



# GRAPHITE PACKING GR48

## Composition

High carbon content flexible graphite yarns.

## Characteristics

GR48 is a high-quality expanded mineral graphite packing made of high carbon content expanded graphite yarns. Its ability to withstand extreme temperatures and high pressures, combined with low thermal conductivity, make it an ideal choice for many industrial applications, where ease of cutting and installation is combined with extraordinary versatility. Thanks to its high-quality construction and great reliability, the expanded mineral graphite packing GR48 is a winning choice for those looking for a versatile and high-performance product for their industrial needs. Additionally, GR48 packing is also available in the reinforced version GR48R.

## Applications

The flexible mineral graphite packing GR48 is an ideal solution for sealing industrial valves of all types, thanks to its extreme flexibility and versatility. Due to the high carbon content in the expanded graphite yarns, this packing is able to resist multiple industrial fluids and gases, with the exception of strong oxidizers. It can operate at a maximum pressure of 100 bar without the use of anti-extrusion rings. In the case of dynamic seals, however, it is recommended to use it with the help of anti-extrusion rings to ensure even better performance and extend its lifespan.

## Tech Data

|  | P bar | lbf/in <sup>2</sup> | Vm/S | f/pm | pH     | T °C             | T °F              |
|--|-------|---------------------|------|------|--------|------------------|-------------------|
|  | 300   | 4500                | 1    | 200  | 0 ÷ 14 | -200 ÷ 450 / 650 | -330 ÷ 840 / 1200 |
|  | 100   | 1500                | 2    | 400  |        |                  |                   |
|  | 25    | 375                 | 25   | 5000 |        |                  |                   |

- Never use the product to the maximum temperature and pressure associated. Consult the manufacturer for further information
- 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
- The packing shall be used with wiper anti-extrusion rings with dynamic applications and with those in valves over 100 bar



## Graphite Packing GR48

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.



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# GRAPHITE PACKING GR48

| sezione mm | sezione inch | kg/box | lbs/box | mt/box | ft/box | mt/kg | ft/lbs |
|------------|--------------|--------|---------|--------|--------|-------|--------|
| 3          | 1/8"         | 1      | 2.2     | 100.0  | 328.1  | 100.0 | 149.0  |
| 4          | -            | 1      | 2.2     | 47.4   | 155.5  | 47.4  | 70.6   |
| 5          | 3/16"        | 1      | 2.2     | 29.4   | 96.5   | 29.4  | 43.8   |
| 6          | -            | 2.5    | 5.5     | 52.1   | 170.9  | 20.8  | 31.0   |
| 6.5        | 1/4"         | 2.5    | 5.5     | 50.0   | 164.0  | 20.0  | 29.8   |
| 8          | 5/16"        | 2.5    | 5.5     | 29.8   | 97.8   | 11.9  | 17.8   |
| 9.5        | 3/8"         | 2.5    | 5.5     | 21.3   | 69.9   | 8.5   | 12.7   |
| 10         | -            | 2.5    | 5.5     | 19.2   | 63.0   | 7.7   | 11.4   |
| 11         | 7/16"        | 2.5    | 5.5     | 15.9   | 52.2   | 6.4   | 9.5    |
| 12         | -            | 2.5    | 5.5     | 13.2   | 43.3   | 5.3   | 7.9    |
| 12.7       | 1/2"         | 2.5    | 5.5     | 11.9   | 39.0   | 4.8   | 7.1    |
| 14         | 9/16"        | 5      | 11      | 20.0   | 65.6   | 4.0   | 6.0    |
| 16         | 5/8"         | 5      | 11      | 14.7   | 48.2   | 2.9   | 4.4    |
| 17.5       | -            | 5      | 11      | 13.3   | 43.6   | 2.7   | 4.0    |
| 18         | 11/16"       | 5      | 11      | 11.9   | 39.0   | 2.4   | 3.5    |
| 19         | 3/4"         | 5      | 11      | 10.6   | 34.8   | 2.1   | 3.2    |
| 22         | 7/8"         | 5      | 11      | 7.9    | 25.9   | 1.6   | 2.4    |
| 25.5       | 1"           | 5      | 11      | 6.2    | 20.3   | 1.2   | 1.8    |

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



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**CARRARA**  
GLOBAL SEALING SOLUTIONS

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