



# GRAPHITE KNITTED ADHESIVE TAPE GR48PA

## Composition

Adhesive knitted tape made of expanded mineral graphite yarns


## Characteristics

The GR48PA is a knitted tape made from expanded mineral graphite yarn, processed with a special technique, and then reshaped to obtain a tape on which a double-sided adhesive strip is applied. It is a product available in different widths, typically those from the inch series ranging from 1/4" to 1 1/2", which is flexible and easily conformable, suitable for being applied to the sealing surfaces of flanges as an aid to the main seal or used alone for low-pressure applications.

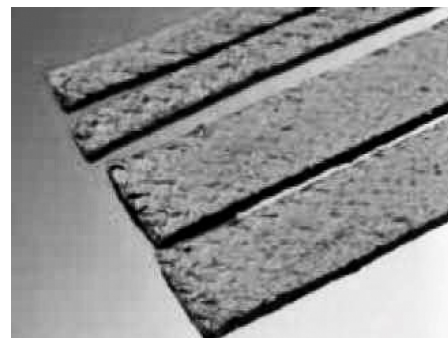
## Applications

Applicable for sealing reactor flanges, tank covers, manholes, handholes, and heat exchangers. Expanded graphite is chemically inert to a wide range of aggressive chemicals, such as acids, bases, and solvents, with the exception of oxidizing fluids. This property makes it suitable for use in corrosive environments, typical of the chemical, petrochemical, and gas industries. Expanded graphite can withstand very high temperatures, up to around 650°C in an inert atmosphere or with steam, and 450°C in air, without losing its mechanical properties. This resistance makes expanded graphite perfect for applications in high-temperature environments.

## Tech Data

	P bar	lbf/in2	Vm/S	f/pm	pH	T °C	T °F
	40	600			0 ÷ 14	-200 ÷ 450 / 650	-330 ÷ 840 / 1200

- 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 Knitted Adhesive Tape GR48PA

Expanded graphite is commonly used for sealing industrial components such as flanges, valves, heat exchangers, chemical reactors, tanks, and equipment that operate in challenging conditions (high temperatures, high pressure, and aggressive chemical environments). It is particularly useful in the energy, chemical, petrochemical, oil, and gas sectors. The expanded structure of graphite gives the material a great ability to compress and adapt to irregular or deformable surfaces. This property is essential to ensure a tight seal, even under variable pressure cycles.



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 S.p.A.**,  
Via Provinciale 1/E - 25030 Adro - BS - Italia  
tel. +39 030 7451121 / fax +39 030 7451130  
[www.carrara.it](http://www.carrara.it) - [info@carrara.it](mailto:info@carrara.it)