



GRAPHITE PACKING GR8000

Composition

Carbon yarns
Graphite Powder

Characteristics

The graphite packing GR8000, thanks to its composition with continuous PAN graphite fiber yarn, offers a winning combination of mechanical strength and sealing properties. Thanks to this structure, the GR8000 packing is able to ensure excellent sealing on valves and pumps at high pressures, maintaining a high elastic recovery that does not undergo alterations over time. The yarn in graphite with PAN continuous carbon fibers, present in the GR8000 packing, also provides greater resistance to extrusion, wear, and mechanical damage. Thanks to its versatility, the GR8000 packing can be used in multiple industrial applications, both static and dynamic, with non-oxidizing fluids and compatible with graphite.

Applications

The graphite packing GR8000 is suitable for a wide range of industrial applications, primarily designed for high temperature and pressure static seals, but can also be used in many dynamic applications. The GR8000 packing can be used with all industrial fluids and gases, except for strongly oxidizing ones. Additionally, for applications requiring greater mechanical strength, a reinforced version GR8000R with Nickel-Alloy metallic reinforcement is available. The graphite packing GR8000 provides high reliability thanks to its high elastic recovery, which does not deteriorate over time, due to the continuous PAN graphite fibers. Its extreme versatility, ease of cutting and installation make it an ideal solution for various sealing needs in the industrial field.

Tech Data

| | P bar | lbf/in2 | Vm/S | f/pm | pH | T °C | T °F |
|--|-------|---------|------|------|--------|------------------|-------------------|
| | 300 | 4500 | 1 | 200 | 0 ÷ 14 | -100 ÷ 450 / 650 | -150 ÷ 840 / 1200 |
| | 20 | 300 | 2 | 400 | | | |
| | 20 | 300 | 15 | 3000 | | | |

- 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



Graphite Packing GR8000

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 - info@carrara.it



GRAPHITE PACKING GR8000

| 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 | 50.0 | 164.0 | 50.0 | 74.5 |
| 5 | 3/16" | 1 | 2.2 | 25.0 | 82.0 | 25.0 | 37.2 |
| 6 | - | 2.5 | 5.5 | 50.0 | 164.0 | 20.0 | 29.8 |
| 6.5 | 1/4" | 2.5 | 5.5 | 41.7 | 136.8 | 16.7 | 24.8 |
| 8 | 5/16" | 2.5 | 5.5 | 30.1 | 98.8 | 12 | 17.9 |
| 9.5 | 3/8" | 2.5 | 5.5 | 20.8 | 68.2 | 8.3 | 12.4 |
| 10 | - | 2.5 | 5.5 | 19.2 | 63.0 | 7.7 | 11.4 |
| 11 | 7/16" | 2.5 | 5.5 | 15.6 | 51.2 | 6.3 | 9.3 |
| 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 | 13.2 | 43.3 | 2.6 | 3.9 |
| 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 | 8.6 | 28.2 | 1.7 | 2.6 |
| 25.5 | 1" | 5 | 11 | 6.7 | 22.0 | 1.3 | 2.0 |

- 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 - info@carrara.it