



TESNIT® BA-GL is an excellent soft gasket material composed of selected glass fibers, suitable for sealing of a broad range of joints at high temperatures.

PROPERTIES

Composition	Glass fibers bonded with NBR. Available with wire or expanded steel reinforcement on request.
Colour	Green
Properties	Superior torque retention and good steam resistance. Excellent thermal resistance in combination with low gas permeability.
Appropriate industries	Steam supply, potable water supply, gas supply, shipbuilding, power plants.
Approvals	DIN-DVGW DIN 3535-6, DVGW VP 401, DVGW KTW, BAM (Oxygen), WRAS, TA-Luft (VDI 2440), API 607, Germanischer Lloyd, EC 1935/2004

SURFACE TREATMENTS

Surface treatment is 4AS.
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

Density	DIN 28090-2	g/cm ³	1.8
Compressibility	ASTM F36J	%	7
Recovery	ASTM F36J	%	55
Tensile strength	ASTM F152	MPa	11
Stress resistance	DIN 52913		
16 h, 50 MPa, 175 °C		MPa	38
16 h, 50 MPa, 300 °C		MPa	33
Specific leak rate	DIN 3535-6	mg/(s·m)	0.03
Thickness increase	ASTM F146		
Oil IRM 903, 5 h, 150 °C		%	3
ASTM Fuel B, 5 h, 23 °C		%	5
Compression modulus	DIN 28090-2		
At room temperature: ϵ_{KSW}		%	6.9
At elevated temperature: $\epsilon_{WSW/200\text{ °C}}$		%	7.9
Percentage creep relaxation	DIN 28090-2		
At room temperature: ϵ_{KRW}		%	3.3
At elevated temperature: $\epsilon_{WRW/200\text{ °C}}$		%	1.2
Max. operating conditions			
Peak temperature		°C/°F	440/824
Continuous temperature		°C/°F	350/662
- with steam		°C/°F	250/482
Pressure		bar/psi	120/1740

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-GL		BA-GL		BA-GL
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	-	Trichloroethylene	?
Dimethyl formamide	-	Nitrogen	+	Water	+
Dowtherm	?	Octane	+	White spirit	+
Ethane	+	Oleic acid	+	Xylene	?

All information and data quoted are based upon years of experience in the production and operation of sealing elements. This data may not be used to support any warranty claims. With its publication this latest edition supersedes all previous issues and is subject to change without further notice.