EXPANDED GRAPHITE GASKET SHEET
(reinforced with flat nickel insertion)

TEMAGRAPH NI

Technical data:		
Marking acc. to	DIN 28 091-4	**GR-10-I K-Ni**
Thickness (mm)		1,0 1,5 2,0 3,0
Max. temperature* (°C)		**from –200 to +450**
Max pressure* (bar)		**120**
Density (g/cm^3)		1,0
Ash content** (%)	DIN 51 903	≤ 2,0
Chloride content** (ppm)		≤ 50
Material of insertion	DIN / ASTM	Nickel 2.4066 (flat)
Thickness of insertion (mm)		0,013
No. of insertion		1
Gas permeability (cm^3/min)		-
Spec. leak rate λ (mg/s/m)		-
Residual stress (N/mm^2)	DIN 52 913, 16h/300°C	≥ 48
Compressibility (%)	ASTM F 36A – 66	40 - 50
Recovery (%)	ASTM F 36A – 66	10 – 13
Gaskets factors	DIN 2505	
σ_{VU} (N/mm^2)		10
m	DIN factor	1,3
σ_{VO} (N/mm^2)		110
$\sigma_{BO\ at\ 300\ C}$ (N/mm^2)		80
m	ASTM factor	2,5
y (PSI)	ASTM factor	1000

Legend:

σ_{VU}	min. gasket assembly stress
σ_{VO}	max permissible gasket stress
$\sigma_{BO\ at\ 300\ C}$	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
colour of pritning: green printing **TEMAGRAPH NI**