PLANIGRAPH™ NG CORRUGATED GRAPHITE TAPE

Composition

High-purity Corrugated Expanded Mineral Graphite Tape Industrial Grade

Characteristics

The corrugated expanded mineral graphite tape Planigraph™ NG meets the requirements of the latest update of the EU Directive 2011/65/EC (RoHS). This type of gasket therefore ensures reliable and long-lasting sealing, making it an ideal option for many applications, from the simplest to the most demanding.

Applications

Corrugated graphite tape is a useful aid in industrial maintenance of valves and flanges. Planigraph™ NG can be easily cut and shaped to fit the specific requirements of the application. Expanded mineral graphite is known for its chemical and thermal resistance, making it suitable for applications involving almost all fluids except oxidizing agents.

Tech Data

Planigraph™ NG Corrugated Tape

Graphite density	gr/cm3	1.0
Carbon Content	%	≥ 98.0
Ash Content	%	< 2.0
Sulphur Content	ppm	≤ 1000
Halogen Content	ppm	≤ 200
Tensile Strenght	MPa	≥ 4.0
Temperature max with steam	°C	550
Temperature max with weak oxidants	°C	450
Temperature min cryo	°C	-196

Planigraph™ NG Corrugated Tape — Sizes

Code	Width (mm)	Thickness (mm)	Spool (mt)
N_NG_006.00	6.0	0.6	25
N_NG_008.00	8.0	0.6	25
N_NG_010.00	10.0	0.6	25
N_NG_012.00	12.0	0.6	25
N_NG_012.70	12.7	0.6	25
N_NG_015.00	15.0	0.6	25
N_NG_016.00	16.0	0.6	25
N_NG_019.00	19.0	0.6	25
N_NG_020.00	20.0	0.6	25
N_NG_025.00	25.0	0.6	25

- Never use the product at its maximum rated temperature and pressure simultaneously. Consult the manufacturer for further information.
- When used with weakly oxidizing agents or hot air, the temperature shall not exceed **450 °C**.
- Flexible graphite and carbon yarn shall not be used with oxidizing fluids.
- With steam and non-oxidizing fluids, the temperature must be limited to 550°C.

Planigraph™ NG Corrugated Graphite Tape

The Planigraph™ sales program includes the following items Premium grade and Industrial Grade:

- LG without insert
- LGR with single smooth insert
- LGRF with single or multiple tanged inserts
- LGRHDI with multiple smooth inserts

The maximum allowable load on expanded graphite gaskets depends on the type and number of metallic inserts and is closely related to the effective sealing area. Verification requires calculating the ratio [(De–Di)/thk], where **De** and **Di** are the diameters of the area actually compressed between the flanges and **thk** is the gasket thickness. The ratio must be ≥ 4. On WN RF flanges, the gaskets can be used up to class 300 psi.

The Planigraph™ line also includes corrugated graphite tapes for maintenance:

- NG – corrugated tape in expanded mineral graphite
- NGA – adhesive corrugated tape in expanded mineral graphite

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