



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	DIMENSIONS OF STANDARD SHEETS
Surface treatment is 2AS. Other surface treatments such as graphite and PTFE are available on request.	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.
	<b>Tolerances:</b> +/- 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		МРа	15
16 h, 50 MPa, 300 °C		МРа	/
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: $\boldsymbol{\mathcal{E}}_{ extsf{ksw}}$		%	/
At elevated temperature: $\epsilon_{_{ ext{WSW}/200^{\circ} ext{C}}}$		%	/
Percentage creep relaxation	DIN 28090-2		
At room temperature: $\boldsymbol{\epsilon}_{_{KRW}}$		%	/
At elevated temperature: $m{arepsilon}_{_{WRW/200^{\circ}C}}$		%	/
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.

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Acetamide	Ð	Ethyl acetate	0	Oleum
Acetic acid 10%	•	Ethyl alcohol	•	Oxalic acid
Acetic acid 100%	•	Ethyl chloride		Oxygen
Acetic ester	0	Ethylene	•	Palmitic acid
Acetone	0	Ethylene glycol	•	Pentane
Acetylene	•	Formic acid 10%	•	Perchloroethylene
Adipic acid	•	Formic acid 85%	0	Pheno
Air	•	Formaldehyde	•	Phosphoric acid
Alum	•	Freon 12		Potassium acetate
Aluminium acetate	•	Freon 22		Potassium bicarbonate
Aluminium chlorate	Ð	Fuel oil	0	Potassium carbonate
Aluminium chloride	•	Gasoline	•	Potassium chloride
Ammonia	0	Glycerine	•	Potassium dichromate
Ammonium bicarbonate	•	Heptane		Potassium hydroxide
Ammonium chloride	•	Hydraulic oil (Mineral)		Potassium iodide
Ammonium hydroxide	•	Hydraulic oil (Phosphate ester type)	0	Potassium nitrate
Amyl acetate	0	Hydraulic oil (Glycol based)	•	Potassium permanganate
Aniline	•	Hydrazine	•	Propane
Asphalt	•	Hydrochloric acid 20%	$\bullet$	Pyridine
Barium chloride	•	Hydrochloric acid 36%		R 134
Benzene	•	Hydrofluoric acid 10%		Salicylic aci
Benzoic acid	•	Hydrofluoric acid 40%	•	Silicone o
Boric acid	•	Hydrogen	•	Soa
Borax	•	Isobutane	0	Sodium aluminat
Butane	0	Isooctane	0	Sodium bicarbonat
Butyl alcohol	0	Isopropyl alcohol	•	Sodium bisulphit
Butyric acid	0	Kerosene	Đ	Sodium carbonat
Calcium chloride	0	Lead acetate	Ð	Sodium chlorid
Calcium hydroxide	•	Lead arsenate	•	Sodium cyanid
Carbon dioxide	Đ	Magnesium sulphate	•	Sodium hydroxid
Carbon disulphide	•	Malic acid	•	Sodium sulphat
Chloroform	•	Methane	•	Sodium sulphid
Chlorine, dry	•	Methanol	0	Starc
Chlorine, wet		Methyl chloride		Stean
Chromic acid	Ó	Methylene dichloride	Ó	Stearic aci
Citric acid	Ō	Methyl ethyl ketone	Ō	Suga
Copper acetate	Õ	Milk	ō	Sulphuric acid 20%
Creosote		Mineral oil type ASTM no.1	0	Sulphuric acid 96%
Cresol		Naphtha		Та
Cvclohexapol		Nitric acid 20%		Tartaric aci
Cyclohexanone		Nitric acid 40%		Toluen
Decelie		Nitric acid 40%		Transformer ei
Dibaamid atk		Nitroborson		Trichlorothulan
Dimethul forms		Nitropenzene		inchorethylen
Dimetnyl formamide		Nitrogen		Wate
Dowtnerm		Uctane		White spiri

Recommended
Recommendation depends on operating conditions
Not recommended

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