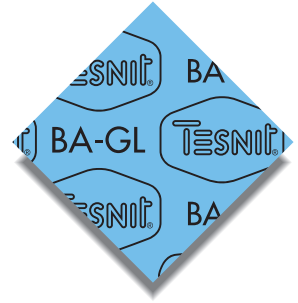




**WILLIAM JOHNSTON**  
& COMPANY LIMITED

**TESNIT BA-GL**



## TECHNICAL DATA SHEET

### Basis

*Glass fibres, NBR.*

### General properties and application

*Gasket material with excellent torque retention and good steam and thermal resistance*

*Suitable for use with water, oil, gasses, fuels, organic and inorganic acids*

### Approvals

Germanischer Lloyd, UDT, CRS, BS 7531 Grade X, DIN-DVGW, HTB

Applied for: KTW, SVGW

### Dimensions of standard sheets

*Sheet size: 1000 x 1500 mm, 1500 x 1500 mm*

*Thickness: 0.5 mm, 0.8 mm, 1.0 mm, 1.5 mm, 2.0 mm, 3.0 mm (other thicknesses on request)*

*Tolerances: Thickness: < 1 mm ± 0.1 mm, ≥ 1 mm ± 10 %, Length: ± 50 mm, Width: ± 50*

*Surface treatment: Treatment with graphite, PTFE and antistick coating is available on request.*

### Technical data

Typical values (thickness 2.0 mm)

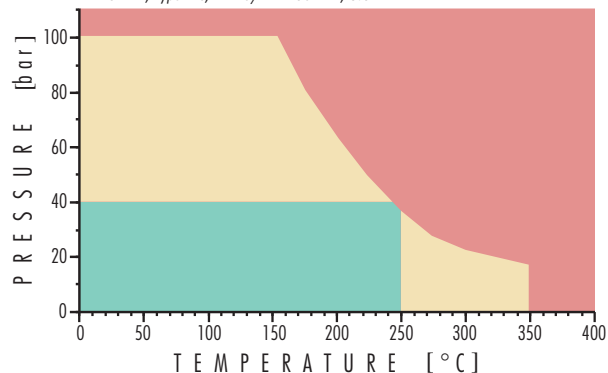
|                                   |             |                    |
|-----------------------------------|-------------|--------------------|
| Compressibility                   | ASTM F 36/J | 8 %                |
| Recovery                          | ASTM F 36/J | 50 %               |
| Tensile strength                  | DIN 52910   | 8 MPa              |
| Stress resistance                 | DIN 52913   |                    |
| • 16h, 300°C, 50 MPa              |             | 30 MPa             |
| • 16h, 175°C, 50 MPa              |             | 35 MPa             |
| Specific Leak rate                | DIN 3535/6  | 0.08 mg/(s.m)      |
| Thickness increase                | ASTM F 146  |                    |
| • Oil IRM 903, 5h, 150°C          |             | 8 %                |
| • ASTM Fuel B, 5h, 150°C          |             | 8 %                |
| <b>*Max. operating conditions</b> |             |                    |
| Peak temperature                  |             | 440°C / 824°F      |
| Continuous temperature            |             | 350°C / 662°F      |
| - with steam                      |             | 250°C / 482°F      |
| Pressure                          |             | 100 bar / 1450 psi |

*\* Temperature and pressure represent maximum values and should not be used simultaneously. They are given only for guidance, since they depend not only on the type of gasket material but also on the assembly conditions. Very important factors are: thickness of material, nature of service medium, type of flange, surface stress. Steam application requires special consideration.*

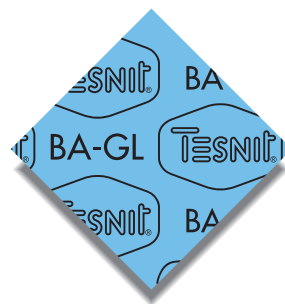
- General suitability using common installation practices under the condition of chemical compatibility.
- Max. performance is ensure through appropriate measures for joint design and gasket installation. Consultation is recommended.
- Limited application area - Technical consultation is mandatory.

### BA-GL, 2 mm

EN 1514-1, Type IBC, PN 40/DIN 28091-2, 3.8



*This edition cancels all previous issues. Subject to change without notice.*



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 |
|--------------------------------------|--|-------------------|
| Acetamide                            | ●  |                   |
| Acetic acid 10%                      | ●  |                   |
| Acetic acid 100%                     | ●  |                   |
| Acetic ester                         | ■  |                   |
| Acetone                              | ■  |                   |
| Acetylene                            | ●  |                   |
| Adipic acid                          | ●  |                   |
| Air                                  | ●  |                   |
| Alum                                 | ●  |                   |
| Aluminium acetate                    | ●  |                   |
| Aluminium chlorate                   | ●  |                   |
| Aluminium chloride                   | ●  |                   |
| Ammonia                              | ■  |                   |
| Ammonium bicarbonate                 | ●  |                   |
| Ammonium chloride                    | ●  |                   |
| Ammonium hydroxide                   | ■  |                   |
| Amyl acetate                         | ■  |                   |
| Aniline                              | ▼  |                   |
| Asphalt                              | ●  |                   |
| Barium chloride                      | ●  |                   |
| Benzene                              | ●  |                   |
| Benzoic acid                         | ●  |                   |
| Boric acid                           | ●  |                   |
| Borax                                | ●  |                   |
| Butane                               | ●  |                   |
| Butyl alcohol                        | ●  |                   |
| Butyric acid                         | ●  |                   |
| Calcium chloride                     | ●  |                   |
| Calcium hydroxide                    | ●  |                   |
| Carbon disulphide                    | ▼  |                   |
| Carbon dioxide                       | ●  |                   |
| Chloroform                           | ■  |                   |
| Chlorine, dry                        | ▼  |                   |
| Chlorine, wet                        | ▼  |                   |
| Chromic acid                         | ▼  |                   |
| Citric acid                          | ●  |                   |
| Copper acetate                       | ●  |                   |
| Creosote                             | ▼  |                   |
| 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 oil (glycol based)         | ■  |                   |
| Hydrazine                            | ●  |                   |
| Hydrochloric acid 20%                | ●  |                   |
| Hydrochloric acid 36%                | ■  |                   |
| Hydrofluoric acid 10%                | ▼  |                   |
| Hydrofluoric acid 40%                | ▼  |                   |
| Hydrogen                             | ●  |                   |
| Isobutane                            | ●  |                   |
| Isooctane                            | ●  |                   |
| Isopropyl alcohol                    | ●  |                   |
| Kerosene                             | ●  |                   |
| Lead acetate                         | ●  |                   |
| Lead arsenate                        | ●  |                   |
| Magnesium sulphate                   | ●  |                   |
| Malic 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                               | ■  |                   |

MAJ-5-519m\_english\_jezik\_21.3.2003

In order to spread the most comprehensive knowledge of our products, our highly skilled group of experts organized in the technical-service department can assist you by solving practically any sealing problem. If you need our help, contact us.



**WILLIAM JOHNSTON**  
& COMPANY LIMITED

Tel: 0141 620 1666 Fax: 0141 620 1888  
[sales@williamjohnston.co.uk](mailto:sales@williamjohnston.co.uk)  
[www.williamjohnston.co.uk](http://www.williamjohnston.co.uk)