GRAPHITE PACKING GR48R

Composition

Pure high carbon content expanded graphite yarns reinforced with Inconel™ wire.

Characteristics

The expanded graphite packing GR48R is a versatile and high-performing solution for many industrial applications. Made with expanded graphite yarns with high carbon content and reinforced with Inconel™, it can withstand high temperatures and pressures, as well as multiple industrial fluids and gases, except for highly oxidizing ones. Thanks to its easy cutting and installation, this universal packing is an ideal choice for sealing valves of all types. Additionally, the GR48R packing is also available in the non-reinforced version GR48, which still offers excellent performance in many industrial applications. With GR48R and GR48, you can ensure maximum safety and reliability for your industrial seals.

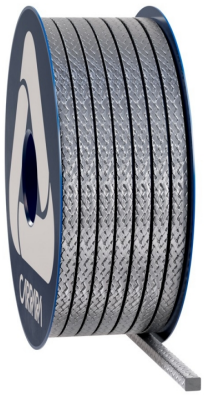
Applications

The expanded graphite braid GR48R is specifically designed to ensure perfect sealing on industrial valves of all types, with the ability to use various fluids and gases, excluding only highly oxidizing ones. Thanks to the high carbon content present in the expanded graphite yarns and the nickel-alloy metal reinforcement, this braid guarantees greater resistance and durability over time compared to the non-reinforced version GR48. However, to achieve optimal performance in the case of dynamic seals, it is recommended to use GR48R with the help of anti-extrusion rings. It is important to note that the maximum pressure for use in valves should not exceed 100 bar in the absence of anti-extrusion rings. In any case, the flexible graphite braid GR48R represents an ideal solution for industrial needs that require reliability, resistance, and versatility.

Tech Data

	P bar	lbf/in2	Vm/S	f/pm	pH	T°C	T°F
	300	4500	1	200	0 ÷ 14	-200 ÷ 450 / 650	-330 ÷ 840 / 1200

- Never use the product at its maximum rated temperature and pressure simultaneously. Consult the manufacturer for further information.
- The peak temperature can be sustained only for short exposure periods.
- When used with weakly oxidizing agents or hot air, the temperature shall not exceed **450 °C**.
- When used with steam or non-oxidizing fluids, the temperature shall not exceed **650 °C**.
- Flexible graphite and carbon yarn shall not be used with oxidizing fluids.
- When used in a stuffing box at pressures above 100 bar, the product must be used with anti-extrusion rings or in its reinforced version.



Graphite Packing GR48R

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.

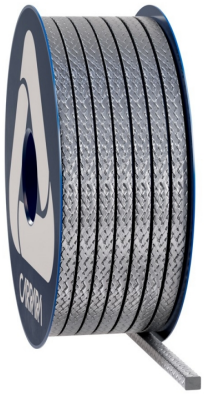
The information provided in this publication, as well as that supplied to users in other forms, is based on our experience and communicated according to the best knowledge available. However, since numerous factors beyond our knowledge and control may influence the use of the products, no warranty, explicit or implicit, is given regarding such content. The operating limits indicated do not constitute confirmation that these values can be applied simultaneously. Avoid using the product at the maximum temperature and pressure limits. The maximum temperature is sustainable only for short periods under specific conditions. Specifications may be changed without notice. The images in the DS may not exactly represent the product, its color and/or marking.

CARRARA GLOBAL SEALING SOLUTIONS

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GRAPHITE PACKING GR48R

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 weight may have a tolerance of ±10%. Other sizes and packaging options are available on request.

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