

Technical Data Sheet

MATERIAL PROPERTIES*: RGS4

DESCRIPTION:

RGS 4 is a high purity graphite laminate reinforced with a stainless steel core.

COLOUR:

Silver / Grey

Materials:

Facing material: 98% pure graphite foil.

Reinforcement: 0.05mm thick tanged stainless steel UNS S31600

Bond Type: Adhesive.



SERVICE:

FLEXICARB® RGS 4 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 or 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.

TYPICAL PHYSICAL PROPERTIES:

| | |
|--------------------------------|----------------------|
| Thickness | 1.5mm |
| Density | 1.2gcm ⁻³ |
| ASTM F36A Compressibility | 40% |
| ASTM F36A Recovery | 20% |
| BS 7531 Residual Stress | 32MPa |
| ASTM F152 Tensile Strength | 20MPa |
| 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 : 0.75mm 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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