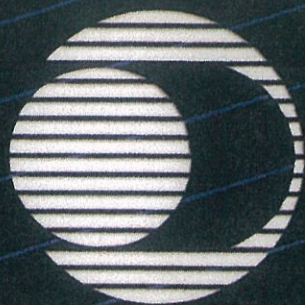


on All Continents



DONIT TESNITI



With Top Quality

TESNIT®

General data:

Standard sheet sizes:

1000 x 1500 mm
1500 x 1500 mm
1000 x 1400 mm (BAR-300)
500 x 1400 mm (BAR-302)

Thicknesses:

0.5 mm, (except BA-R: 0.6 mm),
0.8 mm, 1.0 mm, 1.5 mm, 2.0 mm,
3.0 mm (other thicknesses on request)
0.7 mm, 1.2 mm, 1.4 mm (BAR-300)
1.4 mm, 1.6 mm (BAR-302)

Tolerances:

Thickness: < 1,0 mm = ± 0,1 mm
≥ 1,0 mm = ± 10%

Length: ± 50 mm

Width: ± 50 mm

Surface treatment:

Treatment with graphite, PTFE and antistick coating is available on request.

All information data quoted are based on years of experience in production and operation of sealing elements. However, in view of the wide variety of possible installation and operating conditions one cannot draw final conclusions in all application cases regarding the behaviour in a gasket joint. The data may not, therefore, be used to support any warranty claims. Whenever there is any doubt, our staff will be pleased to assist you in finding the optimum sealing solutions.

Technical data

Typical values for a thickness of 2 mm

Compressibility	ASTM F 36/J	%	9	8
Recovery	ASTM F 36/J	%	55	50
Tensile strength	DIN 52910	N/mm ²	8	8
Stress resistance	DIN 52913			
• 16h, 300°C, 50 N/mm ²		N/mm ²	25	30
• 16h, 175°C, 50 N/mm ²		N/mm ²	30	35
Gas permeability	DIN 3535/6	ml/min	0.5	0.8
Thickness increase	ASTM F 146			
• ASTM Oil No. 3, 5h, 150°C		%	7	8
• ASTM Fuel B, 5h, 23°C		%		8
• HNO ₃ 40%, 18h, 23°C		%		
• H ₂ SO ₄ 65 %, 48h, 23°C		%		
*Max. operating conditions				
Peak temperature		°C/°F	500/930	450/840
Continuous temperature		°C/°F	300/572	350/662
-with steam		°C/°F	280/536	250/482
Pressure		bar/psi	130/1885	100/1450

Basis

Carbon fibres, NBR

• Glass fibres, NBR

General properties and application

• Material with excellent resistance to steam and strong alkaline media

• Chemical and petrochemical industry

• Excellent torque retention, good steel and thermal resistance
• Suitable for use with water, oils, gases, for organic and inorganic acids

BA-X

BA-U

BA-F

BA-C

BA-S

- Aramide fibres, NBR

- Aramide fibres, NBR

- Synthetic fibres, graphite, NBR

- Aramide fibres, CSM

- Aramide fibres, NBR

- Material with excellent mechanical properties and very good chemical and thermal resistance
- General use

- Good chemical, mechanical and thermal properties
 - General use
- DIN-DVGW 87.01e609 (for gas installations)

- Very good thermal properties and chemical resistance to steam, oils, gases, fuels, alkaline media and weak acids
- Chemical and petrochemical industry

- Different aggressive media
- Very good chemical resistance to acids and alkaline media

- Good chemical and mechanical properties
- Resistance to oils, fuels and cooling liquids
- Automotive industry

BAM (for use with oxygen)

WRC, KTW (for drinking water)
BAM (for use with oxygen)
HTB (for high thermal loading)
SVGW (for gas installations)

BS 7531 Grade Y

8
50
15

8
55
11

7
50
9

8
45
10

8
50
11

25
33
0.5

22
28
0.5

25
30
0.8

25
0.6

20
28
0.5

5
5

5
5

5
8

10
8

5
5

400/752

400/750

450/840

200/400

400/750

280/536

250/482

300/570

150/302

250/482

200/392

200/392

250/482

60/870

200/392

140/2030

100/1450

100/1450

100/1450

BA-202**BA-R****BAR-300****BAR-302**

Non-asbestos Jointing Materials

- Organic fibres, NBR

BA-202

- Good resistance to water, gases, oils, fuels
- Material is very suitable for sealing applications at lower loadings

BA-202

- Aramide fibres, NBR/SBR, wire-reinforced

BA-R

- Great strength because of wire reinforcement
- Very suitable for dynamic loading
- Automotive and petrochemical industry, shipyards

BA-R**BA-202**

- Inorganic fibres, NBR, special reinforcement

BAR-300

- Material with excellent dynamic and thermal resistance
- Automotive and petrochemical industry, shipyards

BAR-300**BAR-300**

- Inorganic fibres, NBR, special reinforcement

BAR-302

- Material with extreme dynamic and thermal resistance
- Automotive and petrochemical industry, shipyards

BAR-302**BAR-302****BA-202**

8
50
7

20
0.8

10
10

BA-202

180/356
140/284
120/248
40/580

BA-R

7
50
15

30
35

BA-R

400/752
350/662
230/446
140/2030

BAR-300

8
40

40

5

BAR-300

550/102
450/842
500/7251

BAR-302

7
45

45

BAR-302

650/1202
600/1112
500/7251



The recommendations made here are intended to be a guideline for the selection of the suitable gasket quality. Because the function and durability of the products depend on many factors, the data may not be used to support any warranty claims.

● Recommended
● Recommendation depends on operating conditions
● Not recommended

BA-CF	BA-GL	BA-X, BA-U	BA-F	BA-C	BA-S, BA-203	BA-N	BA-Auto	BA-50	BA-5M	BA-202	BA-R																																		
Acetamide	Acetic acid 10%	Acetic acid 100%	Acetic ester	Acetone	Acetylene	Adipic acid	Air	Alum	Aluminium acetate	Aluminium chloride	Aluminium chloride	Ammonia	Ammonium bicarbonate	Ammonium chloride	Ammonium hydroxide	Amyl acetate	Aniline	Asphalt	Barium chloride	Benzene	Benzoic acid	Boric acid	Borax	Bulane	Butyl alcohol	Butyric acid	Calcium chloride	Calcium hydroxide	Carbon disulphide	Carbon dioxide	Chloroform	Chlorine, dry	Chlorine, wet	Chromic acid	Citric acid	Copper acetate	Cresosol	Cresol	Cyclohexanol	Cyclohexanone	Decaline	Dibenzyl ether	Dimethyl formamide	Dowtherm	Ethane
Ethyl acetate	Ethyl alcohol	Ethyl chloride	Ethylene	Ethylene glycol	Formic acid 10%	Formic acid 85%	Formaldehyde	Freon 12	Freon 22	Fuel oil	Gasoline	Glycerine	Heptane	Hydraulic oil (Mineral)	Hydraulic oil	(Phosphate ester type)	Hydraulic (Glycol based)	Hydrazine	Hydrochloric acid 20%	Hydrochloric acid 36%	Hydrofluoric acid 10%	Hydrofluoric acid 40%	Hydrogen	Isobutane	Isocetane	Isopropyl alcohol	Kerosene	Lead acetate	Lead arsenate	Magnesium sulphate	Mallic acid	Methane	Methanol	Methyl chloride	Methylene dichloride	Methyl ethyl ketone	Milk	Mineral oil type ASTM no. 1	Naphtha	Nitric acid 20%	Nitric acid 40%	Nitric acid 96%	Nitrobenzene	Nitrogen	Octane
Oleic acid	Oleum	Oxalic acid	Oxygen	Palmitic acid	Pentane	Perchloroethylene	Phenol	Phosphoric acid	Potassium acetate	Potassium bicarbonate	Potassium carbonate	Potassium chloride	Potassium dichromate	Potassium hydroxide	Potassium iodide	Potassium nitrate	Potassium permanganate	Propane	Pyridine	Salicylic acid	Silicone oil	Soap	Sodium aluminate	Sodium bicarbonate	Sodium bisulphite	Sodium carbonate	Sodium chloride	Sodium cyanide	Sodium hydroxide	Sodium sulphate	Sodium sulphide	Starch	Steam	Stearic acid	Sugar	Sulphuric acid 20%	Sulphuric acid 96%	Tar	Tartaric acid	Toluene	Transformer oil	Trichlorethylene	Water	White Spirit	Xylene