



TESNIT® BA-202 has good mechanical and sealing properties. It has been designed for less demanding applications, in particular the water supply industry.

## PROPERTIES

SUPERIOR	_____			
EXCELLENT	_____			
VERY GOOD	MECHANICAL RESISTANCE	SEALABILITY PERFORMANCE		CHEMICAL RESISTANCE
GOOD	GOOD	THERMAL RESISTANCE	GOOD	GOOD
MODERATE	MODERATE	MODERATE	MODERATE	MODERATE

## APPROPRIATE INDUSTRIES & APPLICATIONS

- GENERAL PURPOSE
- WATER SUPPLY
- SHIPBUILDING

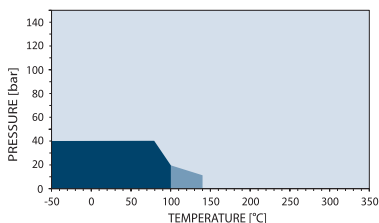
Composition	Cellulose fibers, inorganic fillers, NBR binder Optional steel wire mesh reinforcement
Color	Pink / Red
Approvals	Please inquire

## 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		
50 Mpa, 175 °C, 16 h		MPa	20
50 Mpa, 300 °C, 16 h		MPa	/
<b>Specific leak rate</b>	DIN 3535-6	mg/(s·m)	0.04
<b>Thickness increase</b>	ASTM F146		
Oil IRM 903, 150 °C, 5 h		%	10
ASTM Fuel B, 23 °C, 5 h		%	10
<b>Compression modulus</b>	DIN 28090-2		
At room temperature: $\epsilon_{KSW}$		%	/
At elevated temperature: $\epsilon_{WSW/200\text{ °C}}$		%	/
<b>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 - Under common installation practices and chemical compatibility.
- Conditional suitability - Appropriate measures ensure maximum performance for joint design and gasket installation. Technical consultation is recommended.
- Limited suitability - Technical consultation is mandatory.

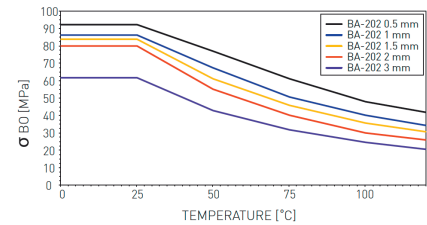
**P-T diagram** indicates the maximum permissible combination of internal pressure and service temperature which can be simultaneously applied for a given gasket's thickness, size and tightness class. Given the wide variety of gasket applications and service conditions, these values should only be regarded as a guidance for the proper gasket assembly. In general, thinner gaskets exhibit better P-T properties.

Surface finish	Standard: 2AS. Optional: graphite or PTFE
Sheet dimensions	Size (mm): 1500 x 1500   3000 x 1500   4500 x 1500 Thickness (mm): 0.5   1.0   1.5   2.0   3.0 Other sizes and thicknesses available on request
Tolerances	On length and width: ± 5 % On thickness up to 1.0 mm: ± 0.1 mm On thickness above 1.0 mm: ± 10 %

Acetamide	+	Dioxane	-	Oleic acid	+
Acetic acid, 10%	+	Diphyl (Dowtherm A)	+	Oleum (Sulfuric acid, fuming)	-
Acetic acid, 100% (Glacial)	+	Esters	+	Oxalic acid	+
Acetone	+	Ethane (gas)	+	Oxygen (gas)	-
Acetonitrile	-	Ethers	+	Palmitic acid	+
Acetylene (gas)	+	Ethyl acetate	+	Paraffin oil	+
Acid chlorides	-	Ethyl alcohol (Ethanol)	+	Pentane	+
Acrylic acid	-	Ethyl cellulose	+	Perchloroethylene	-
Acrylonitrile	-	Ethyl chloride (gas)	-	Petroleum (Crude oil)	+
Adipic acid	+	Ethylene (gas)	+	Phenol (Carbolic acid)	-
Air (gas)	+	Ethylene glycol	+	Phosphoric acid, 40%	-
Aldehydes	+	Formaldehyde (Formalin)	+	Phosphoric acid, 85%	-
Alum	+	Formamide	+	Phthalic acid	+
Aluminium acetate	+	Formic acid, 10%	+	Potassium acetate	+
Aluminium chlorate	+	Formic acid, 85%	-	Potassium bicarbonate	+
Aluminium chloride	-	Formic acid, 100%	-	Potassium carbonate	+
Aluminium sulfate	-	Freon-12 (R-12)	+	Potassium chloride	+
Amines	-	Freon-134a (R-134a)	+	Potassium cyanide	+
Ammonia (gas)	-	Freon-22 (R-22)	+	Potassium dichromate	-
Ammonium bicarbonate	+	Fruit juices	+	Potassium hydroxide	-
Ammonium chloride	+	Fuel oil	+	Potassium iodide	+
Ammonium hydroxide	+	Gasoline	+	Potassium nitrate	+
Amyl acetate	+	Gelatin	+	Potassium permanganate	-
Anhydrides	-	Glycerine (Glycerol)	+	Propane (gas)	+
Aniline	-	Glycols	+	Propylene (gas)	+
Anisole	+	Helium (gas)	+	Pyridine	-
Argon (gas)	+	Heptane	+	Salicylic acid	+
Asphalt	+	Hydraulic oil (Glycol based)	+	Seawater/brine	+
Barium chloride	+	Hydraulic oil (Mineral type)	+	Silicones (oil/grease)	+
Benzaldehyde	-	Hydraulic oil (Phosphate ester based)	+	Soaps	+
Benzene	+	Hydrazine	-	Sodium aluminate	+
Benzoic acid	+	Hydrochloric acid, 10%	-	Sodium bicarbonate	+
Bio-diesel	+	Hydrochloric acid, 37%	-	Sodium bisulfite	+
Bio-ethanol	+	Hydrofluoric acid, 10%	-	Sodium carbonate	+
Black liquor	+	Hydrofluoric acid, 48%	-	Sodium chloride	+
Borax	+	Hydrogen (gas)	+	Sodium cyanide	+
Boric acid	+	Iron sulfate	+	Sodium hydroxide	-
Butadiene (gas)	+	Isobutane (gas)	+	Sodium hypochlorite (Bleach)	-
Butane (gas)	+	Isooctane	+	Sodium silicate (Water glass)	+
Butyl alcohol (Butanol)	+	Isoprene	+	Sodium sulfate	+
Butyric acid	+	Isopropyl alcohol (Isopropanol)	+	Sodium sulfide	-
Calcium chloride	+	Kerosene	+	Starch	+
Calcium hydroxide	+	Ketones	+	Steam	+
Carbon dioxide (gas)	+	Lactic acid	+	Stearic acid	+
Carbon monoxide (gas)	+	Lead acetate	+	Styrene	+
Cellosolve	+	Lead arsenate	+	Sugars	+
Chlorine (gas)	-	Magnesium sulfate	+	Sulfur	+
Chlorine (in water)	+	Maleic acid	+	Sulfur dioxide (gas)	+
Chlorobenzene	+	Malic acid	+	Sulfuric acid, 20%	-
Chloroform	-	Methane (gas)	+	Sulfuric acid, 98%	-
Chloroprene	+	Methyl alcohol (Methanol)	+	Sulfuryl chloride	-
Chlorosilanes	-	Methyl chloride (gas)	+	Tar	+
Chromic acid	-	Methylene dichloride	+	Tartaric acid	+
Citric acid	+	Methyl ethyl ketone (MEK)	+	Tetrahydrofuran (THF)	-
Copper acetate	+	N-Methyl-pyrrolidone (NMP)	+	Titanium tetrachloride	-
Copper sulfate	+	Milk	+	Toluene	+
Creosote	+	Mineral oil (ASTM no.1)	+	2,4-Toluenedisocyanate	+
Cresols (Cresylic acid)	-	Motor oil	+	Transformer oil (Mineral type)	+
Cyclohexane	+	Naphtha	+	Trichloroethylene	-
Cyclohexanol	+	Nitric acid, 10%	-	Vinegar	+
Cyclohexanone	+	Nitric acid, 65%	-	Vinyl chloride (gas)	-
Decalin	+	Nitrobenzene	-	Vinylidene chloride	-
Dextrin	+	Nitrogen (gas)	+	Water	+
Dibenzyl ether	+	Nitrous gases (NOx)	+	White spirits	+
Dibutyl phthalate	+	Octane	+	Xylenes	+
Dimethylacetamide (DMA)	+	Oils (Essential)	+	Xylenol	-
Dimethylformamide (DMF)	+	Oils (Vegetable)	+	Zinc sulfate	+

## σ<sub>BO</sub> DIAGRAM

DIN 28090-1



σ<sub>BO</sub> diagram represents σ<sub>BO</sub> values for different gasket material thicknesses. These values indicate the maximum in-service compressive pressures which can be applied on the gasket area involved without destructing or damaging the gasket material.

## CHEMICAL RESISTANCE CHART

The recommendations made here are intended as a guideline for the selection of a suitable gasket type. As the function and durability of products are dependent upon a number of factors, the data may not be used to support any warranty claims. If there are specific type-approval regulations, these have to be complied with.

- + Recommended |
- + Recommendation depends on operating conditions |
- Not recommended |



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