

## Technical Data Sheet

**MATERIAL PROPERTIES\*:** **RGS3**

**DESCRIPTION:** RGS 3 is a high purity graphite laminate reinforced with a tanged stainless steel core.

**COLOUR:** Silver / Grey

**Materials:** Facing material: 98% pure graphite foil.  
 Reinforcement: 0.1mm thick tanged stainless steel UNS S31600.  
 Bond Type: Mechanical.

**SERVICE:** FLEXICARB® RGS 3 is recommended for applications involving high sealing stresses and where high blowout resistance is required. The inclusion of the steel reinforced layer gives rise to a robust sheet. RGS 3 can be used to seal a wide range of media at moderate combinations of temperature and pressure. The product is not recommended for sealing against strong chemical oxidising agents.



**Maximum recommended temperature:**

Thermal oxidising media 370°C

Inert or reducing media 700°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.

Approvals: BAM Oxygen

**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

**AVAILABILITY:**

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

Thickness range : 1.0mm to 3.0mm

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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