

# GASKET SHEETS



## TECHNICAL SPECIFICATION

# Gasket sheet Gambit AF-300

### Material

Gasket sheet **GAMBIT AF-300** is based on Kevlar® aramide fibres, mineral fibres, and fillers bound with NBR, NR and SBR rubber-based binder.

Designation according to DIN 28091-2: **FA-AM13-O**

Kevlar® is a registered trademark of E. I. du Pont de Nemours and Company or its affiliates.

### General properties and applications

Elastic sheet easily following all the curves and irregularities of a flange. Particularly recommended for water and steam installations, in heating and power generation sector, as well as in municipal companies. The sheet is resistant to brake and cooling liquids, thus it is recommended for automotive applications.

### Admissions / Certificates

INIG

### Maximum working conditions

<b>Peak temperature</b>	°C	320
<b>Temperature under continuous operation</b>	°C	280
<b>Temperature under continuous operation with steam</b>	°C	220
<b>Pressure</b>	MPa	10

### Dimensions

<b>Standard thicknesses of sheets /thicknesses above 5.0 mm are produced by gluing/</b>	mm	0,3; 0,5; 0,8 1,0; 1,5; 2,0; 2,5 3,0; 4,0; 5,0; 6,0	± 0,1 ± 10% ± 10%
<b>Standard dimensions of sheets /custom dimensions available within the total range of 1500x3000 mm/</b>	mm	1500x1500	± 10,0

Non-standard thicknesses, graphiting of sheet surfaces, and reinforcement with metallic mesh available upon request.

All information in this catalogue is based on years of experience in manufacture and use of the discussed products. Since sealing performance in the joint is subject to multiple factors such as mounting method, system parameters, and sealed medium, technical parameters specified herein are of informative nature only and cannot be used as grounds for any claims; any special uses of products are subject to consulting with the manufacturer.

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## Physical and chemical properties

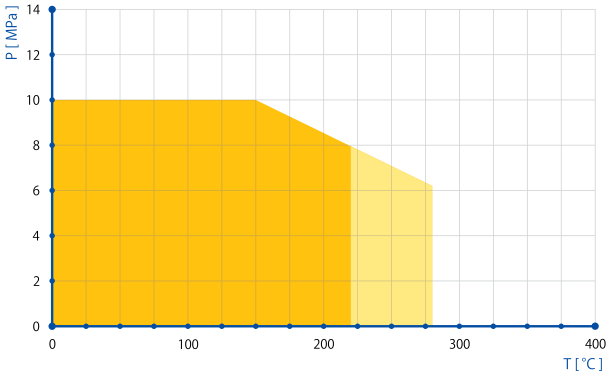
Density	± 5%	g/cm <sup>3</sup>	2,0	DIN 28090-2
Transverse tensile strength	min.	MPa	8	DIN 52910
Compressibility	typical value	%	11	ASTM F36
Elastic recovery	min.	%	50	ASTM F36
Residual stresses 50 MPa/16 h/300 °C/	min.	MPa	22	DIN 52913
Residual stresses 50 MPa/16 h/175 °C/	min.	MPa	28	DIN 52913
Colour	yellow			

(Values as detailed in table refer to 2.0 mm thick gasket sheets)

## Calculation coefficients

Coefficients DT – UC – 90/WO-0/19								
$\sigma_m$			$\sigma_r$			b		
1 mm	2 mm	3 mm	1 mm	2 mm	3 mm	20 °C	200 °C	300 °C
40 MPa	21 MPa	12 MPa	6,4 p <sub>0</sub>	5 p <sub>0</sub>	4,1 p <sub>0</sub>	1,1	1,8	3,0

Coefficients ASME			
Tightness class	Thickness	m	y
L0,1	2 mm	3,2	4 MPa
L1,0	2 mm	1,6	2 MPa



It is not recommended that maximum temperature and pressure are applied simultaneously. Pressure to temperature correlation for sheet thickness 2.0 mm is shown in the diagram.

- There is no requirement for trials.
- Trials should be run if the application involves steam.

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