



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.

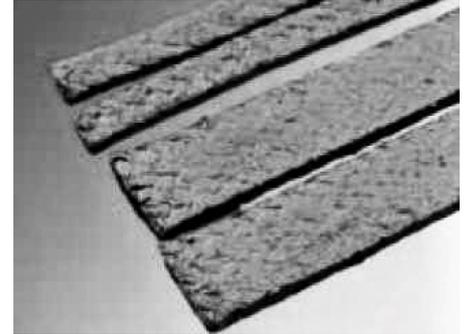
Applications

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 at its maximum rated temperature and pressure. 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.
- Flexible graphite and carbon yarns shall not be used with oxidizing fluids.
- The packing shall be used with wiper anti-extrusion rings in dynamic applications and in valves operating above 100 bar



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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.



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