



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/cm ³	1.0
Carbon Content	%	≥ 98.0
Ash Content	%	< 2.0
Sulphur Content	ppm	≤ 1000
Halogen Content	ppm	≤ 200
Tensile Strength	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 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
- Graphite and carbon cannot be used with oxidizing fluids
- With steam and non-oxidizing fluids, the temperature must be limited to 550°C



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.

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 tapered 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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