



**WILLIAM JOHNSTON
& COMPANY LIMITED**

Tel: 0141 620 1666

Fax: 0141 620 1888

sales@williamjohnston.co.uk

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. 0004502

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.

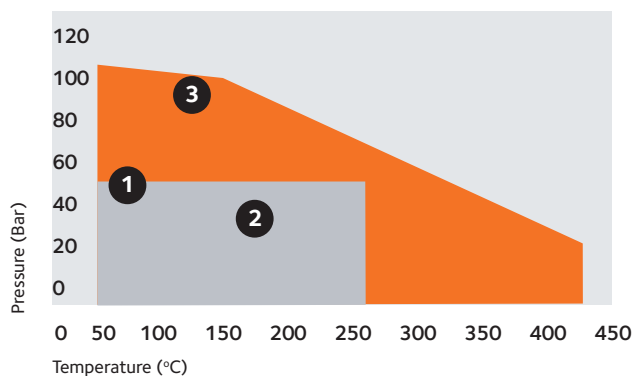
Supplied with anti-stick coating as standard.



Physical properties

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