

TESNIT® BA-55



TESNIT® BA-55 is a standard gasket material made of special synthetic fibers, which makes it very suitable for use with higher thermal loads.

PROPERTIES

Composition	Special synthetic fibers bonded with NBR. Available with wire reinforcement on request.
Colour	Dark green
Properties	Excellent thermal properties and very good steam resistance.
Appropriate industries	Potable water supply, gas supply, pumps, radiators, steam supply.
Approvals	BAM (Oxygen), DIN-DVGW DIN 3535-6, DVGW KTW, DVGW W270, DVGW VP 401, DVGW VP 401 (5 bar), EC 1935/2004
SURFACE TREATMENTS	DIMENSIONS OF STANDARD SHEETS
Surface treatment is 4AS. Other surface treatments including graphite and PTFE are available on request.	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

TECHNICAL DATA

Density	DIN 28090-2	g/cm³	1.8
Compressibility	ASTM F36J	%	7
Recovery	ASTM F36J	%	55
Tensile strength	ASTM F152	MPa	7
Stress resistance	DIN 52913		
16 h, 50 MPa, 175 °C		MPa	35
16 h, 50 MPa, 300 °C		MPa	30
Specific leak rate	DIN 3535-6	mg/(s·m)	0.08
Thickness increase	ASTM F146		
Oil IRM 903, 5 h, 150 °C		%	8
ASTM Fuel B, 5 h, 23 °C		%	10
Compression modulus	DIN 28090-2		
At room temperature: $\mathbf{\epsilon}_{ ext{ iny KSW}}$		%	7.6
At elevated temperature: $\mathbf{\mathcal{E}}_{WSW/200^{\circC}}$		%	11.4
Percentage creep relaxation	DIN 28090-2		
At room temperature: $\epsilon_{\mbox{\tiny KRW}}$		%	3.2
At elevated temperature: $\epsilon_{\mbox{\tiny WRW/200 }^{\circ}\mbox{\tiny C}}$		%	0.8
Max. operating conditions			
Peak temperature		°C/°F	350/662
Continuous temperature		°C/°F	270/518
- with steam		°C/°F	230/446
Pressure		bar/psi	100/1450





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.

- Recommendation depends on operating conditions
- Not recommended

	BA-55		BA-55		BA-55
Antonida		Fabril acceptate	m	Olave	-
Acetamide	0	Ethyl acetate	0	Oleum	9
Acetic acid 10%		Ethyl alcohol	0	Oxalic acid	0
Acetic acid 100%	0	Ethyl chloride	9	Oxygen	0
Acetic ester	9	Ethylene	0	Palmitic acid	0
Acetone	9	Ethylene glycol	0	Pentane	0
Acetylene	0	Formic acid 10%	0	Perchloroethylene	9
Adipic acid	0	Formic acid 85%	9	Phenol	2
Air	0	Formaldehyde	0	Phosphoric acid	9
Alum	0	Freon 12	0	Potassium acetate	0
Aluminium acetate	0	Freon 22	9	Potassium bicarbonate	0
Aluminium chlorate	0	Fuel oil	0	Potassium carbonate	0
Aluminium chloride	0	Gasoline	0	Potassium chloride	0
Ammonia	0	Glycerine	0	Potassium dichromate	0
Ammonium bicarbonate	0	Heptane	0	Potassium hydroxide	0
Ammonium chloride	•	Hydraulic oil (Mineral)	0	Potassium iodide	0
Ammonium hydroxide	•	Hydraulic oil (Phosphate ester type)	0	Potassium nitrate	0
Amyl acetate	0	Hydraulic oil (Glycol based)	•	Potassium permanganate	0
Aniline		Hydrazine	•	Propane	0
Asphalt	•	Hydrochloric acid 20%	0	Pyridine	
Barium chloride	•	Hydrochloric acid 36%		R 134a	0
Benzene	0	Hydrofluoric acid 10%		Salicylic acid	•
Benzoic acid	•	Hydrofluoric acid 40%		Silicone oil	0
Boric acid	•	Hydrogen	•	Soap	0
Вогах	•	Isobutane	0	Sodium aluminate	0
Butane	•	Isooctane	•	Sodium bicarbonate	•
Butyl alcohol	•	Isopropyl alcohol	0	Sodium bisulphite	0
Butyric acid	•	Kerosene	0	Sodium carbonate	0
Calcium chloride	•	Lead acetate	0	Sodium chloride	0
Calcium hydroxide	•	Lead arsenate	0	Sodium cyanide	0
Carbon dioxide	•	Magnesium sulphate	0	Sodium hydroxide	0
Carbon disulphide		Malic acid	0	Sodium sulphate	0
Chloroform	0	Methane	0	Sodium sulphide	0
Chlorine, dry		Methanol	•	Starch	0
Chlorine, wet		Methyl chloride	0	Steam	0
Chromic acid		Methylene dichloride		Stearic acid	0
Citric acid	•	Methyl ethyl ketone		Sugar	0
Copper acetate	•	Milk	0	Sulphuric acid 20%	•
Creosote		Mineral oil type ASTM no.1	•	Sulphuric acid 96%	
Cresol	0	Naphtha	0	Tar	0
Cyclohexanol	•	Nitric acid 20%	0	Tartaric acid	0
Cyclohexanone	0	Nitric acid 40%		Toluene	0
Decalin	0	Nitric acid 96%		Transformer oil	0
Dibenzyl ether		Nitrobenzene		Trichlorethylene	0
Dimethyl formamide		Nitrogen	0	Water	0
Dowtherm	0	Octane	0	White spirit	0
Ethane	•	Oleic acid	•	Xylene	0
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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.