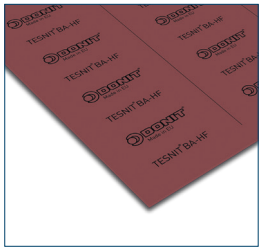
TESNIT® BA-HF



TESNIT® BA-HF is gasket material with controlled swell properties and is suitable for light-to-medium loads. Very suitable material to compensate irregularities on flange surfaces.

PROPERTIES

Composition	Aramid and glass fibers, NR.
Colour	Red
Properties	Good resistance to water, steam, air, gases and non-aggressive media.
Appropriate industries	Water supply industry, gas supply industry

SURFACE TREATMENTS

Surface treatment is 2AS.
Other surface treatments such as graphite and PTFE are available on request.

DIMENSIONS OF STANDARD SHEETS

Sheet size (mm): 1500 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/cm³	1.7
Compressibility	ASTM F36J	%	15
Recovery	ASTM F36J	%	55
Tensile strength	ASTM F152	MPa	9
Stress resistance	DIN 52913		
16 h, 50 MPa, 175 °C		MPa	15
16 h, 50 MPa, 300 °C		MPa	/
Specific leak rate	DIN 3535-6	mg/(s·m)	0.02
Thickness increase	ASTM F146		
Oil IRM 903, 5 h, 150 °C		%	50
ASTM Fuel B, 5 h, 23 °C		%	32
Compression modulus	DIN 28090-2		
At room temperature: ε_{KSW}		%	/
At elevated temperature: $\varepsilon_{WSW/200\ °C}$		%	/
Percentage creep relaxation	DIN 28090-2		
At room temperature: ε_{KRW}		%	/
At elevated temperature: $\varepsilon_{WRW/200\ °C}$		%	/
Max. operating conditions			
Peak temperature		°C/°F	220/428
Continuous temperature		°C/°F	200/392
- with steam		°C/°F	170/338
Pressure		bar/psi	40/580

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-HF
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 dioxide	⊕
Carbon disulphide	⊖
Chloroform	⊖
Chlorine, dry	⊖
Chlorine, wet	⊖
Chromic acid	⊖
Citric acid	⊕
Copper acetate	⊕
Creosote	⊖
Cresol	⊖
Cyclohexanol	⊖
Cyclohexanone	⊖
Decalin	⊖
Dibenzyl ether	⊖
Dimethyl formamide	⊖
Dowtherm	⊖
Ethane	?

	BA-HF
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	?

	BA-HF
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	⊖
R 134a	⊖
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	?

All information and data quoted are based on years of experience in production and operation of sealing elements. The data may not be used to support any warranty claims. This edition cancels all previous issues and is a subject to change without further notice.

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