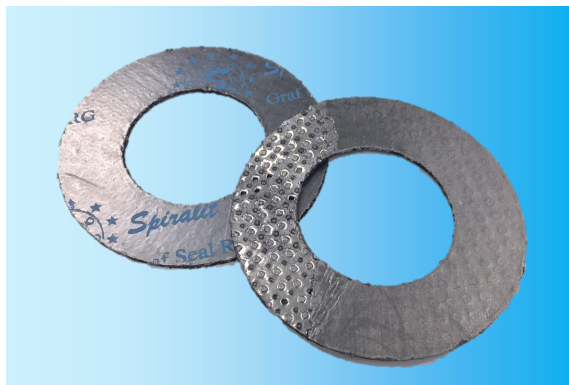


## Product information

Nr. 167 Rev 2/2017

# GRAFSEAL RGS



### Constant Tightening:

$\sigma_u$	(MPa)	30
$\sigma_o$	(MPa)	250
$\sigma_b$	(MPa)	-
	a 150°C	-
	a 200°C	-
	a 300°C	160

		1.5mm	2.0mm	3.0mm
$\gamma$	(MPa)	30	30	30
$m$		2.0	2.0	2.0

### Chemical Composition:

Element	Referring to	Value	UM
Carbon Content	ASTM C571	≥ 99	%
Ashes Content	ASTM C571	≤ 1	%
Chloride Content	ASTM F1277	< 50	p.p.m.
Fluoride Content	ASTM F1277	≤ 50	p.p.m.

### Supply data:

COLOR: Black

STANDARD THICKNESS: 1,0; 1,5; 2,0; 3,0 (other on request)

### Description:

Laminated expanded flexible graphite sheet, reinforced with perforated tanged stainless steel insert with 0.10 mm thickness, for fabrication of industrial gaskets exhibiting excellent creep strength, chemical stability, and high tightness effectiveness.

### Application:

Ideal for a wide range of applications, including high temperature and pressure, mechanical and thermal cycles and shocks. Suitable to confine steam, hydrocarbons and most chemicals.

### Working condition:

Working pressure	150	bar
Temperature:		
Min temperature	-240	°C
Working in continuous with oxidizing atmosphere	400	°C
Working in continuous with inert atmosphere	800	°C

*Is not advised the use in the maximum temperature and at the same time with the maximum pressure.*

### Technical data:

Properties	Referring to	Value	UM
Density		1 - 1.1	g/cm <sup>3</sup>
Compressibility	ASTM F36	35	%
Recovery	ASTM F36	15	%
Stress Retention after 16h, 300°C at 50 bar	DIN 52913	49	N/mm <sup>2</sup>
Seleability	DIN 3535/6	≤ 0.05	mg/(s·m)

### Homologated by:

- *DIN 28091-4*: technical delivery conditions for graphite-based gasket sheets: GR-O-M-Cr
- *Italian Ministry of Defense*: approval for use with steam and high temp. media, 550°C, 25 bar
- *Tecnimont*: approval for use with oils and acids up to 450°C, 40 bar - class 96 (spec. TM 539.1/95).
- *ENI*: compliance with spec. 9302 (Oct.93), class 28, for use up to 450°C.
- *Italian Railways*: approval for use with diesel engines up to 650°C, 100 bar (spec. 306345)
- *French Railways*: approval for use up to 650°C (spec.10 6000 387)
- *Ecole Polytechnique of Montreal*: certification as "fire-safe gasket material" according to FITT test .

Since all properties, specifications and application parameters shown throughout this catalogue are approximate and may be mutually influenced, your specific application should not be undertaken without independent study and evaluation for suitability. All technical data and advice given is based on experiences Spiralit has made so far. Failure to select proper sealing products can result in damage and/or personal injury. Properties, specifications and application parameters are subject to change without notice. Spiralit does not undertake any liability of any kind whatsoever.

SPIRALIT SRL – Via Molise, 30 – 20085 Locate di Triulzi, Milano – Tel. +39 904817.1 – Fax +39 904817.220 E-mail: [spiralit@spiralit.it](mailto:spiralit@spiralit.it) – <http://www.spiralit.it>