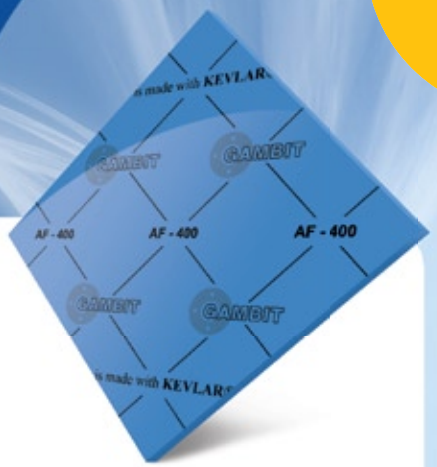
GASKET SHEETS



TECHNICAL SPECIFICATION

Gasket sheet Gambit AF-400

Material

Gasket sheet **GAMBIT AF-400** is based on Kevlar® aramide fibres, mineral fibres, and fillers bound with NBR rubber-based binder.

Designation according to DIN 28091-2: **FA-AM1-O**

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

General properties and applications

High parameter sheet, made of top quality materials. Highly reliable, with broad range of applications. Designated for use in supervised joints, and installations for transmission of natural gas. Resistant to water, steam, kerosene, fuel, oil, and solutions of salts, among others.

Admissions / Certificates

INIG

Maximum working conditions

Peak temperature	**°C**	400
Temperature under continuous operation	**°C**	350
Temperature under continuous operation with steam	**°C**	260
Pressure	**MPa**	12

Dimensions

Standard thicknesses of sheets /thicknesses above 5.0 mm are produced by gluing/	**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%
Standard dimensions of sheets /custom dimensions available within the total range of 1500x3000 mm/	**mm**	1500x1500	± 10,0

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

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Physical and chemical properties

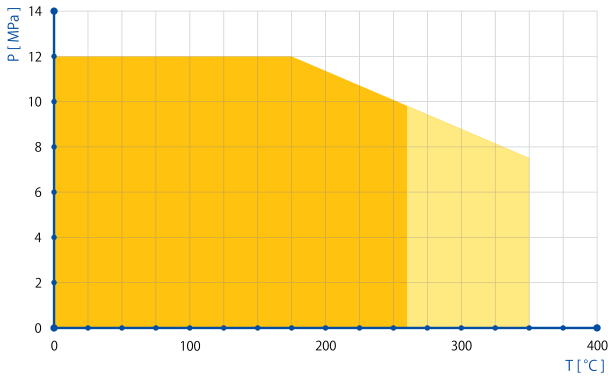
Density	± 5%	**g/cm³**	2,0	DIN 28090-2
Transverse tensile strength	min.	**MPa**	12	DIN 52910
Compressibility	typical value	**%**	10	ASTM F36
Elastic recovery	min.	**%**	55	ASTM F36
Residual stresses 50 MPa/16 h/300 °C/	min.	**MPa**	30	DIN 52913
Residual stresses 50 MPa/16 h/175 °C/	min.	**MPa**	35	DIN 52913
INCREASE IN THICKNESS				
Oil IRM 903 150 °C/5 h	max.	**%**	6	ASTM F146
Model fuel B 20 °C/5 h	max.	**%**	6	ASTM F146
Kerosene 20 °C/24 h	max.	**%**	5	ASTM F146
Colour		**blue**		

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

Calculation coefficients

Coefficients DT – UC – 90/WO-0/19								
σ_m			**σ_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_0	5 p_0	4,1 p_0	1,1	1,8	3,0

Coefficients ASME			
Tightness class	**Thickness**	**m**	**y**
L0,1	2 mm	5,5	2,5 MPa
L1,0	2 mm	2,4	1,0 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.

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.