

## 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

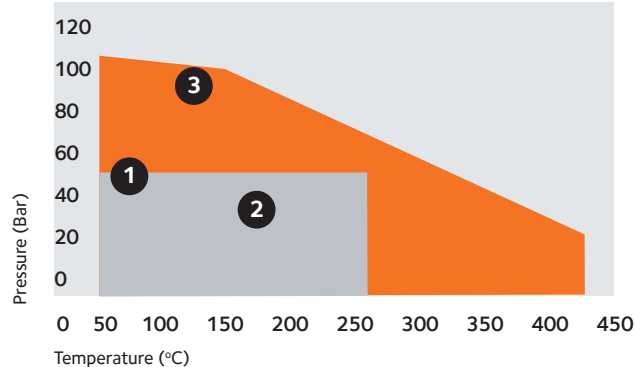
Available with fine mesh mild steel  
 reinforcement: Novus Graftec Metallic  
 or gauze mild steel wire reinforcement:  
 Novus Graftec GWI.

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)    | 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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