SCHEDA TECNICA/*TECHNICAL*

Tesnit BA-M

(Particolari/Guarnizioni realizzate con processo di taglio da lastra con queste caratteristiche)

Engineered bio-soluble mineral fibres, aramid fibres, inorganic fillers and NBR binder. Material with excellent thermal resistance and mechanical properties (Especialy bolt torque retention), which allow to be utilised in a very wide range of applications,particulary steam system.

APPLICATIONS

Potable water, Steam, Gas, Petrolchemical, food,paper and cellulose industry, shipbuilding, powerplat, refrigeration and cooling,heating system,hight temp application.

TECHNICAL DATA

Colour			Gray/green
Density	DIN 28090-2	G/cm3	1,7
Compressibility	ASTM F36J	%	10
Recovery	ASTM F36J	%	60
Tensile strengthx	ASTM F152	MPa	13
Stress Resistance: 16h, 50MPa, 175°C 16h, 50MPa, 300°C	DIN 52913	 Mpa MPa	 35 27
Specific leak rate	DIN 3535-6	Mg/(s - m)	0,05
Tickness increase: Oil IRM 903, 5h, 150°C ASDTM Fuel B, 5h, 23°C	ASTM F146	 % %	 5 6
Compression modulus: At room temperature:ε_{KRW} At elevated temperature:$\varepsilon_{WRW/200°C}$	DIN 28090-2	 % %	 10,8 11,0
Max.operating Condiction: Peak temperature Continuous temperature -with steam Pressure		 °C °C °C bar	 440 350 300 120

SUPPLY CONDITIONS

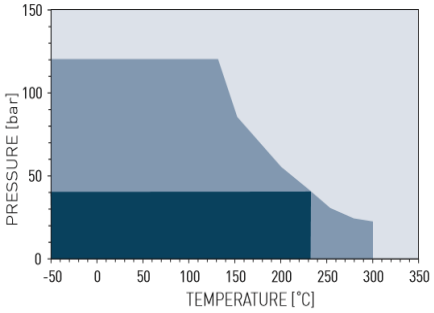
Antistick surface (4AS).

Tolerances:

- On thickness up to 1 mm (+/-0,1 mm)
- On thickness above 1.0 mm (+/-10%)

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.

ATTENZIONE: Valori ricavati da test eseguiti su normale giunto flangiato dove la superficie di appoggio è molto maggiore dello spessore. Per guarnizioni dalla fascia piccolina (Esempio raccorderia, ...) occorre fare i test sul campo.

Values derived from tests performed on a normal flanged joint where the surface of the support is much greater than the thickness. For small-band gaskets (for example fittings, ...), specific application tests must be performed.

NOTE SULLE OMOLOGAZIONI IN GENERE AL SEGUENTE LINK:
https://st.laguarnizione.it/?ID=DOC0003
DICHIARAZIONI GENERICHE (Reach, Rosh,EUDR , BPA free, ...) Al seguente link:
https://st.laguarnizione.it/?ID=DOC0004

CHEMICAL RESISTANCE CHART

The racommendations made here are intended to be a guideline for selection of the suitable gasket quality. Because the function and durability of the products depend upon a number of factor, the data may not be used to support any warranty claims.

- \+ Raccomanded
- ? Raccomendation depends on operating condiction
- \- Not racommended

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