

# Flexitallic

**n novus**<sup>TM</sup>  
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. 1009505

BAM (Oxygen service) up to 90°C  
and 160 bar

Complies with BS Specification 7531 Grade X

TA-LUFT (in accordance with VDI  
Guideline 2440)

### 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.

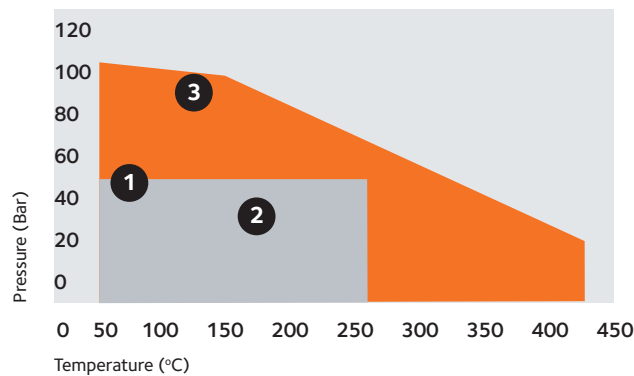


### Physical properties

<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%

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### 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.

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Please note, failure to select the correct materials or products we supply ("the Products") may result in damage to plant, equipment or property. In some instances, it may cause death or personal injury. We are not designers and do not give advice about design related matters concerning the Products. We can help and assist with the technical specifications for the Products. In specific applications, particularly where critical conditions exist, we will try to assist you within the limitations of the services that we offer. All information supplied by us is intended as technical co-operation outlining the specifications of the different Products which we supply. To the extent permitted in law, no warranty is given in respect of any information supplied by us. The customer must satisfy themselves as to the suitability of the Products for their intended application and use. The correct fitting of Products is the responsibility of the customer. Your statutory rights remain unaffected. Save in respect of death, personal injury or fraud, our entire liability to you, however arising from the supply of Products shall be limited to the £10M indemnity amount provided by our insurers.