



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 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 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.
- Flexible graphite and carbon yarns shall not be used with oxidizing fluids.
- With steam and non-oxidizing fluids, the temperature must be limited to 550°C.



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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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