



# API 622 PACKING GR8622

## Composition

Pure expanded mineral graphite  
Reinforcement in nickel-alloy and impregnation with special graphite-based compounds.


## Characteristics

The graphite seal ring gasket for valves GR8622 is characterized by the use of pure expanded mineral graphite, which ensures high sealing performance. Thanks to its Low Emission API std 622 3rd Edition certification, this packing is particularly suitable for applications where low gas emissions into the environment are required. The GR8622 is able to maintain its elastic properties and sealing performance over time, without the need for re-tightening. The yarn used offers very low weight loss during high-temperature operation and a low coefficient of friction, making it suitable for applications that require high slipperiness. In addition, the GR8622 gasket is able to withstand high pressures and extreme temperatures, ensuring reliable and long-lasting sealing.

## Applications

GR8622 is a specially designed packing for industrial valves used in low emissions service, also suitable for those with H.P./H.T. service. Made of pure expanded mineral graphite, this graphite packing ring for valve sealing is certified Low Emission API std 622 3rd Edition and maintains its elastic properties and sealing performance over time without the need for re-tightening. Additionally, the yarn provides a very low weight loss at high temperatures and offers a low coefficient of friction, ensuring high performance and reliability in industrial use.

## Tech Data

	P bar	lbf/in2	Vm/S	f/pm	pH	T°C	T°F
	500	7250	2	400	0 ÷ 14	-200 ÷ 450 / 650	-330 ÷ 840 / 1200

- Never use the product to the maximum temperature and pressure associated. Consult the manufacturer for further information
- The peak temperature can be sustained for short exposures
- With weakly oxidizing agents and hot air the temperature must be limited to 450 ° C
- With steam and non-oxidizing fluids the temperature must be limited to 650 ° C
- Graphite and carbon cannot be used with oxidizing fluids



## API 622 Packing GR8622

The Carrara graphite gland packing product range includes items made with all available graphite yarns, which, according to ASTM F2191 classification, are Type I—Continuous yarn, Type II—Staple yarn, and Type III—Flexible yarn. All graphite gland packings are protected with passive or active corrosion inhibitors (Grade A—Treated with corrosion inhibitor), although untreated gland packings (Grade B—No corrosion inhibitor) are available on demand. The performer and premium grade product ranges include Class 2 items, while the Industrial grade product range offers Class 1 products. Carrara graphite gland packings are specialized for each application, and a proper selection of the item allows for maximizing the sealing performance while reducing the component management costs.



The information in this publication, as well as any additional information provided to users, is based on experience and is shared to the best of our current knowledge. However, due to numerous factors beyond our knowledge and control that may affect the use of these products, no warranties are provided or implied regarding this information. The operating limits presented in this publication do not imply that these values can be applied simultaneously. Do not use the product at the maximum temperature and pressure values simultaneously. The maximum temperature is suitable only for short-term exposure under specific conditions. Specifications are subject to change without prior notice. The picture in the DS may not accurately depict the exact color and/or markings of the product.

 **CARRARA**  
GLOBAL SEALING SOLUTIONS

**Carrara S.p.A.**,  
Via Provinciale 1/E - 25030 Adro - BS - Italia  
tel. +39 030 7451121 / fax +39 030 7451130  
[www.carrara.it](http://www.carrara.it) - [info@carrara.it](mailto:info@carrara.it)



# API 622 PACKING GR8622

sezione mm	sezione inch	kg/box	lbs/box	mt/box	ft/box	mt/kg	ft/lbs
3	1/8"	1	2.2	58.8	192.9	58.8	87.6
4	-	1	2.2	37.0	121.4	37.0	55.1
5	3/16"	1	2.2	22.2	72.8	22.2	33.1
6	-	2.5	5.5	38.5	126.3	15.4	22.9
6.5	1/4"	2.5	5.5	31.3	102.7	12.5	18.7
8	5/16"	2.5	5.5	21.7	71.2	8.7	12.9
9.5	3/8"	2.5	5.5	18.5	60.7	7.4	11.0
10	-	2.5	5.5	16.7	54.8	6.7	10.0
11	7/16"	2.5	5.5	13.9	45.6	5.6	8.3
12	-	2.5	5.5	11.6	38.1	4.6	6.9
12.7	1/2"	2.5	5.5	10.4	34.1	4.2	6.2
14	9/16"	5	11	17.2	56.4	3.4	5.1
16	5/8"	5	11	13.5	44.3	2.7	4.0
17.5	-	5	11	12.5	41.0	2.5	3.7
18	11/16"	5	11	11.1	36.4	2.2	3.3
19	3/4"	5	11	10.0	32.8	2.0	3.0
22	7/8"	5	11	7.5	24.6	1.5	2.2
25.5	1"	5	11	5.8	19.0	1.2	1.7

- The weight per meter and the packaging's weight may have a tolerance of +/- 10%. Other sizes and packaging are available on demand.



The information in this publication, as well as any additional information provided to users, is based on experience and is shared to the best of our current knowledge. However, due to numerous factors beyond our knowledge and control that may affect the use of these products, no warranties are provided or implied regarding this information. The operating limits presented in this publication do not imply that these values can be applied simultaneously. Do not use the product at the maximum temperature and pressure values simultaneously. The maximum temperature is suitable only for short-term exposure under specific conditions. Specifications are subject to change without prior notice. The picture in the DS may not accurately depict the exact color and/or markings of the product.

**CARRARA**  
GLOBAL SEALING SOLUTIONS

**Carrara S.p.A.**,  
Via Provinciale 1/E - 25030 Adro - BS - Italia  
tel. +39 030 7451121 / fax +39 030 7451130  
[www.carrara.it](http://www.carrara.it) - [info@carrara.it](mailto:info@carrara.it)