



# 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	2	300			

- 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



## 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 in this publication and otherwise provided to users is based on experience and is provided to the best of our current knowledge. Due to many factors which are beyond our knowledge and control affecting the use of the products, no warranties are given or are to be held implied with respect to such information. The operating limits shown in this publication do not constitute a statement that these values can be applied simultaneously. Do not use the product at the associated maximum temperature and pressure values. The maximum temperature can be sustained for short exposures in particular conditions. Specifications are subject to change without notice.

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size mm	size inch	kg/box	lbs/box	mt/box	ft/box	mt/kg	ft/lbs
3	1/8	1	2,2	72	238	72	107,9
4	-	1	2,2	40	132	40	59,9
5	1/5	1	2,2	26	86	26	39
6	-	2,5	5,5	45	149	18	27
6,5	1/4	2,5	5,5	38	125	15,2	22,8
8	1/3	2,5	5,5	25	83	10	15
9,5	3/8	2,5	5,5	18	59	7,2	10,8
10	-	2,5	5,5	16	53	6,4	9,6
11	4/9	2,5	5,5	13	43	5,2	7,8
12	-	2,5	5,5	11	36	4,4	6,6
12,7	1/2	2,5	5,5	10	33	4	6
14	4/7	5	11	16	53	3,2	4,8
16	5/8	5	11	13	43	2,6	3,9
17,5	2/3	5	11	11	36	2,2	3,3
18	-	5	11	10	33	2	3
19	3/4	5	11	9	30	1,8	2,7
22	7/8	5	11	7	23	1,4	2,1
25,5	1	5	11	5	17	1	1,5



- 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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