

TEMAGRAPH HP

for high temperature and pressure parameters

Description:

Temagraph HP is a strong multi layer expanded graphite material with high integrity of excelent 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:

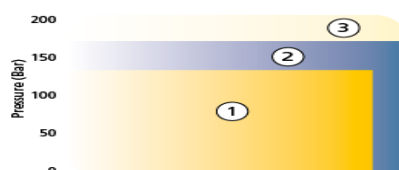
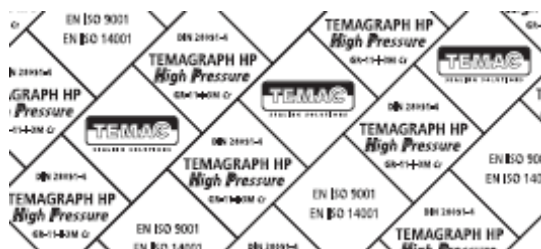
Marking acc. to DIN 28091-4	GR-11-I-3M Cr
Thickness (mm)	1,0 1,5 2,0 3,0 4,0
Number of insertion	1 2 3 5 7
Material (DIN / ASME) / thickness (mm) / type of insertion	1.4404 / SS 316 / 0,05 / tanged
Max. temperature* (°C)	from -200 to +550
Max. pressure* (bar)	200
Density (g/cm ³)	1,1
Ash content (%)	< 1,0
Chloride content (ppm)	< 25
Total sulphure content (ppm)	< 700
Oxidation stability / weight loss at 500°C in air (%)	0,02
Sheet size (mm)	1000 x 1000 (1500 x 1500)**
Printing colour	Orange branding

*max. values can not be used simultaneously

** larger dimension on request

Gasket factors:

Acc. to EN 13555 – thickness 2mm / width of gasket 20mm	
<i>at temperature</i>	20 °C 300 °C 400 °C
P _{QR} at 50 MPa	0,99 0,94 0,92
Q _S MAX (MPa)	>220 >220 >200
Acc. to DIN 28090-2	
ε _{KSW} / Compressibility at 20°C (%)	30 - 40
ε _{KRW} / Recovery at 20°C (%)	4 - 5
ε _{WSW} / Creep compression at 300°C (%)	< 4
ε _{WRW} / Recovery at 300°C (%)	4 - 5
Acc. to ASTM	
factor m	2,5
y (MPa / PSI)	20 / 3000



- 1 - suitable subject to chemical compactability
- 2 - suitable extended area, technical advice is recommended
- 3 - for this area technical consultation is mandatory