



# WILLIAM JOHNSTON & COMPANY LIMITED

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# Flexitallic®

**novus**  
a Flexitallic brand

## Data / Specification Sheet • Novus 34

**Novus 34** is a superior performance universal compressed sheet material based on a blend of aramid/ inorganic fibres and special additives, with high quality nitrile rubber binder system.



### Service

Novus 34, a superior performance material with excellent mechanical properties, it is suitable for many applications including oils, solvents, high pressure steam and gases including oxygen.

### Approvals / Compliance

DIN-DVGW (Gas Industry) NG-5123 AR0822

WRAS Potable Water: Registration No. 0405520

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

Independently tested to Shell specification MF 94-0960

Complies with BS Specification 7531 Grade X

TA-LUFT (in accordance with VDI Guideline 2440)

GL Approval cert 37702 – 12HH

### Availability

Thickness range:  
0.25mm 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

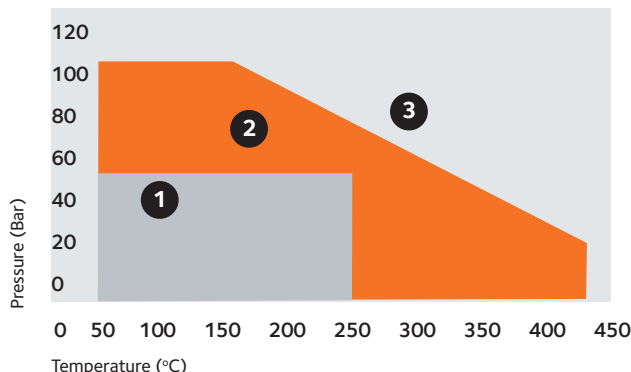
Available with fine mesh mild steel reinforcement: Novus 34 Metallic or gauze mild steel wire reinforcement: Novus 34 GWI.

It can be supplied with anti-stick coating and graphite coating.

### Typical Physical Properties

<b>Thickness</b>		1.5mm
<b>Density</b>		1.75g/cc
<b>Tensile Strength</b>	ASTM F152	9-11 MPa
<b>Compression</b>	ASTM F36	9%
<b>Recovery</b>	ASTM F36	55% min
<b>Residual Stress</b>	BS 7531 (300°C) DIN 52913	26MPa 32MPa
<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	3.0%

### Novus 34 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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