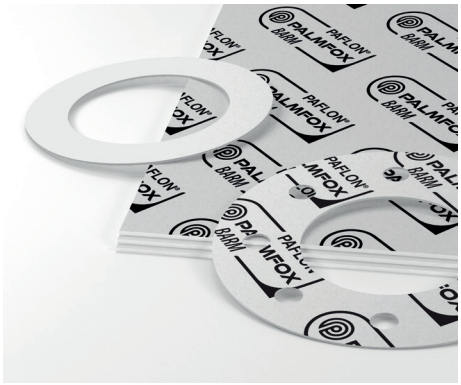
PALMFOX
All Sealling Solution

PTFE Sheet
PAFLON-BARM ®
(PTFE with Barium Sulfate)

PAFLON BARM is another PTFE gasket reinforced with Barium Sulfate. Good chemical resistance in the case of being subjected to strong alkalis has made it capable to be applied in caustic environments. This style has also great mechanical behavior at low and medium loads and temperatures.



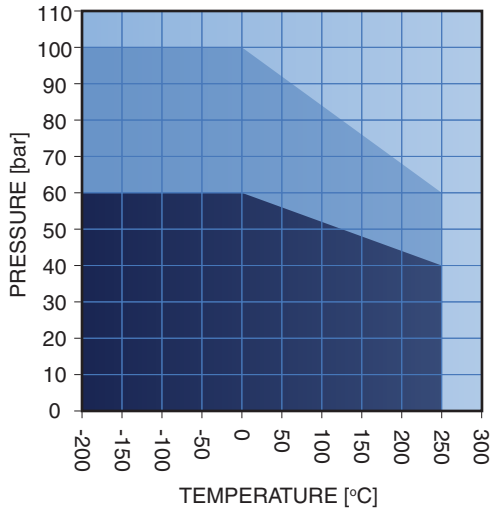
TECHNICAL DATA:

TYPICAL VALUES FOR A THICKNESS OF 1.5 MM				
Compressibility	ASTM F 36 J	-	%	4
Recovery	ASTM F 36 J	-	%	40
Stress relaxation	DIN 52913	30 MPa, 16 hours at 150˚C	MPa	20
Cold/Hot compression	50 MPa	Thickness decrease at 23˚C Thickness decrease at 260˚C	% %	10 40
Density	-	-	g/cm^3	3.0
Temperature (Max.)	-	-	˚C (˚F)	+260 (+500)
Temperature (Min.)	-	-	˚C (˚F)	-200 (-320)
Pressure (Max.)	-	-	bar (psi)	150 (2175)

APPLICATIONS:

Pharmaceutical industry (blood components manufacturing), Food and beverage, Liquid chlorine, liquid and gaseous oxygen.

P-T DIAGRAM



■ In the darker shaded region (dark blue) the gasket is generally applicable for different chemical substances and is highly able to offer chemical compatibility.

■ In workplaces with the conditions this area, technical assessment of gasket material is recommended.

■ In the light blue region, installation of gasket without technical assessment should not be carried out.

DIMENSIONS

Size (mm):	1000*1000 mm I 1500*1500 mm I 2000*1500 mm I 3000*1500 mm
Thickness (mm):	0.5, 0.8, 1.0, 1.5, 2.0, 3.0, 4.0, 5.0
Tolerances (mm):	Up to 1.0 mm thickness: ±0.1mm Above 1.0 mm thickness: ±10% Length & Width: ±5%
Surface finish:	Color: Light Gray

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CHEMICAL RESISTANCE CHART

PAFLON-BARM		PAFLON-BARM	
Acetamide	✓	Black liquor	✓
Acetic acid, 10%	✓	Borax	✓
Acetic acid, 100% (Glacial)	✓	Boric acid	✓
Acetone	✓	Butadiene (gas)	✓
Acetonitrile	✓	Butane (gas)	✓
Acetylene (gas)	✓	Butyl alcohol (Butanol)	✓
Acid chlorides	✓	Butyric acid	✓
Acrylic acid	✓	Calcium chloride	✓
Acrylonitrile	✓	Calcium hydroxide	✓
Adipic acid	✓	Carbon dioxide (gas)	✓
Air (gas)	✓	Carbon monoxide (gas)	✓
Alcohols	✓	Cellosolve	✓
Aldehydes	✓	Chlorine (gas)	✓
Alum	✓	Chlorine (in water)	✓
Aluminium acetate	✓	Chlorobenzene	✓
Aluminium chlorate	✓	Chloroform	✓
Aluminium chloride	✓	Chloroprene	✓
Aluminium sulfate	✓	Chlorosilanes	✓
Amines	✓	Chromic acid	✓
Ammonia (gas)	✓	Citric acid	✓
Ammonium bicarbonate	✓	Copper acetate	✓
Ammonium chloride	✓	Copper sulfate	✓
Ammonium hydroxide	✓	Creosote	✓
Amyl acetate	✓	Cresols (Cresylic acid)	✓
Anhydrides	✓	Cyclohexane	✓
Aniline	✓	Cyclohexanol	✓
Anisole	✓	Cyclohexanone	✓
Argon (gas)	✓	Decalin	✓
Asphalt	✓	Dextrin	✓
Barium chloride	✓	Dibenzyl ether	✓
Benzaldehyde	✓	Dibutyl phthalate	✓
Benzene	✓	Dimethylacetamide (DMA)	✓
Benzoic acid	✓	Dimethylformamide (DMF)	✓
Bio-diesel	✓	Dioxane	✓
Bio-ethanol	✓	Diphyl (Dowtherm A)	✓

✓ Suitable | ? Depends on operating conditions | ✗ Unsuitable | i No data or insufficient evidence

CHEMICAL RESISTANCE CHART

PAFLON-BARM		PAFLON-BARM	
Esters	✓	Iron sulfate	✓
Ethane (gas)	✓	Isobutane (gas)	✓
Ethers	✓	Isooctane	✓
Ethyl acetate	✓	Isoprene	✓
Ethyl alcohol (Ethanol)	✓	Isopropyl alcohol (Isopropanol)	✓
Ethyl cellulose	✓	Kerosene	✓
Ethyl chloride (gas)	✓	Ketones	✓
Ethylene (gas)	✓	Lactic acid	✓
Ethylene glycol	✓	Lead acetate	✓
Formaldehyde (Formalin)	✓	Lead arsenate	✓
Formamide	✓	Magnesium sulfate	✓
Formic acid, 10%	✓	Maleic acid	✓
Formic acid, 85%	✓	Malic acid	✓
Formic acid, 100%	✓	Methane (gas)	✓
Freon-12 (R-12)	✓	Methyl alcohol (Methanol)	✓
Freon-134a (R-134a)	✓	Methyl chloride (gas)	✓
Freon-22 (R-22)	✓	Methylene dichloride	✓
Fruit juices	✓	Methyl ethyl ketone (MEK)	✓
Fuel oil	✓	N-Methyl-pyrrolidone (NMP)	✓
Gasoline	✓	Milk	✓
Gelatin	✓	Mineral oil (ASTM no.1)	✓
Glycerine (Glycerol)	✓	Motor oil	✓
Glycols	✓	Naphtha	✓
Helium (gas)	✓	Nitric acid, 10%	✓
Heptane	✓	Nitric acid, 65%	✓
Hydraulic oil (Glycol based)	✓	Nitrobenzene	✓
Hydraulic oil (Mineral type)	✓	Nitrogen (gas)	✓
Hydraulic oil (Phosphate ester based)	✓	Nitrous gases (NOx)	✓
Hydrazine	✓	Octane	✓
Hydrocarbons	✓	Oils (Essential)	✓
Hydrochloric acid, 10%	✓	Oils (Vegetable)	✓
Hydrochloric acid, 37%	✓	Oleic acid	✓
Hydrofluoric acid, 10%	✓	Oleum (Sulfuric acid, fuming)	✓
Hydrofluoric acid, 48%	✓	Oxalic acid	✓
Hydrogen (gas)	✓	Oxygen (gas)	✓

✓ Suitable ? Depends on operating conditions ✗ Unsuitable i No data or insufficient evidence

CHEMICAL RESISTANCE CHART

PAFLON-BARM		PAFLON-BARM	
Palmitic acid	✓	Sodium hydroxide	?
Paraffin oil	✓	Sodium hypochlorite (Bleach)	✓
Pentane	✓	Sodium silicate (Water glass)	✓
Perchloroethylene	✓	Sodium sulfate	✓
Petroleum (Crude oil)	✓	Sodium sulfide	✓
Phenol (Carbolic acid)	✓	Starch	✓
Phosphoric acid, 40%	✓	Steam	✓
Phosphoric acid, 85%	✓	Stearic acid	✓
Phthalic acid	✓	Styrene	✓
Potassium acetate	✓	Sugars	✓
Potassium bicarbonate	✓	Sulfur	✓
Potassium carbonate	✓	Sulfur dioxide (gas)	✓
Potassium chloride	✓	Sulfuric acid, 20%	✓
Potassium cyanide	✓	Sulfuric acid, 98%	?
Potassium dichromate	✓	Sulfuryl chloride	✓
Potassium hydroxide	✓	Tar	✓
Potassium iodide	✓	Tartaric acid	✓
Potassium nitrate	✓	Tetrahydrofuran (THF)	✓
Potassium permanganate	✓	Thionyl chloride	✓
Propane (gas)	✓	Titanium tetrachloride	?
Propylene (gas)	✓	Toluene	✓
Pyridine	✓	2,4-Toluenediisocyanate	✓
Salicylic acid	✓	Transformer oil (Mineral type)	✓
Seawater/brine	✓	Trichloroethylene	✓
Silicones (oil/grease)	✓	Vinegar	✓
Soaps	✓	Vinyl chloride (gas)	✓
Sodium aluminate	?	Vinylidene chloride	✓
Sodium bicarbonate	✓	Water	✓
Sodium bisulfite	✓	White spirits	✓
Sodium carbonate	✓	Xylenes	✓
Sodium chloride	✓	Xylenol	✓
Sodium cyanide	✓	Zinc sulfate	✓

✓ Suitable ? Depends on operating conditions ✗ Unsuitable ⓘ No data or insufficient evidence