

Technical Data Sheet

MATERIAL PROPERTIES*: **RGS1**

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

COLOUR: Silver / Grey

Materials: Facing material: 98% pure graphite foil. Reinforcement: 13 micron pure nickel foil.
Bond Type: Adhesive.

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 oxidising 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 our 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.

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

AVAILABILITY: Sheet size : 1.0m x 1.0m; 1.5 m x 1.5 m
Thickness range : 0.4 mm to 3.0 mm

Notes: * This is a general guide and should not be the sole means of selecting or rejecting this material. This data sheet covers basic information, for more comprehensive information, please contact us.

Asbestos Free



Certificate Number: 14352
ISO 9001



Care should be taken in selecting the most suitable quality for each application. Advice is available, but final responsibility remains with the customer.

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