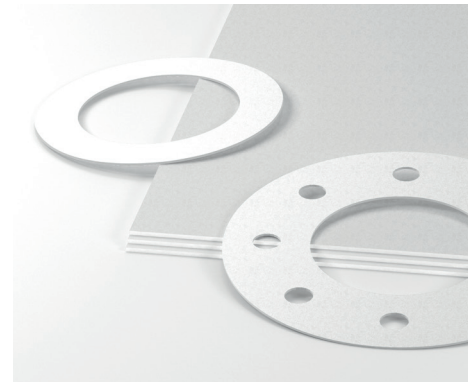


PAFLON EXPAND is a gasket constructed out of mono-direction expanded pure PTFE (Teflon). This sealing system is extremely chemical resistant and is increasingly non-corrosive, non-contaminating, non-wetting, and odorless. Having very soft material, and great electrical and thermal insulation are its other outstanding characteristics.



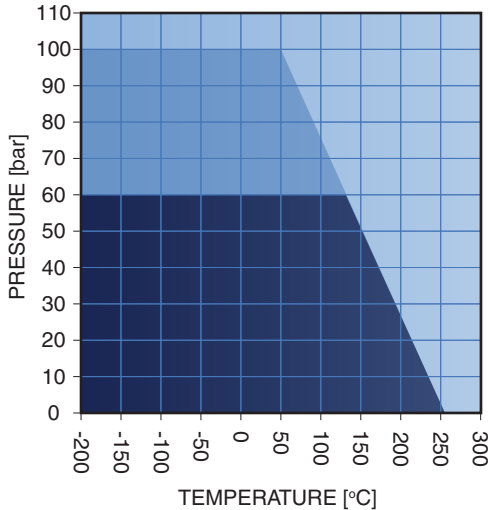
TECHNICAL DATA:

TYPICAL VALUES FOR A THICKNESS OF 2.0 MM				
Compressibility	ASTM F 36 J	-	%	55
Recovery	ASTM F 36 J	-	%	20
Stress relaxation	DIN 52913	30 MPa, 16 hours at 150°C	MPa	15
Cold/Hot compression	25 MPa	Thickness decrease at 23°C	%	35
		Thickness decrease at 150°C	%	32
Density	-	-	g/cm ³	0.9
Temperature (Max.)	-	-	°C (°F)	+260(+500)
Temperature (Min.)	-	-	°C (°F)	-200(-320)
Pressure (Max.)	-	-	bar (psi)	100(2030)

APPLICATIONS:

Most corrosive liquids, vapors and gases.

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 1500*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: ± 0.1 mm Above 1.0 mm thickness: $\pm 10\%$ Length & Width: $\pm 5\%$
Surface finish:	Color: White

CHEMICAL RESISTANCE CHART

PAFLON-EXPAND	PAFLON-EXPAND	PAFLON-EXPAND	
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



No data or insufficient evidence

CHEMICAL RESISTANCE CHART

PAFLON-EXPAND	PAFLON-EXPAND
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



No data or insufficient evidence

CHEMICAL RESISTANCE CHART

PAFLON-EXPAND		PAFLON-EXPAND	
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