



EXPANDED GRAPHITE GASKET SHEET
(reinforced with flat nickel insertions)

TEMAGRAPH NI

Technical data:

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| Marking acc. to | DIN 28 091-4 | GR-10-I-1 K-Ni |
| Thickness (mm) | | 0,8 1,0 1,5 2,0 3,0 |
| Max. temperature* (°C) | | from -200 to +500 |
| Max. pressure* (bar) | | 100 |
| Graphite density (g/cm ³) | | 0,7 - 1,0 |
| Ash content** (%) | DIN 51 903 | ≤ 2,0 |
| Chloride content** (ppm) | | ≤ 50 |
| Material of insert | DIN / ASTM | 2.4066 nickel (flat) |
| Thickness of insert (mm) | | 0,013 |
| No. of insert (s) | | 1 or 2 |
| Gas permeability (cm ³ /min) | | <0,85 |
| Specific leakage rate λ (mg/s/m) | | <0,1 |
| Residual stress (N/mm ²) | DIN 52 913, 16h/300°C | ≥ 45 |
| Compressibility (%) | ASTM F 36A – 66 | 40 – 50 |
| Recovery (%) | ASTM F 36A – 66 | 10 – 15 |
| Gaskets factors | DIN 2505 | |
| σ _{VU} (N/mm ²) | | 10 |
| m | DIN factor | 1,3 |
| σ _{VO} (N/mm ²) | | 110 |
| σ _{BO at 300 °C} (N/mm ²) | | 90 |
| m | ASTM factor | 2,5 |
| y (PSI) | ASTM factor | 1000 |

Legend:

- σ_{VU} min. gasket assembly stress
- σ_{VO} max. permissible gasket stress
- σ_{BO at 300 °C} max. permissible gasket stress under service conditions
- * max. values can not be used simultaneously
- ** If required, the material can be supplied in so-called nuclear grade (in that case ash content is <0,15% and chloride content <20ppm)

sheet size: 1,0m x 1,0m , 1,5m x 1,5m
 colour of printing: green printing **TEMAGRAPH NI**

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