



EXPANDED GRAPHITE GASKET SHEET
(reinforced with flat nickel insertions)

TEMAGRAPH NI

Technical data:

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
Density (g/cm ³)		0,7 - 1,0
Ash content** (%)	DIN 51 903	≤ 2,0
Chloride content** (ppm)		≤ 50
Material of insertion	DIN / ASTM	2.4066 nickel (flat)
Thickness of insertion (mm)		0,013
No. of insertion		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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