



EXPANDED GRAPHITE GASKET SHEET
(reinforced with insertions of tanged SS 316)

TEMAGRAPH TI

Technical data:

Marking acc. to	DIN 28 091-4	GR-10-O-1 M-Cr			
Thickness (mm)		1,0	1,5	2,0	3,0
Max. temperature* (°C)		from -200 to +500			
Max. pressure* (bar)		140			
Density (g/cm ³)		1,0			
Ash content** (%)	DIN 51 903	≤ 2,0			
Chloride content** (ppm)		≤ 50			
Material of insertion	DIN / ASTM	1.4401 / SS 316 (tanged)			
Thickness of insertion (mm)		0,1			
No. of insertion		1 or 2			
Gas permeability (cm ³ /min)		< 0,60	< 0,60	< 0,80	< 1,0
Specific leakage rate λ (mg/s/m)		< 0,06	< 0,06	< 0,08	< 0,1
Residual stress (N/mm ²)	DIN 52 913, 16h/300°C	> 48	> 48	> 48	> 45
Compressibility (%)	ASTM F 36A – 66	30-35		30-40	
Recovery (%)	ASTM F 36A – 66	15 – 20			
Gaskets factors	DIN 2505				
σ _{VU} (N/mm ²)		20			
m	DIN factor	1,3			
σ _{VO} (N/mm ²)		180	160	140	120
σ _{BO at 300 °C} (N/mm ²)		160	140	120	100
m	ASTM factor	3		2,5	
y (PSI)	ASTM factor	9000		4000	

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: blue printing **TEMAGRAPH TI**

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