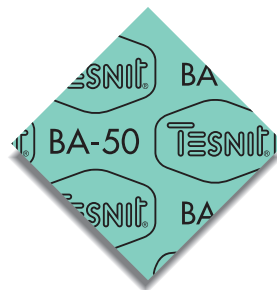




**WILLIAM JOHNSTON**  
& COMPANY LIMITED

**TESNIT BA-50**



## TECHNICAL DATA SHEET

### Basis

Aramide fibres, NBR.

### General properties and application

Gasket material with good chemical resistance, for higher loadings. Very suitable economical quality for gas, food and chemical industries. Sealing of potable water.

### Approvals

DIN-DVGW, KTW, WQc/WRAS, SVGW, Germanischer Lloyd, CRS

### 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  $\pm$  0.1 mm,  $\geq$  1 mm  $\pm$  10 %, Length:  $\pm$  50 mm, Width:  $\pm$  50

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

## Technical data

Typical values (thickness 2.0 mm)

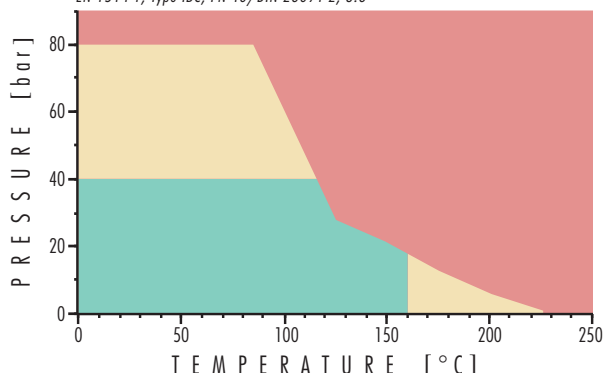
Compressibility	ASTM F 36/J	8 %
Recovery	ASTM F 36/J	45 %
Tensile strenght	DIN 52910	9 MPa
Stress resistance	DIN 52913	
• 16h, 300°C, 50 MPa		20 MPa
• 16h, 175°C, 50 MPa		25 MPa
Specific Leak rate	DIN 3535/6	0.08 mg/(s.m)
Thickness increase	ASTM F 146	
• Oil IRM 903, 5h, 150°C		10 %
• ASTM Fuel B, 5h, 23°C		10 %
<b>*Max. operating conditions</b>		
Peak temperature		280°C / 536°F
Continuous temperature		220°C / 428°F
- with steam		180°C / 356°F
Pressure		80 bar / 1160 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.

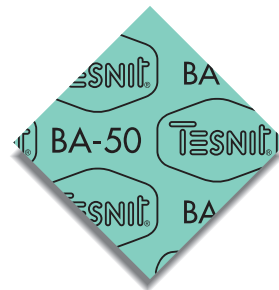
### BA-50, 2 mm

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



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

# TESNIT® BA-50



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.

<div> <span>● Recommended</span>  <span>■ Recommendation depends on operating conditions</span>  <span>▼ Not recommended</span> </div>		
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% ▼	Salicylic acid ●
Benzene ●	Hydrofluoric acid 10% ▼	Silicone oil ●
Benzoic acid ●	Hydrofluoric acid 40% ▼	Soap ●
Boric acid ●	Hydrogen ●	Sodium aluminate ●
Borax ●	Isobutane ●	Sodium bicarbonate ●
Butane ●	Isooctane ●	Sodium bisulphite ●
Butyl alcohol ●	Isopropyl alcohol ●	Sodium carbonate ●
Butyric acid ●	Kerosene ●	Sodium chloride ●
Calcium chloride ●	Lead acetate ●	Sodium cyanide ●
Calcium hydroxide ●	Lead arsenate ●	Sodium hydroxide ■
Carbon disulphide ▼	Magnesium sulphate ●	Sodium sulphate ●
Carbon dioxide ●	Malic acid ●	Sodium sulphide ●
Chloroform ■	Methane ●	Starch ●
Chlorine, dry ●	Methanol ●	Steam ●
Chlorine, wet ▼	Methyl chloride ■	Stearic acid ●
Chromic acid ■	Methylene dichloride ▼	Sugar ●
Citric acid ●	Methyl ethyl ketone ■	Sulphuric acid 20% ▼
Copper acetate ●	Milk ●	Sulphuric acid 96% ▼
Creosote ▼	Mineral oil type ASTM no. 1 ●	Tar ●
Cresol ■	Naphtha ●	Tartaric acid ●
Cyclohexanol ●	Nitric acid 20% ▼	Toluene ●
Cyclohexanone ▼	Nitric acid 40% ▼	Transformer oil ●
Decaline ●	Nitric acid 96% ▼	Trichlorethylene ■
Dibenzyl ether ▼	Nitrobenzene ▼	Water ●
Dimethyl formamide ▼	Nitrogen ●	White Spirit ●
Dowtherm ■	Octane ●	Xylene ■
Ethane ●	Oleic acid ●	

MAJ-3 sign angličtí jazyk, 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.



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