

TESNIT® BA-202 is our standard gasket sheet, suitable for sealing applications at low operating conditions.

## PROPERTIES

Composition	Organic fibers bonded with NBR. Available with wire reinforcement on request.
Colour	Pink / Red
Properties	Very good chemical resistance against gases, oils and fuels. Also highly water resistant.
Appropriate industries	Pipeline systems, water supply industry, machine building.

## SURFACE TREATMENTS

Surface treatment is 2AS.  
Other surface treatments including graphite and PTFE are available on request.

## DIMENSIONS OF STANDARD SHEETS

Sheet size (mm): 1500 x 1500 | 3000 x 1500 | 4500 x 1500  
Thickness (mm): 0.5 | 1.0 | 1.5 | 2.0 | 3.0  
Other dimensions and thicknesses are available on request.

### Tolerances:

+/- 5 % on length and width  
On thickness up to 1.0 mm +/- 0.1 mm  
On thickness above 1.0 mm +/- 10 %

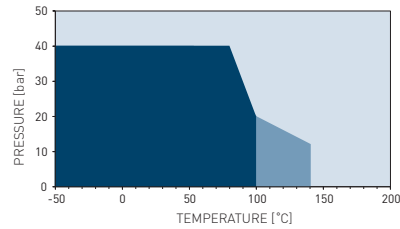
## TECHNICAL DATA

Typical values for a thickness of 2 mm

<b>Density</b>	DIN 28090-2	g/cm <sup>3</sup>	1.8
<b>Compressibility</b>	ASTM F36J	%	9
<b>Recovery</b>	ASTM F36J	%	60
<b>Tensile strength</b>	ASTM F152	MPa	8
<b>Stress resistance</b>	DIN 52913		
16 h, 50 MPa, 175 °C		MPa	20
16 h, 50 MPa, 300 °C		MPa	/
<b>Specific leak rate</b>	DIN 3535-6	mg/(s·m)	0.06
<b>Thickness increase</b>	ASTM F146		
Oil IRM 903, 5 h, 150 °C		%	10
ASTM Fuel B, 5 h, 23 °C		%	10
<b>Compression modulus</b>	DIN 28090-2		
At room temperature: $\epsilon_{KSW}$		%	/
At elevated temperature: $\epsilon_{WSW/200\text{ °C}}$		%	/
<b>Percentage creep relaxation</b>	DIN 28090-2		
At room temperature: $\epsilon_{KRW}$		%	/
At elevated temperature: $\epsilon_{WRW/200\text{ °C}}$		%	/
<b>Max. operating conditions</b>			
Peak temperature		°C/°F	180/356
Continuous temperature		°C/°F	140/284
- with steam		°C/°F	120/248
Pressure		bar/psi	40/580

## P-T DIAGRAM

EN 1514-1, Type IBC, PN 40, DIN 28091-2 / 3,8, 2.0 mm

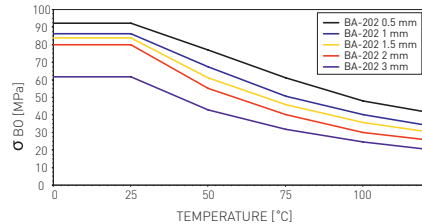


- General suitability using common installation practices under the condition of chemical compatibility.
- Maximum performance is ensured through appropriate measures for joint design and gasket installation. Consultation is recommended.
- Limited application area. Technical consultation is mandatory.

Pressure - Temperature diagrams are the most current method for determining the suitability of a gasket material in a known application. Maximum figures for temperature and pressure can be misleading. Max. temperature and max. pressure represent maximum values and should not be used simultaneously. They are given only for guidance, since these max. values depend not only on the type of gasket material used but also on the assembly conditions. Please use the Pressure - Temperature diagrams to check the suitability of the chosen gasket material for your application (combination of pressure and temperature).

## σ<sub>BO</sub> DIAGRAM

DIN 28090-1



This diagram describes characteristic values of gasket materials for static seal for use in flanged applications. Given the wide range of gasket applications, these values should merely be considered as a means of assembling the sealing behaviour of gasket under service conditions. Sigma diagram shows the maximal allowed surface pressure (maximum in-service compressive pressure) on gasket at operating service temperature for different material thicknesses.

## CHEMICAL RESISTANCE CHART

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 upon a number of factors, the data may not be used to support any warranty claims.

- ⊕ Recommended
- ⊙ Recommendation depends on operating conditions
- ⊖ Not recommended

	BA-202		BA-202		BA-202
Acetamide	⊕	Ethyl acetate	⊙	Oleum	⊖
Acetic acid 10%	⊕	Ethyl alcohol	⊕	Oxalic acid	⊙
Acetic acid 100%	⊕	Ethyl chloride	⊖	Oxygen	⊕
Acetic ester	⊙	Ethylene	⊕	Palmitic acid	⊕
Acetone	⊙	Ethylene glycol	⊕	Pentane	⊙
Acetylene	⊕	Formic acid 10%	⊙	Perchloroethylene	⊙
Adipic acid	⊕	Formic acid 85%	⊙	Phenol	⊖
Air	⊕	Formaldehyde	⊕	Phosphoric acid	⊖
Alum	⊕	Freon 12	⊙	Potassium acetate	⊕
Aluminium acetate	⊕	Freon 22	⊖	Potassium bicarbonate	⊕
Aluminium chlorate	⊕	Fuel oil	⊕	Potassium carbonate	⊕
Aluminium chloride	⊕	Gasoline	⊙	Potassium chloride	⊕
Ammonia	⊙	Glycerine	⊕	Potassium dichromate	⊕
Ammonium bicarbonate	⊕	Heptane	⊙	Potassium hydroxide	⊙
Ammonium chloride	⊕	Hydraulic oil (Mineral)	⊙	Potassium iodide	⊕
Ammonium hydroxide	⊙	Hydraulic oil (Phosphate ester type)	⊙	Potassium nitrate	⊕
Amyl acetate	⊙	Hydraulic oil (Glycol based)	⊕	Potassium permanganate	⊕
Aniline	⊖	Hydrazine	⊕	Propane	⊙
Asphalt	⊕	Hydrochloric acid 20%	⊖	Pyridine	⊖
Barium chloride	⊕	Hydrochloric acid 36%	⊖	R 134a	⊙
Benzene	⊙	Hydrofluoric acid 10%	⊖	Salicylic acid	⊕
Benzoic acid	⊕	Hydrofluoric acid 40%	⊖	Silicone oil	⊕
Boric acid	⊕	Hydrogen	⊕	Soap	⊕
Borax	⊕	Isobutane	⊕	Sodium aluminate	⊕
Butane	⊕	Isooctane	⊙	Sodium bicarbonate	⊕
Butyl alcohol	⊕	Isopropyl alcohol	⊕	Sodium bisulphite	⊕
Butyric acid	⊕	Kerosene	⊕	Sodium carbonate	⊕
Calcium chloride	⊕	Lead acetate	⊕	Sodium chloride	⊕
Calcium hydroxide	⊕	Lead arsenate	⊕	Sodium cyanide	⊕
Carbon dioxide	⊕	Magnesium sulphate	⊕	Sodium hydroxide	⊖
Carbon disulphide	⊖	Malic acid	⊕	Sodium sulphate	⊕
Chloroform	⊙	Methane	⊕	Sodium sulphide	⊕
Chlorine, dry	⊖	Methanol	⊕	Starch	⊕
Chlorine, wet	⊖	Methyl chloride	⊙	Steam	⊙
Chromic acid	⊖	Methylene dichloride	⊙	Stearic acid	⊕
Citric acid	⊕	Methyl ethyl ketone	⊙	Sugar	⊕
Copper acetate	⊕	Milk	⊕	Sulphuric acid 20%	⊖
Creosote	⊖	Mineral oil type ASTM no.1	⊕	Sulphuric acid 96%	⊖
Cresol	⊖	Naphtha	⊙	Tar	⊕
Cyclohexanol	⊕	Nitric acid 20%	⊖	Tartaric acid	⊕
Cyclohexanone	⊙	Nitric acid 40%	⊖	Toluene	⊕
Decalin	⊙	Nitric acid 96%	⊖	Transformer oil	⊕
Dibenzyl ether	⊖	Nitrobenzene	⊖	Trichlorethylene	⊙
Dimethyl formamide	⊖	Nitrogen	⊕	Water	⊕
Dowtherm	⊙	Octane	⊙	White spirit	⊙
Ethane	⊕	Oleic acid	⊕	Xylene	⊙

All information and data quoted are based on years of experience in production and operation of sealing elements. The data may not be used to support any warranty claims. This edition cancels all previous issues and is a subject to change without further notice.



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