

## PRODUCT DATASHEET

# FLEXICARB® RGS 1



RGS 1 is a high purity graphite laminate reinforced with a nickel foil core.

### Service:

FLEXICARB® RGS 1 is recommended for general sealing applications and can be used for sealing steam and most chemicals with the exception of strong oxidizing media. It is particularly recommended where ease of gasket cutting is important.

Use with strong chemical oxidising agents should be avoided.

### Maximum recommended temperature:

Thermal oxidising media 370°C  
Inert or reducing media 1000°C

For applications sealing inert or reducing media, at temperatures in excess of 370°C, attention must be given to the possibility of oxidative attack on the gasket from the external environment.

For long term continuous use in oxidising environments at temperatures in excess of 370°C please consult Flexitallic Applications Engineering Department.

### Maximum recommended pressure:

ASME B16.5 Class rating pressure systems up to and including 600.

PN rated pressure systems up to and including PN100.

### Materials:

Facing material:  
98% pure graphite foil.

Reinforcement:  
13 micron pure nickel foil.

Bond Type:  
Adhesive.

### Availability:

Sheet size:  
1.0m x 1.0m  
1.5m x 1.5m

Thickness range:  
0.4 – 3.0mm

**Colour:** Silver / Grey

### Typical Physical Properties:

Thickness	1.5mm
Density	1gcm <sup>-3</sup>
ASTM F36A Compressibility	45%
ASTM F36A Recovery	10%
BS 7531 Residual Stress	39MPa
ASTM F152 Tensile Strength	7MPa
Leachable Chloride Ion Content	< 50ppm
Leachable Fluoride Ion Content	< 50ppm

This Data Sheet refers to the material as supplied. The information contained herein is given in good faith, but no liability will be accepted by the Company in relation to same.

We reserve the right to change the details given on this Data Sheet as additional information is acquired. Customers requiring the latest version of this Data Sheet should contact our Applications Engineering Department.

The information given and, in particular, any parameters, should be used for guidance purposes only. The Company does not give any warranty that the product will be suitable for the use intended by the customer.

### Health & Safety

For further Health and Safety information please see the relevant Material Safety Datasheets or contact Flexitallic Ltd.