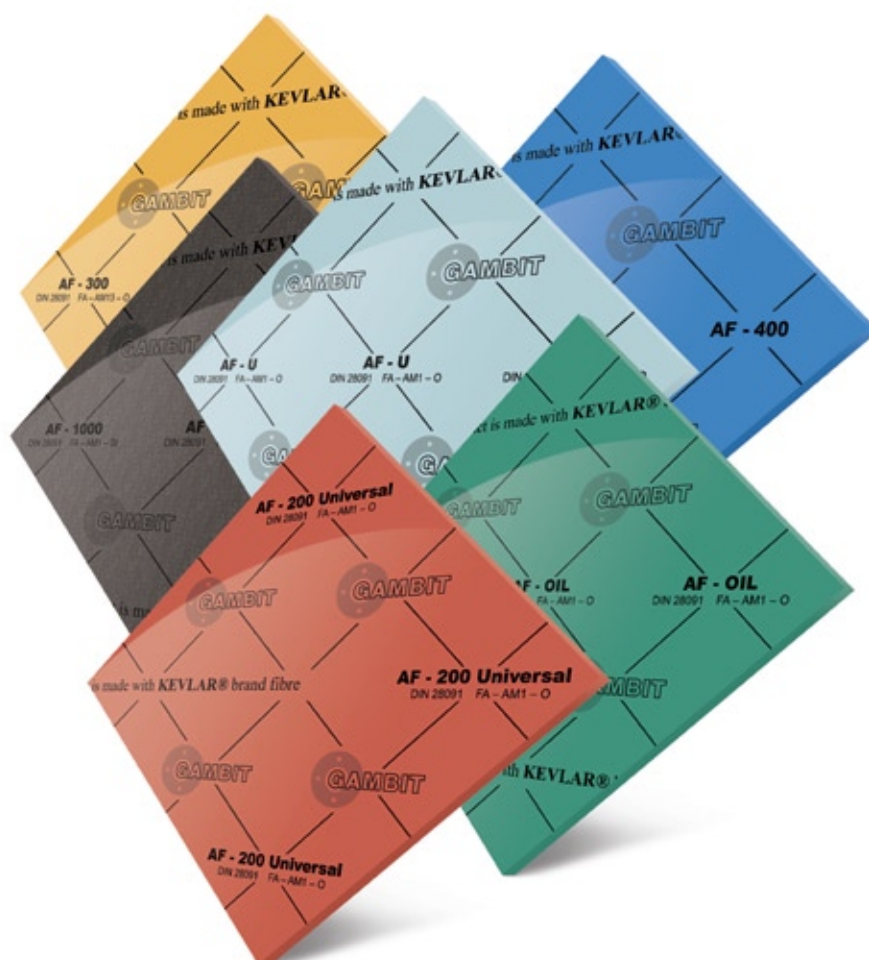


GASKET SHEETS

GASKET SHEETS

GAMBIT AF series asbestos-free gasket sheets are state-of-the-art materials for technical sealing of various media, and for application in a broad range of temperatures and pressures. These products are composites of top quality aramide fibres, specially composed inorganic fibres, and fillers, as well as elastomers selected for specific working conditions. Highly specialised calendaring process of sheets, meeting the requirements of ISO-9001, guarantees high and stable quality.

Technical parameters of GAMBIT AF sheets meet the requirements for the majority of applications. Wherever specific working conditions prevent using GAMBIT AF sheets we offer sheets based on expanded graphite, expanded vermiculite, or PTFE. All these products offer the highest level of quality and reliability.



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GASKET SHEETS

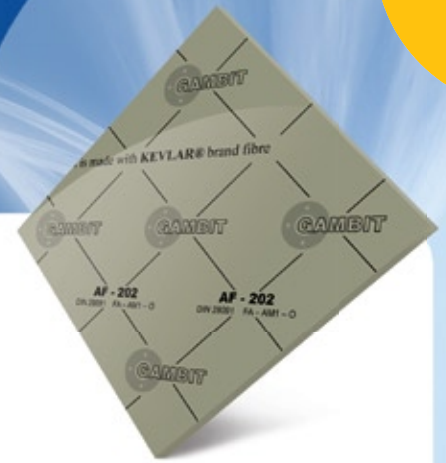
Chemical resistance of gasket sheets GAMBIT

Item	Chemical medium	GAMBIT AF-1000	GAMBIT AF-400	GAMBIT AF-200G	GAMBIT AF-OIL	GAMBIT AF-300	GAMBIT AF-U	GAMBIT AF-200 UNIVERSAL	GAMBIT AF-CD	GAMBIT AF-202	GAMBIT AF-153	GAMBIT SOFT	GAMBIT AF-CHEMATIC	PARO-GAMBIT
1	Acetone	■	▲	▲	▲	▲	▲	▲	■	■	■	■	▲	▲
2	Alcohol, ethyl	●	●	●	●	●	●	●	●	●	●	●	●	●
3	Alcohol, methyl	●	●	●	●	●	●	●	●	●	●	●	●	●
4	Ammonia	▲	●	●	●	▲	●	●	■	■	■	■	●	●
5	Aniline	■	■	■	■	▲	■	■	■	■	■	■	■	■
6	Benzene	▲	●	●	●	■	●	●	■	■	■	■	■	●
7	Gasoline	●	●	●	●	▲	●	●	●	●	▲	▲	▲	●
8	Chloride (wet)	■	▲	▲	▲	■	■	■	■	■	■	■	■	▲
9	Chloride (dry)	■	▲	▲	▲	▲	▲	▲	■	■	■	■	▲	▲
10	Chloroform	▲	▲	▲	▲	■	▲	▲	■	■	■	■	▲	▲
11	Cyclohexanone	▲	▲	▲	▲	■	▲	▲	■	■	■	■	▲	▲
12	Ethane	■	●	●	●	●	●	●	●	●	▲	▲	●	●
13	Phenol	■	▲	■	▲	■	▲	▲	■	■	■	■	▲	▲
14	Freon 11 and 12	■	●	●	●	▲	●	●	■	▲	■	■	●	●
15	Freon 22	■	▲	▲	▲	■	▲	▲	■	■	■	■	▲	▲
16	Ethylene glycol	●	●	●	●	●	●	●	●	●	●	●	●	●
17	Nitric acid 20%	■	▲	■	▲	▲	▲	▲	■	■	■	■	●	▲
18	Nitric acid 40%	■	▲	■	▲	▲	▲	▲	■	■	■	■	▲	▲
19	Phosphoric acid	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	●	▲
20	Formic acid	■	●	●	●	●	●	●	■	▲	■	■	●	●
21	Acetic acid	■	●	●	●	●	●	●	▲	▲	▲	▲	●	●
22	Sulfuric acid 20%	■	●	●	●	●	●	●	■	■	■	■	●	●
23	Fuming sulfuric acid	■	▲	■	▲	▲	▲	▲	■	■	■	■	▲	▲
24	Sulfuric acid 65%	■	▲	▲	■	■	■	■	■	■	■	■	●	▲
25	Hydrochloric acid 20%	■	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	●	▲
26	Hydrochloric acid 36%	■	▲	▲	■	■	■	■	■	■	■	■	●	■
27	Soap	●	●	●	●	●	●	●	●	●	●	●	●	●
28	Potassium permanganate	▲	●	▲	●	▲	●	●	▲	▲	▲	▲	●	●
29	Kerosene	▲	●	●	●	●	●	●	●	▲	▲	▲	▲	●
30	Ethyl acetate	■	▲	▲	▲	▲	▲	▲	■	■	■	■	▲	▲
31	Hydraulic oil Phosphate ester type	▲	●	●	●	▲	●	●	●	▲	▲	▲	●	●
32	Hydraulic oil Phosph. esters	▲	▲	▲	▲	■	▲	▲	■	■	■	■	▲	▲
33	Silicone oil	●	●	●	●	●	●	●	●	●	●	●	●	●
34	Air	●	●	●	●	●	●	●	●	●	●	●	●	●
35	Trichloroethylene	▲	▲	▲	▲	■	▲	▲	■	■	■	■	▲	▲
36	Water	●	●	●	●	●	●	●	●	●	●	●	●	●
37	Sea water	■	●	●	●	●	●	●	●	●	●	●	●	●
38	Ammonium hydroxide	▲	●	●	●	●	●	●	▲	▲	▲	▲	●	●
39	Potassium hydroxide	▲	▲	▲	▲	▲	▲	▲	■	▲	■	■	▲	▲
40	Sodium hydroxide	▲	▲	▲	▲	▲	▲	▲	■	▲	■	■	▲	▲
41	Calcium hydroxide	▲	●	●	●	●	●	●	▲	●	▲	▲	●	●

● Suitable for use. ▲ Can be used only after successful trials under working conditions. ■ Not suitable for use.

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GASKET SHEETS



TECHNICAL SPECIFICATION

Gasket sheet **Gambit AF-202**

Material

Gasket sheet **GAMBIT AF-202** 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

Popular sheet designated for sealing in low temperature and low pressure applications. Particularly recommended for fuel oil installations.

Maximum working conditions

Peak temperature	°C	200
Temperature under continuous operation	°C	180
Temperature under continuous operation with steam	°C	150
Pressure	MPa	4

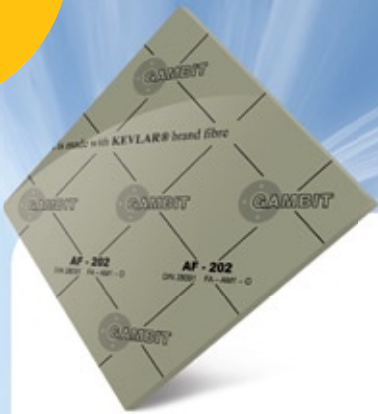
Dimensions

Standard thicknesses of sheets /thicknesses above 4.0 mm are produced by gluing/	mm	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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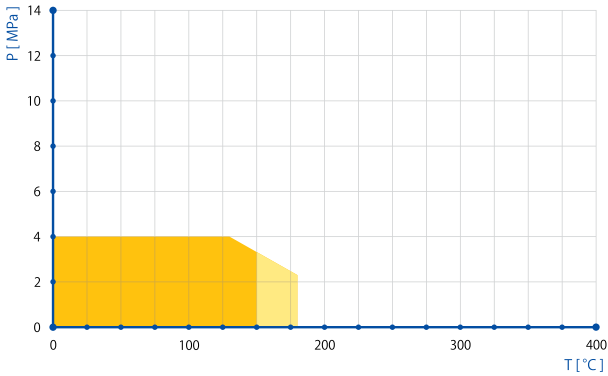
GASKET SHEETS



Physical and chemical properties

Density	± 5%	g/cm³	2,0	DIN 28090-2
Transverse tensile strength	min.	MPa	6	DIN 52910
Compressibility	typical value	%	11	ASTM F36
Elastic recovery	min.	%	50	ASTM F36
Residual stresses 50 MPa/16 h/300 °C/	min.	MPa	20	DIN 52913
Residual stresses 50 MPa/16 h/175 °C/	min.	MPa	25	DIN 52913
INCREASE IN THICKNESS				
Oil IRM 903 150 °C/5 h	max.	%	12	ASTM F146
Colour	khaki			

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



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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