EXPANDED GRAPHITE PACKING GR80SGR

Composition

- Expanded mineral graphite
- Special reinforcement nickel-alloy
- Impregnation with graphite-based compound and special components

Characteristics

GR80SGR is composed by expanded graphite strands with a special reinforcement that increases its strength and durability. This expanded graphite packing offers superior performance at high temperatures and very low weight loss during operation, ensuring reliable sealing over time. GR80SGR complies with EN14772 - section 6.7 requirements, ensuring maximum safety in high-pressure applications. With its low coefficient of friction, this expanded graphite packing ensures effective sealing even in extreme conditions. In addition, the Low Emission ISO 15848 certification makes GR80SGR the ideal solution for applications that require low environmental impact and high energy efficiency. With its reliability and ability to maintain elastic and sealing properties over time, GR80SGR minimizes the need for maintenance and saves long-term time and costs.

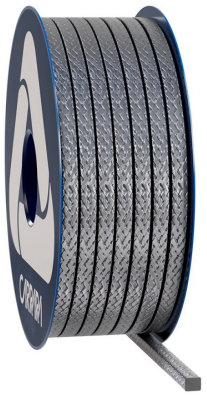
Applications

The GR80SGR packing is specially designed for low emission industrial valves and those operating under high pressure and temperature conditions. Thanks to its excellent sealing properties, this expanded graphite packing represents the ideal choice for applications that require a high level of reliability and safety, ensuring resistance to reciprocal dynamic stresses, such as those typical of valve opening and closing services. This expanded graphite packing offers maximum flexibility of use, adapting to different application needs and ensuring high performance even in extreme conditions.

Tech Data

	P bar	lbf/in2	Vm/S	f/pm	pH	T°C	T°F
	500	7500	1	200	0 ÷ 14	-200 ÷ 450 / 650	-330 ÷ 840 / 1200
	100	1500	1	200			

- 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.



Expanded Graphite Packing GR80SGR

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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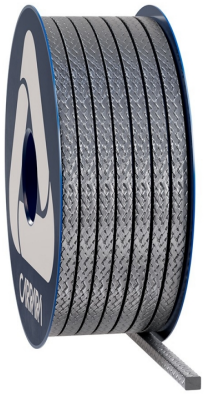
EXPANDED GRAPHITE PACKING GR80SGR

sezione mm	sezione inch	kg/box	lbs/box	mt/box	ft/box	mt/kg	ft/lbs
3	1/8"	1	2.2	50.0	164.0	50.0	74.5
4	-	1	2.2	38.5	126.3	38.5	57.3
5	3/16"	1	2.2	22.7	74.5	22.7	33.8
6	-	2.5	5.5	41.7	136.8	16.7	24.8
6.5	1/4"	2.5	5.5	40.3	132.2	16.1	24.0
8	5/16"	2.5	5.5	26.3	86.3	10.5	15.7
9.5	3/8"	2.5	5.5	21.2	69.6	8.5	12.6
10	-	2.5	5.5	16.1	52.8	6.5	9.6
11	7/16"	2.5	5.5	15.9	52.2	6.4	9.5
12	-	2.5	5.5	11.9	39.0	4.8	7.1
12.7	1/2"	2.5	5.5	11.4	37.4	4.5	6.8
14	9/16"	5	11	19.6	64.3	3.9	5.8
16	5/8"	5	11	14.3	46.9	2.9	4.3
17.5	-	5	11	13.3	43.6	2.7	4.0
18	11/16"	5	11	11.8	38.7	2.4	3.5
19	3/4"	5	11	10.7	35.1	2.1	3.2
22	7/8"	5	11	7.8	25.6	1.6	2.3
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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