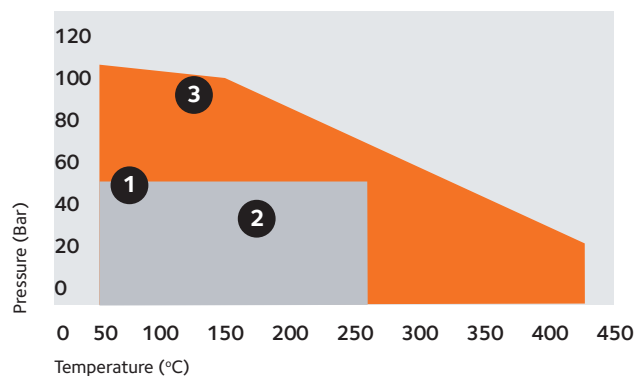
Supplied with anti-stick coating as standard.



### Physical properties

<b>Thickness</b>		1.5mm
<b>Density</b>		1.65g/cc
<b>Tensile Strength</b>	ASTM F152	13MPa
<b>Compression</b>	ASTM F36	11%
<b>Recovery</b>	ASTM F36	55% min
<b>Residual Stress</b>	BS 7531 (300°C) DIN 52913	26MPa 31MPa
<b>Gas Leakage</b>	BS 7531	<1.0cc/min
<b>ASTM Oil 1</b>	Thickness increase	1.0%
<b>IRM 903 Oil</b>	Thickness increase	2.5%
<b>ASTM Fuel B</b>	Thickness increase	2.5%

### Novus 49 (Graftec) 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.

As the company's products are used for a multiplicity of purposes and as the company has no control over the method of their applications or use, the company excludes all conditions or warranties, expressed or implied by statute or otherwise, as to their products and/or their fitness for any particular purpose. Any technical co-operation between the company and the customer is given for customers assistance only, and without liability on the part of the company.