

PRODUCT DATASHEET

FLEXICARB® RGS 1



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

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.



Disclaimer
Please note, failure to select the correct materials or products we supply ("the Products") may result in damage to plant, equipment or property. In some instances, it may cause death or personal injury. We are not designers and do not give advice about design related matters concerning the Products. We can help and assist with the technical specifications for the Products. In specific applications, particularly where critical conditions exist, we will try to assist you within the limitations of the services that we offer. All information supplied by us is intended as technical co-operation outlining the specifications of the different Products which we supply. To the extent permitted in law, no warranty is given in respect of any information supplied by us. The customer must satisfy themselves as to the suitability of the Products for their intended application and use. The correct fitting of Products is the responsibility of the customer. Your statutory rights remain unaffected. Save in respect of death, personal injury or fraud, our entire liability to you, however arising from the supply of Products shall be limited to the £10M indemnity amount provided by our insurers.

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 ⁻³
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