



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

TEMAGRAPH HP

Description: Temagraph HP is a strong multi layer expanded graphite material with high integrity of excellent quality graphite and 0,05 mm thick SS 316 perforated insertion (s). Wide range of applications such the petrochemical, chemical industry and power stations. Temagraph HP meets all the requirements of environment and hygienic safety.

Technical data:

Marking acc. to	DIN 28 091-4	GR-11-I-3 M-Cr				
Thickness (mm)		1,0	1,5	2,0	3,0	4,0
Max. temperature* (°C)		from -200 to +550				
Max. pressure* (bar)		200				
Density (g/cm ³)		1,1				
Ash content** (%)	DIN 51 903	< 1,0				
Chloride content** (ppm)		< 25				
Sulphur content** (ppm)		< 700				
Material of insertion	DIN / ASTM	1.4401 / SS 316 (tanged)				
Thickness of insertion (mm)		0,05				
No. of insertion (s)		1	2	3	5	7
Temperature		20°C	300°C	400°C		
Q _S MAX (N/mm ²)	EN 13555-gasket width 20mm	>220	>220	>200		
P _{QR} (50MPa)	EN 13555-gasket width 20mm	0,99	0,94	0,92		
Residual stress (N/mm ²)	DIN 52 913, 16h/300°C	> 48				
Compressibility (%)	ASTM F 36A – 66	30-40				
Recovery (%)	ASTM F 36A – 66	4-5				
Gaskets factors	DIN 2505					
m	DIN factor	1,3				
σ _{VU} (N/mm ²)		20				
m	ASTM factor	2,5				
y (PSI)	ASTM factor	3000				

Legend:

- σ_{VU} min. gasket assembly stress
- * 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% , chloride content <20ppm and sulphur content<500ppm)

sheet size: 1,0m x 1,0m , 1,5m x 1,5m
 colour of printing: orange printing **TEMAGRAPH HP**

Temac a.s. 28913 Zvěřinec Czech Republic	www.temac.cz	Page 1 of 1	Approved: 5.4.2017 Valid since: 6.4.2017
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