ID MATERIALE: 086

TECHNICAL DATA SHEET (Rev.2016)

CARBO FIBER/BA-CF

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

Basis

Carbon fibres, NBR.

General Properties and application

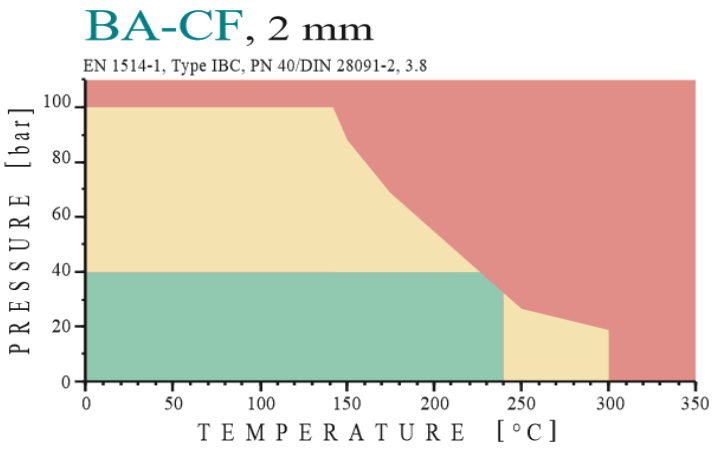
Gasket material with excellent resistence to steam and strong alkaline media. Gasket material for chemical and petrolchemical industry.

Technical data (Thickness 2.0 mm)

Compressibility	ASTM F36/J	9	%
Recovery	ASTM F36/J	55	%
Tensile strenght	DIN 52910	8	MPa
Stress resistance	DIN52913		
– 16h, 300°C, 50MPa		25	Mpa
– 16h, 175°C, 50MPa		30	MPa
Specific Leak Rate	DIN3535/6	0,05	mg/(s m)
Thickness increase	ASTM F146		
– Oil IRM 903, 5h, 150°C		7	%
Max operating condictions			
– Peak temperature		400	°C
– Continuous temperature		300	°C
– Continuous temperature with steam		280	°C
Pressure		100	bar

The temperatureand pressure represent maximum values and should not be used simultaneously. They are give only for guidance, since they not only on the type of gasket material but also on the assembly condiction. Very important factor are thickness of material, nature of service medium, type of flange, surface stress. Steam application requires special consideration.

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



GASKET FACTORS

thickness(mm)	ASME-EN DIN28090			PVRC-ROTT			Max.Assembly stress
	y / σvu (MPa)	$m_{/1}$	$m_{/0,1}$	Gb (MPa)	a	Gs (MPa)	σvo / Q_{max} (MPa)
1,5	20	2,5					
2	22	3					
3	25	4					

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.

COMPATIBILITY

- Recommended
- Recommendation depends on operating conditions
- Not recommended

Acetamide	Ethyl acetate	Oleum
Acetic acid 10%	Ethyl alcohol	Oxalic acid
Acetic acid 100%	Ethyl chloride	Oxygen
Acetic ester	Ethylene	Palmitic acid
Acetone	Ethylene glycol	Pentane
Acetylene	Formic acid 10%	Perchloroethylene
Adipic acid	Formic acid 85%	Phenol
Air	Formaldehyde	Phosphoric acid
Alum	Freon 12	Potassium acetate
Aluminium acetate	Freon 22	Potassium bicarbonate
Aluminium chlorate	Fuel oil	Potassium carbonate
Aluminium chloride	Gasoline	Potassium chloride
Ammonia	Glycerine	Potassium dichromate
Ammonium bicarbonate	Heptane	Potassium hydroxide
Ammonium chloride	Hydraulic oil (Mineral)	Potassium iodide
Ammonium hydroxide	Hydraulic oil (phosphate esther type)	Potassium nitrate
Amyl acetate	Hydraulic oil (glycol based)	Potassium permanganate
Aniline	Hydrazine	Propane
Asphalt	Hydrochloric acid 20%	Pyridine
Barium chloride	Hydrochloric acid 36%	Salicylic acid
Benzene	Hydrofluoric acid 10%	Silicone oil
Benzoic acid	Hydrofluoric acid 40%	Soap
Boric acid	Hydrogen	Sodium aluminate
Borax	Isobutane	Sodium bicarbonate
Butane	Isooctane	Sodium bisulphite
Butyl alcohol	Isopropyl alcohol	Sodium carbonate
Butyric acid	Kerosene	Sodium chloride
Calcium chloride	Lead acetate	Sodium cyanide
Calcium hydroxide	Lead arsenate	Sodium hydroxide
Carbon disulphide	Magnesium sulphate	Sodium sulphate
Carbon dioxide	Malic acid	Sodium sulphide
Chloroform	Methane	Starch
Chlorine, dry	Methanol	Steam
Chlorine, wet	Methyl chloride	Stearic acid
Chromic acid	Methylene dichloride	Sugar
Citric acid	Methyl ethyl ketone	Sulphuric acid 20%
Copper acetate	Milk	Sulphuric acid 96%
Creosote	Mineral oil type ASTM no.1	Tar
Cresol	Naphtha	Tartaric acid
Cyclohexanol	Nitric acid 20%	Toluene
Cyclohexanone	Nitric acid 40%	Transformer oil
Decaline	Nitric acid 96%	Trichlorethylene
Dibenzyl ether	Nitrobenzene	Water
Dimethyl formamide	Nitrogen	White Spirit
Dowtherm	Octane	Xylene
Ethane	Oleic acid	