

# 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.

**5G**  
SHEET MATERIAL



### 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

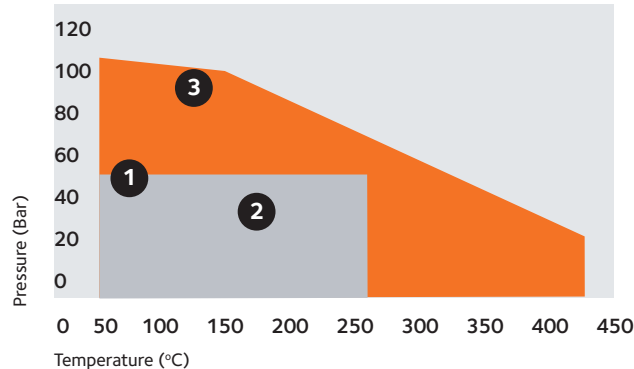
Available with fine mesh mild steel  
reinforcement: Novus Graftec Metallic  
or gauze mild steel wire reinforcement:  
Novus Graftec GWI.

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)	26MPa
	DIN 52913	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.

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