

DONIFLON® 2020



DONIFLON® 2020 is structurally enhanced PTFE gasket sheet filled with silica. It has outstanding chemical resistance to various media, same as DONIFLON® 900E; especially recommended for inorganic acids in all concentrations, except hydrofluoric acid. This material has enhanced creep performance compared to plain PTFE material. It is recommended for pharmaceutical and food industries as well as LNG & cryogenic applications.

PROPERTI	ES		SEALABILITY PERFORMANCE	CHEMICAL RESISTANCE
SUPERIOR			1 214 014 4 4 102	
EXCELLENT	MECHANICAL RESISTANCE			
VERY GOOD		THERMAL RESISTANCE		
GOOD				
MODERATE				

APPROPRIATE INDUSTRIES & APPLICATIONS

GENERAL PURPOSE PHA

POTABLE WATER SUPPLY FOOD INDUSTR

GAS SUPPLY

CHEMICAL INDUSTRY

PETROCHEMICAL INDUSTRY

3	PHARMACEUTICAL INDUSTRY
YI	FOOD INDUSTRY
濼	REFRIGERATION AND COOLING
,	COMPRESSORS AND PUMPS

VALVES

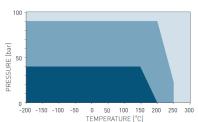
Composition	PTFE, silica
Color	Pink
Approvals	BAM (Oxygen), EN 12308, LNG & Cryogenic applications

TECHNICAL DATA Typical values for 2 mm thickness

Density	DIN 28090-2	g/cm³	2.1
Compressibility	ASTM F36J	%	7
Recovery	ASTM F36J	%	45
Tensile strength	ASTM F152	MPa	14
Stress resistance	DIN 52913		
30 MPa, 16 h, 150 °C		MPa	13
Specific leak rate	DIN 3535-6	mg/(s·m)	0.002
pH range			0-14
Operating conditions			
Minimum temperature		°C/°F	-200/-328
Maximum temperature		°C/°F	260/500
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 diagram indicates the maximum permissible combination of internal pressure and service temperature which can be simultaneously applied for a given gasket's thickness, size and tightness class. Given the wide variety of gasket applications and service conditions, these values should only be regarded as a guidance for the proper gasket assembly. In general, thinner gaskets exhibit better P-T properties.

Standard dimension of sheets

Size (mm): 1500 x 1500 Thickness (mm): 1.5 | 2.0 | 3.0

Other sizes and thicknesses available on request.

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

Dioxane	+
Diphyl (Dowtherm A)	+
Esters	+
Ethane (gas)	+
Ethers	+ + + +
Ethyl acetate	+
Ethyl alcohol (Ethanol)	+
Ethyl cellulose	+
Ethyl chloride (gas) Ethylene (gas)	+
Ethylene glycol	+ +
Formaldehyde (Formalin)	-
Formamide	÷
Formic acid, 10%	+ + +
Formic acid, 85%	+
Formic acid, 100%	+
Freon-12 (R-12)	+
Freon-134a (R-134a)	+
Freon-22 (R-22)	+
Fruit juices	+
Fuel oil	+
Gasoline	+
Gelatin	+
Glycerine (Glycerol)	+
Glycols	+
Helium (gas)	+
Heptane Hydraulic oil (Glycol based)	+
Hydraulic oil (Mineral type)	+
Hydraulic oil (Phosphate ester based)	+
Hydrazine	+
Hydrocarbons	+
Hydrochloric acid, 10%	+
Hydrochloric acid, 37%	+
Hydrofluoric acid, 10%	-
Hydrofluoric acid, 48%	-
Hydrogen (gas)	+
Iron sulfate	+
Isobutane (gas)	+
Isooctane	+
Isoprene	+
Isopropyl alcohol (Isopropanol)	+
Kerosene Ketones	+
Lactic acid	+
Edetic dela	+
Lead acetate	÷
Lead arsenate	-
Lead arsenate Magnesium sulfate	+
Lead arsenate Magnesium sulfate Maleic acid	+ +
Lead arsenate Magnesium sulfate Maleic acid Malic acid	+ + + +
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Vinyl chloride (gas) Vinylidene chloride		
Vinylidene chloride +		
	· · · · · · · · · · · · · · · · · · ·	
	White spirits	+

CHEMICAL RESISTANCE CHART

The recommendations made here are intended as a guideline for the selection of a suitable gasket type. As the function and durability of 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



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Xylenes

Xylenol

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Octane

Oils (Essential)

Oils (Vegetable)