# **TESNIT® BA-C**



TESNIT<sup>®</sup> BA-C gasket material with a vulcanized CSM matrix combines very good chemical and aging resistance, and low gas permeability. It can be used for sealing strongly acidic and alkaline solutions and gases, ozonized or chlorinated water, and the like.

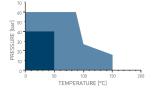


Composition	Aramid fibers, inorganic fillers, CSM binder
Color	Beige
Approvals and compliances	Please inquiry
Sheet dimensions	Sheet size (mm): 1500 x 1500 Thickness (mm): 0.5   0.8   1.0   1.5   2.0   3.0 Other dimensions and thicknesses are available on request.
Tolerances	Length and width: $\pm$ 5 % Thickness $\leq$ 1.0 mm: $\pm$ 0.1 mm Thickness > 1.0 mm: $\pm$ 10 %
Surface finish	Surface finish is 4AS. Optional graphite or PTFE finish on request

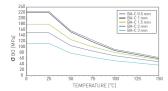
#### TECHNICAL DATA Typical values for 2 mm thickness

DIN 28090-2	g/cm <sup>3</sup>	1.9
ASTM F36J	%	10
ASTM F36J	%	58
ASTM F1512	MPa	13
DIN 52913		
	MPa	22
	MPa	/
DIN 3535-6	mg/(s.m)	0.05
ASTM F146		
	%	8
	%	9
DIN 28090-2		
	%	/
	%	/
DIN 28090-2		
	%	/
	%	/
	°C/°F	200/392
	°C/°F	150/302
	bar/psi	60/870
	ASTM F36J ASTM F1512 DIN 52913 DIN 3535-6 ASTM F146 DIN 28090-2	ASTM F36J % ASTM F36J % ASTM F36J % ASTM F1512 MPa DIN 52913 MPa DIN 3535-6 mg/(s.m) ASTM F146 % % DIN 28090-2 % DIN 28090-2 % DIN 28090-2 % DIN 28090-2 % 0% DIN 28090-2 % 0% DIN 28090-2 % 0%

#### P-T diagram EN 1514-1, Type IBC, PN 40, DIN 28091-2 / 3.8, 2 mm



## **O**BO DIAGRAMS DIN 28090-1



should only be regarded as a guidance for the proper gasket assembly. In general, thinner gaskets exhibit better P-T properties.

which can be simultaneously applied to a given gaskets

thickness, size and tightness class. Given the wide variety

of gasket applications and service conditions, these values

P-T diagrams indicate the maximum permissible combination of internal pressure and service temperature

oBO diagrams represent oBO 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.

- General suitability applying common installation practices under the condition of chemical compatibility.
- Maximum performance is ensured through appropriate measures for joint design and gasket installation. Consultation is recommended. Limited application area. Technical consultation is mandatory
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### 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.

Acetamide	+	Calcium chloride	+	Formamide	0	Methyl ethyl ketone (MEK)	0	Seawater/brine	
Acetic ester	+	Calcium hydroxide	+	Formic acid, 10%	+	N-Methyl-pyrrolidone (NMP)	0	Silicones (oil/grease)	
Acetic acid, 100% (Glacial)	+	Carbon dioxide (gas)	+	Formic acid, 85%	+	Milk	+	Soaps	
Acetone	0	Carbon monoxide (gas)	+	Formic acid, 100%	+	Mineral oil type ASTM 1	+	Sodium aluminate	
Acetonitrile	-	Castor oil	+	Freon-12 (R-12)	+	Motor oil	0	Sodium bicarbonate	
Acetylene (gas)	0	Acetamide	0	Freon-134a (R-134a)	+	Naphtha	0	Sodium bisulfite	
Acid chlorides	0	Chlorine (dry)	+	Freon-22 (R-22)	+	Nitric acid, 10%	+	Sodium carbonate	
Acrylic acid	0	Chlorine (in water)	0	Fruit juices	+	Nitric acid, 65%	0	Sodium chloride	
Acrylonitrile	-	Chlorine, 2% in water	+	Fuel oil	+	Nitrobenzene	-	Sodium cyanide	
Adipic acid	+	Chlorobenzene	-	Gasoline	+	Nitrogen (Gas)	+	Sodium hydroxide	
Air (gas)	+	Chloroform	0	Gelatin	+	Nitrous gases (NOx)	+	Sodium hydroxyde, 50%, rt	
Alcohols	+	Chloroprene	-	Glycerine (Glycerol)	+	Octane	+	Sodium hypochlorite (Bleach)	
Aldehydes	0	Chlorosilanes	-	Glycols	0	Oils (Essential)	+	Sodium silicate (Water glass)	
Alum	+	Chromic acid	0	Helium (gas)	+	Oils (Vegetable)	+	Sodium sulfate	
Aluminium acetate	+	Citric acid	+	Heptane	+	Oleic acid	+	Sodium sulfide	1
Aluminium chlorate	+	Copper acetate	+	Hydraulic oil (Glycol based)	+	Oleum (Sulfuric acid, fuming)	0	Starch	
Aluminium chloride	+	Copper sulfate	+	Hydraulic oil (Mineral)	+	Oxalic acid	+	Steam	T
Aluminium sulfate	+	Creosote	-	Hydraulic oil (Phosphate ester-based)	0	Oxygen (gas)	+	Stearic acid	T
Amines	0	Cresols (Cresylic acid)	0	Hydrazine	+	Palmitic acid	+	Styrene	
Ammonia (Gas)	+	Cyclohexane	+	Hydrocarbons	+	Paraffin oil	+	Sugars	Т
Ammonium bicarbonate	+	Cyclohexanol	+	Hydrochloric acid, 10%	+	Pentane	+	Sulfur	T
Ammonium chloride	+	Cyclohexanone	0	Hydrochloric acid, 37%	+	Perchloroethylene	0	Sulfur dioxide (Gas)	T
Ammonium hydroxide	+	Decalin	+	Hydrofluoric acid, 10%	+	Petroleum (Crude oil)	+	Sulfuric acid, 10%	T
Amyl acetate	0	Dextrin	+	Hydrofluoric acid, 48%	-	Phenol (Carbolic acid)	0	Sulfuric acid, 20%	
Anhydrides	0	Dibenzyl ether	-	Hydrogen (gas)	+	Phosphoric acid, 40%	+	Sulfuric acid, 98%	
Aniline	-	Dibutyl phthalate	-	Iron sulfate	+	Phosphoric acid, 85%	+	Sulfuryl chloride	
Anisole	-	Diesel oil	+	Isobutane (Gas)	+	Phthalic acid	+	Tar	
Argon (gas)	+	Diethyl ether	+	Isooctane	+	Potassium acetate	+	Tartaric acid	
Asphalt	+	Dimethylacetamide (DMA)	-	Isoprene	+	Potassium bicarbonate	+	Tetrahydrofuran (THF)	
Barium chloride	+	Dimethylformamide (DMF)	-	Isopropyl alcohol (Isopropanol)	+	Potassium carbonate	+	Titanium tetrachloride	
Benzaldehyde	-	Dioxane	-	Kerosene	+	Potassium chloride	+	Toluene	
Benzene	+	Diphyl (Dowtherm A)	+	Ketones	0	Potassium cyanide	+	2,4-Toluenediisocyanate	
Benzoic acid	+	Esters	0	Lactic acid	+	Potassium dichromate	+	Transformer oil (Mineral type)	Т
Bio-diesel	+	Ethane (Gas)	+	Lead acetate	+	Potassium hydroxide	+	Trichloroethylene	
Bio-ethanol	+	Ethers	0	Lead arsenate	+	Potassium hydroxide, 20%, 80°C	+	Vinegar	
Black liquor	+	Ethyl acetate	0	Magnesium sulfate	+	Potassium iodide	+	Vinyl chloride (gas)	Т
Borax	+	Ethyl alcohol (Ethanol)	+	Maleic acid	+	Potassium nitrate	+	Vinylidene chloride	
Boric acid	+	Ethyl cellulose	+	Malic acid	+	Potassium permanganate	+	Water	Т
Butadiene (gas)	+	Ethyl chloride (gas)	+	Methane (Gas)	+	Propane (gas)	+	White spirits	
Butane (gas)	+	Ethylene (gas)	+	Methyl alcohol (Methanol)	+	Propylene (gas)	+	Xylenes	Τ
Butyl alcohol (Butanol)	+	Ethylene glycol	+	Methyl chloride (Gas)	0	Pyridine	-	Xylenol	Τ
Butyric acid	+	Formaldehyde (Formalin)	+	Methylene dichloride	0	Salicylic acid	+	Zinc sulfate	T

All information and data quoted are based upon decades 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.

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