

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. 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.

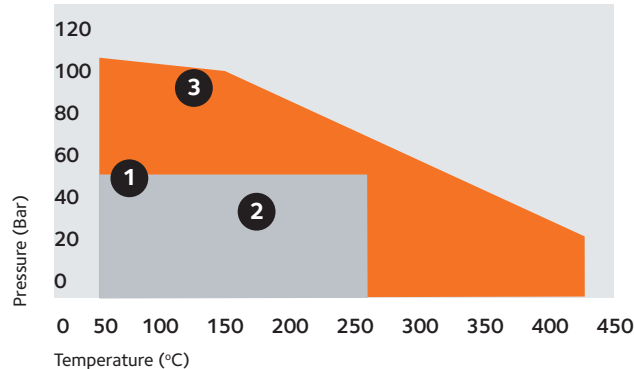
Supplied with anti-stick coating as standard.



Physical properties

| | | |
|-------------------------|--------------------|------------|
| 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) | 26MPa |
| | DIN 52913 | 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.

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