



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

**TEMAGRAPH FI**

**Technical data:**

Marking acc. to	DIN 28 091-4	GR-10-O-1 K-Cr
Thickness ( mm)		0,75 1,0 1,5 2,0 3,0
Max. temperature* (°C)		<b>from -200 to +500</b>
Max. pressure* (bar)		<b>100</b>
Density (g/cm <sup>3</sup> )		0,7 - 1,0
Ash content** (%)	DIN 51 903	≤ 2,0
Chloride content** (ppm)		≤ 50
Material of insertion	DIN / ASTM	1.4401 / SS 316 (flat)
Thickness of insertion (mm)		0,05
No. of insertion		1 or 2
Gas permeability (cm <sup>3</sup> /min)		<0,60
Specific leakage rate λ ( mg/s/m)		<0,06
Residual stress ( N/mm <sup>2</sup> )	DIN 52 913, 16h/300°C	≥ 45
Compressibility ( %)	ASTM F 36A – 66	40 – 50
Recovery ( %)	ASTM F 36A – 66	10 – 15
<b>Gaskets factors</b>	<b>DIN 2505</b>	
σ <sub>VU</sub> ( N/mm <sup>2</sup> )		10
m	DIN factor	1,3
σ <sub>VO</sub> ( N/mm <sup>2</sup> )		100
σ <sub>BO at 300 °C</sub> ( N/mm <sup>2</sup> )		70
m	ASTM factor	2
y ( PSI)	ASTM factor	900

**Legend:**

- σ<sub>VU</sub> min. gasket assembly stress
- σ<sub>VO</sub> max. permissible gasket stress
- σ<sub>BO at 300 °C</sub> 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: red printing **TEMAGRAPH FI**

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