

(ID Scheda Tecnica:007)

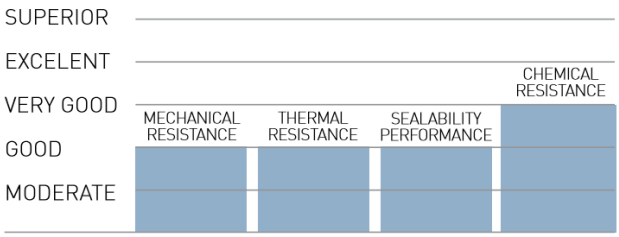
SCHEDA TECNICA**(Rev.2020)**

FASIT OIL/BA-50

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

Material with good thermal and chemical resistance, which makes it appropriate for use in a wide range of applications. Potable water supply and shipbuilding. Composition:Aramid fibres, inorganic fillers, NBR Binder. Optional steel wire mesh insert on request. Colour light green.

PROPERTIES



APPROPRIATE INDUSTRIES & APPLICATIONS

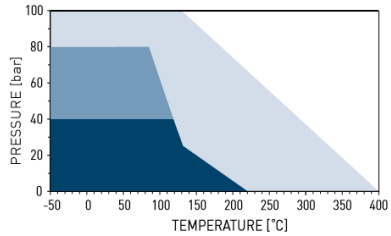
- GENERAL PURPOSE
- WATER SUPPLY
- POTABLE WATER SUPPLY
- GAS SUPPLY
- FOOD INDUSTRY
- AUTOMOTIVE AND ENGINE BUILDING INDUSTRY
- SHIPBUILDING

TECHNICAL DATA Typical values for a thickness of 2 mm

Density	DIN 28090-2	g/cm³	1.8
Compressibility	ASTM F36J	%	9
Recovery	ASTM F36J	%	55
Tensile strength	ASTM F152	MPa	11
Stress resistance	DIN 52913		
16 h, 50 MPa, 175 °C		MPa	25
16 h, 50 MPa, 300 °C		MPa	/
Specific leak rate	DIN 3535-6	mg/(s·m)	0.07
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: ε_{KSW}		%	8.5
At elevated temperature: $\varepsilon_{WSW/200\,°C}$		%	25
Percentage creep relaxation	DIN 28090-2		
At room temperature: ε_{KRW}		%	5.1
At elevated temperature: $\varepsilon_{WRW/200\,°C}$		%	1.2
Max. operating conditions			
Peak temperature		°C/°F	280/536
Continuous temperature		°C/°F	220/428
- with steam		°C/°F	180/356
Pressure		bar/psi	80/1160

P-T DIAGRAM

EN 1514-1, Type IBC, PN 40, DIN 28091-2 / 3.8, 2.0 mm



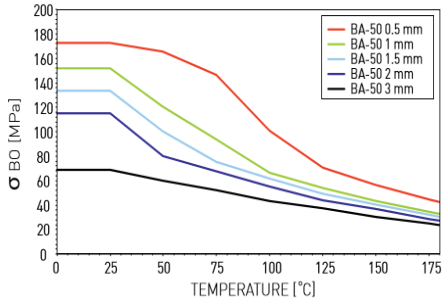
- General suitability - Under common installation practices and chemical compatibility.
- Conditional suitability - Appropriate measures ensure maximum performance for joint design and gasket installation. Technical consultation is recommended.
- Limited suitability - Technical consultation is mandatory.

P-T diagrams indicate the maximum allowed combination of internal pressure and service temperature which can be applied simultaneously for a given gasket depending on its material type, thickness, size and tightness class. Given the variety of gasket applications and service conditions, these values should only be regarded as guidance for the proper gasket assembly. In general, thinner gaskets exhibit better P-T properties.

Surface finish: Surface finish is 4AS. Optional graphite or PTFE finish on request.
Standard sheet size (mm): 1500x1500 | 3000 x 1500 | 4500x1500 (Tollerance +/-5%)
Standard sheet tichkness (mm): 0,5 (+/-0,1)| 1 (+/-0,1)| 1,5 (+/-0,15) | 2 (+/-0,2) | 3 (+/-0,3)

σ_{BO} DIAGRAM

DIN 28090-1



σ_{BO} diagrams represents σ_{BO} values for different gasket material thicknesses. These values indicate the maximum in-service compressive pressures which can be applied on the compressed gasket area in-service without destructing damaging the gasket material.

GASKET FACTORS

	TICKNESS		
	1,5(mm)	2(mm)	3(mm)
y (MPa) m	20 2,5	22 4	25 5

Follow the recommended installation procedures by regulations. If in doubt please contact Us or visit the web site:

http://www.laguarnizione.it/php/it/istruzioni.php

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.

OMOLOGAZIONI

I manufatti da noi realizzati sono ottenuti con processo di taglio a freddo che non altera le proprietà chimico/fisiche del materiale. E' però un processo industriale NON asettico che può lasciare traccia di polveri (Talco, ...) che non ne alterano le proprietà. Si rende quindi necessaria la pulizia/sterilizzaione prima del suo utilizzo dove necessario.

ATTENZIONE: Le guarnizioni ed i nostri manufatti in genere non sono dispositivi di sicurezza. Ove siano presenti pericoli per la sicurezza delle persone (alte pressioni,alte temperature, fluidi pericolosi, ...) prevedere dispositivi aggiuntivi di sicurezza certificati.

E' compito del progettista dell'impianto scegliere il tipo di materiale adeguato e valutare eventuali pericoli di rottura del manufatto (Guarnizione, bandella, paracolpi, ...) e prevenirli.

Seguono le omologazioni disponibili:

DIN-DVGW DIN3535-6
Registration number:NG-5123BL0583
Date of Expiry:20/12/2020

SVGW DIN 3535-6

RE 1935/2004 and GMP for use in gasket for pipe Classification 4 (very small contact area and relatively short contact time)
Ther material and articles with natural and synthetic rubber for food contact are tested in accordance with BfR Directive XXI. it is determined in what area (Classification 1 to 4) the material is used.
Gasket for pipes are classified in category 4 (see BfR directive XXI - category 4, point 2.3.1 definition.

(DISPONIBILE PROSSIMAMENTE) RE.2026/2006 (G.M.P.)
Al fine di poter garantire il giusto processo produttivo richiesto dai regolamenti europei per i materiali a contatto con alimenti in fase d'ordine occorre sempre indicare che il materiale richiesto è per contatto con alimenti. In assenza di tale richiesta esplicita non verranno eseguiti i necessari controlli per garantire il processo e la tracciabilità della lavorazione.

Pulire e sterilizzare il manufatto prima dell'utilizzo

WRAS
Approval number:1509514 Test Report:M105978
Scadenza:Settembre 2020
For use with water up to 85°C. For use only as a jointing/gasket having been tested at reduced surface area to volume ratio.

TZW ELL

TA-Luft (VDI 2440)

D.M.174 del 6 Aprile 2004
Laboratori di riferiemnto: IREN LAB
Rapporto di prova n°RE0189 del 17/01/2017
In base al risultato effettuato e limitatamente al controllo della migrazione globale di cui all'allegato III del DM 6/4/2004 n.174 "Regolamento concernente i materiali ed oggetti che possono essere utilizzati negli impianti fissi di captazione, trattamento, adduzione e distribuzione delle acque destinate al consumo umano" il materiale è CONFORME.

Pulire e sterilizzare il manufatto prima dell'utilizzo

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 RESISTANZE 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

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	+
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)	+		

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.

Si consiglia di controllare sempre eventuali additivi/sostanze chimoiche presenti anche se in piccole percentuali.

Materiale compatibile con GLICOLE PROPILENICO.

ATTENZIONE: Materiale NON compatibile con Perossido di Idrogeno anche diluito. Con perossido di idrogeno si consiglia l'utilizzo di materiali a base PTFE.