

# INFLATABLE PACKERS



**MFC**International  
by RESPIREX

ENGINEERED INFLATABLE PRODUCT SOLUTIONS

# About MFC International



MFC International are a specialist manufacturer of inflatable rescue, recovery, survival and sewer maintenance equipment based in Tonypanyd, South Wales. Our equipment is used by fire brigades, mountain and lowland rescue, utilities, the military and humanitarian support organisations internationally and we have earned an unrivalled reputation for our product quality, durability and performance.

Founded in 1959 at the old Naval Colliery site in Tonypanyd, the company (then called MFC Survival) started by manufacturing life jackets and life rafts for the Royal Navy and South Wales commercial shipping ports. Over time the focus shifted towards the design and manufacture of specialist inflatable products for the defence and rescue industries.

MFC boasts an impressive history of innovation; we were the original inventor of airlift bags, the first to manufacture aircraft recovery bags and one of the first to introduce inflatable shelters.

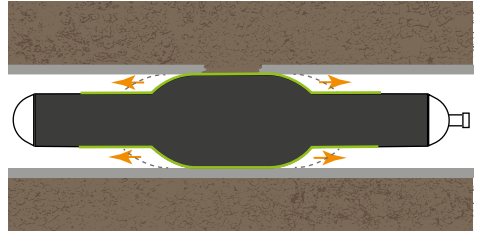
Acquired by Respirex in 2013, MFC has continued to innovate and significant investment has been made into the manufacturing facility. MFC now produce a broad range of product in-house incorporating a diverse range of technologies - these include:

- HF and hot-air welding for shelters and inflatable water rescue equipment
- Vulcanising presses for high pressure lifting bags
- Autoclave vulcanisation for no-dig sewer repair products
- Vulcanisation of neoprene material for pillow packers and low pressure lifting bags

These are combined with 60 years of experience in the manufacture of traditional glued neoprene products to offer an unrivalled range of high performance inflatable rescue equipment.

## UNIQUE INFLATION PROFILE

During inflation, the packer first starts to expand from the centre point; this expansion moves out towards each end as the inflation pressure increases, squeezing the resin from middle out to the ends of the patch, removing air pockets. This inflation profile is especially effective with our T90 packers, as inflation starts in the elbow of the pipe, pushing the resin towards the outer ends of the packer, where the pipe diameter decreases.



## NATURAL & POLYBUTADINE RUBBER BLEND

MFC International packers are manufactured from our own unique natural and polybutadiene rubber formulation, which provides greater flexibility and elasticity than competing products. Puncture resistance on sharp clay pipe ends and chemical resistance are also improved.



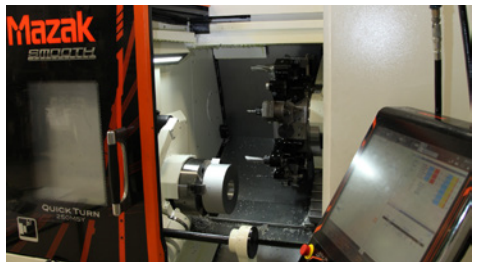
## REDUCED INFLATION PRESSURE

The greater elasticity of our rubber formulation means that inflation pressures during operation of the packer can be lower. The lower operating pressure reduces the stress on the rubber and improves the service life of the product.



## PRECISION MANUFACTURING

Packers and aluminium components are manufactured in house in our UK factories allowing us to keep tight control on quality while ensuring rapid turnaround for customer orders. All packer designs are tested to 100 simulated uses followed by an overpressure test at 16 bar, with on-going randomised sampling testing to the same criteria.

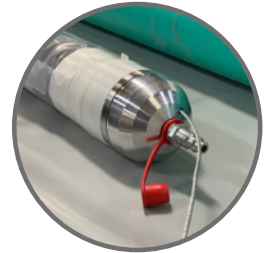


# Why use our packers?

MFC International packers are available in multiple standard sizes, but we can also custom manufacture to a customers specific size requirements if required. All designs are quick and easy to install and can be pushed or dragged through the pipe (both options are available in each packer size and type). Packers require minimal maintenance, but servicing is available on request.

## ALL LATERAL, FLEXIBLE & T90 PACKERS

- Unique inflation profile squeezes resin from the middle outwards, removing air pockets
- Dimensionally stable and highly flexible
- Lightweight design with aluminium ends and lighter weight rubber formulation
- Customer specific sizes available
- Efficient and economical to work with
- Easily manoeuvrable due to low friction metal front end

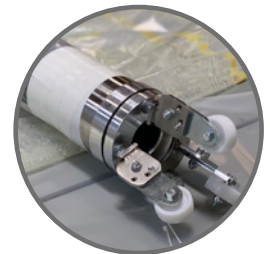


## T90 PACKERS

- Unique inflation from the middle outwards
- Light weight
- Controlled inflation

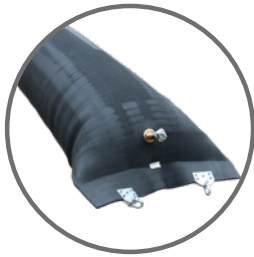
## FLEXIBLE PACKERS

- Suitable for repairs of the pipe and joint region from 0.5 metres to 5 metres in length, even in badly damaged pipes
- Enables installers to close lateral junctions
- Can repair circular and egg-shaped pipes made of concrete, asbestos cement, plastics
- (PVC, PP, HDPE), cast iron, ductile cast iron, reinforced concrete and vitrified clay
- Manoeuvrable front head
- Easy disconnected wheels



## LONG PACKERS

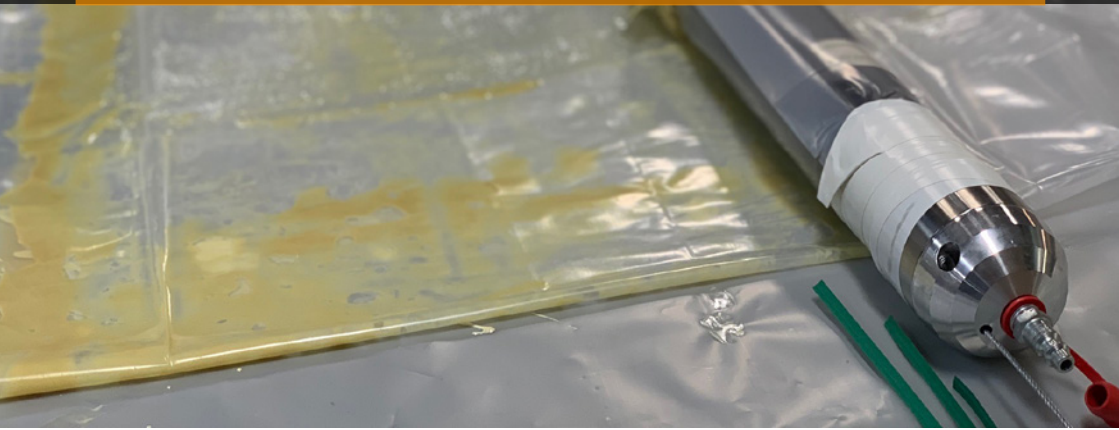
- Suitable for repairs of the pipe and joint region from 0.5 metres to 5 metres in length, even in badly damaged pipes
- Enables installers to close lateral junctions
- Can repair circular and egg-shaped pipes made of concrete, asbestos cement, plastics (PVC, PP, HDPE), cast iron, ductile cast iron, reinforced concrete and vitrified clay
- Manoeuvrable front head for easy installation and pushing through bends



## PILLOW PACKERS

- Light weight
- Easy to manoeuvre
- One type for multiple shape pipes: oval, egg shape, round
- One size fits to multiple sizes of pipes
- Available in sizes to suit up to a 3000mm pipe
- Easy insertion also through small holes (can be folded)
- Inflates to fit the shape of damaged infrastructure
- Can make a repair up to 5m in length

# Lateral Packers



MFC Lateral Packers are suitable for repairs of small diameter pipes, especially in house connection installations. Lateral packers are rounded on both ends in order to simplify the handling/insertion and come equipped with quick action couplings.

## FEATURES

- Available in multiple sizes
- Flexible to manoeuvre
- Nylon reinforced
- Easy to push around corners
- Can be used in all types of pipes
- Manufactured with anti-slip pattern

## TECHNICAL DATA

Product Code	Size (mm)	Min. Usable Size (mm)	Max. Usable Size (mm)	Working Pressure (bar)	Diameter of Deflated Packer (mm)	Length of Deflated Packer (mm)	Weight (kg)	Rubber Length (mm)
PLA071007/001	70-100 x 0.7	70	100	2.5	45	720	0.6	600
PLA071010/001	70-100 x 1.0	70	100	2.5	45	1120	0.8	1000
PLA071015/001	70-100 x 1.5	70	100	2.5	45	1620	1.1	1500
PLA071020/001	70-100 x 2.0	70	100	2.5	45	2120	1.4	2000
PLA071025/001	70-100 x 2.5	70	100	2.5	45	2620	1.6	2500
PLA071030/001	70-100 x 3.0	70	100	2.5	45	3120	1.9	3000

# Lateral Packers

Product Code	Size (mm)	Min. Usable Size (mm)	Max. Usable Size (mm)	Working Pressure (bar)	Deflated Packer Diameter (mm)	Deflated Packer Length (mm)	Weight (kg)	Rubber Length (mm)
PLA071040/001	70-100 x 4.0	70	100	2.5	45	4120	2.4	4000
PLA071050/001	70-100 x 5.0	70	100	2.5	45	5020	2.8	5000
PLA101507/001	100-150 x 0.7	100	150	2.5	65	720	1.1	600
PLA101510/001	100-150 x 1.0	100	150	2.5	65	1120	1.5	1000
PLA101515/001	100-150 x 1.5	100	150	2.5	65	1620	1.9	1500
PLA101520/001	100-150 x 2.0	100	150	2.5	65	2120	2.4	2000
PLA101525/001	100-150 x 2.5	100	150	2.5	65	2620	2.8	2500
PLA101530/001	100-150 x 3.0	100	150	2.5	65	3120	3.2	3000
PLA101540/001	100-150 x 4.0	100	150	2.5	65	4120	4.0	4000
PLA101550/001	100-150 x 5.0	100	150	2.5	65	5020	5.4	5000
PLA152507/001	150-250 x 0.7	150	250	2.5	85	720	1.9	600
PLA152510/001	150-250 x 1.0	150	250	2.5	85	1120	2.5	1000
PLA152515/001	150-250 x 1.5	150	250	2.5	85	1620	3.1	1500
PLA152520/001	150-250 x 2.0	150	250	2.5	85	2120	3.8	2000
PLA152525/001	150-250 x 2.5	150	250	2.5	85	2620	5.0	2500
PLA152530/001	150-250 x 3.0	150	250	2.5	85	3120	6.3	3000
PLA152540/001	150-250 x 4.0	150	250	2.5	85	4120	8.6	4000
PLA152550/001	150-250 x 5.0	150	250	2.5	85	5020	9.2	5000

# Flexible Packers



MFC Flexible packers are suitable for patch repairs ranging from 1 up to 5 meters. Flexible packers are equipped with a bypass and wheel system that allows positioning along the pipeline. Flexible Packers bend allowing them to fit through manholes easily.

## FEATURES

- Available in multiple sizes
- Flexible and easy to manoeuvre
- Wheels can be removed easily
- Easy to push around corners
- Manufactured with anti-slip pattern

## TECHNICAL DATA

Product Code	Size (mm)	Min. Usable Size (mm)	Max. Usable Size (mm)	Working Pressure (bar)	Deflated Packer Diameter (mm)	Deflated Packer Length (mm)	Weight (kg)	Rubber Length (mm)	Bypass Dia. (female)
PFL101510/001	100-150 x 1.0	100	150	2.5	65	1080	2.1	1000	N/A
PFL101515/001	100-150 x 1.5	100	150	2.5	65	1580	2.5	1500	N/A
PFL101520/001	100-150 x 2.0	100	150	2.5	65	1980	2.8	1900	N/A
PFL101525/001	100-150 x 2.5	100	150	2.5	65	2580	3.3	2500	N/A
PFL101530/001	100-150 x 3.0	100	150	2.5	65	3080	4.2	3000	N/A
PFL101540/001	100-150 x 4.0	100	150	2.5	65	4080	5.0	4000	N/A
PFL101550/001	100-150 x 5.0	100	150	2.5	65	4980	6.0	4900	N/A



# Flexible Packers

Product Code	Size (mm)	Min. Usable Size (mm)	Max. Usable Size (mm)	Working Pressure (bar)	Deflated Packer Diameter (mm)	Deflated Packer Length (mm)	Weight (kg)	Rubber Length (mm)	Bypass Dia. (female)
PFL152510/001	150-250 x 1.0	150	250	2.0	112	1080	8.0	1000	2"
PFL152515/001	150-250 x 1.5	150	250	2.0	112	1580	9.5	1500	2"
PFL152520/001	150-250 x 2.0	150	250	2.0	112	1980	11.0	1900	2"
PFL152525/001	150-250 x 2.5	150	250	2.0	112	2580	14.3	2500	2"
PFL152530/001	150-250 x 3.0	150	250	2.0	112	3080	15.2	3000	2"
PFL152540/001	150-250 x 4.0	150	250	2.0	112	4080	17.2	4000	2"
PFL152550/001	150-250 x 5.0	150	250	2.0	112	4980	21.4	4900	2"
PFL203010/001	200-300 x 1.0	200	300	1.5	210	1080	11.3	1000	2"
PFL203015/001	200-300 x 1.5	200	300	1.5	210	1980	13.3	1900	2"
PFL203020/001	200-300 x 2.0	200	300	1.5	210	2580	14.3	2500	2"
PFL203025/001	200-300 x 2.5	200	300	1.5	210	3080	15.2	3000	2"
PFL203030/001	200-300 x 3.0	200	300	1.5	210	4080	17.2	4000	2"
PFL203040/001	200-300 x 4.0	200	300	1.5	210	4980	19.1	4900	2"
PFL304010/001	300-400 x 1.0	300	400	1.5	210	1080	19.2	1000	3"
PFL304015/001	300-400 x 1.5	300	400	1.5	210	1580	21.6	1500	3"
PFL304020/001	300-400 x 2.0	300	400	1.5	210	1980	25.0	1900	3"
PFL304025/001	300-400 x 2.5	300	400	1.5	210	2580	30.0	2500	3"
PFL304030/001	300-400 x 3.0	300	400	1.5	210	3080	33.0	3000	3"
PFL304040/001	300-400 x 4.0	300	400	1.5	210	4080	41.5	4000	3"
PFL304050/001	300-400 x 5.0	300	400	1.5	210	4980	47.0	4900	3"
PFL456010/001	450-600 x 1.0	450	600	1.2	340	1080	34.5	1000	3"
PFL456015/001	450-600 x 1.5	450	600	1.2	340	1580	36.6	1500	3"
PFL456020/001	450-600 x 2.0	450	600	1.2	340	1980	41.6	1900	3"
PFL456025/001	450-600 x 2.5	450	600	1.2	340	2580	50.0	2500	3"
PFL456030/001	450-600 x 3.0	450	600	1.2	340	3080	53.0	3000	3"

# T-90 Packers

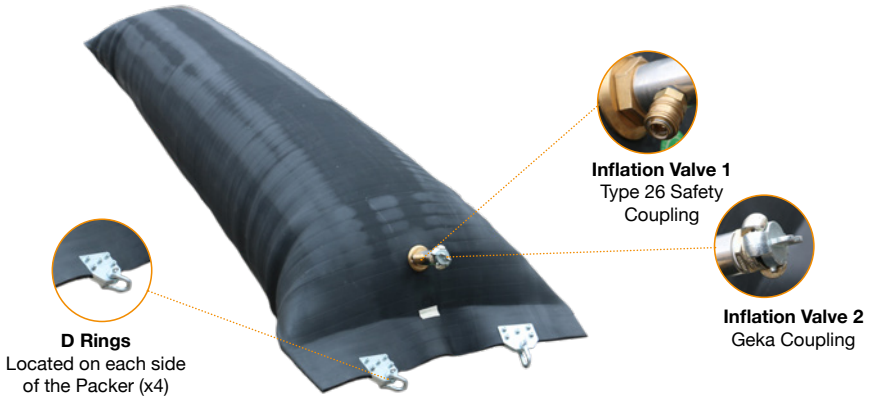


MFC T90 Packers are constructed using unique flexible rubber materials making them lightweight, flexible to manoeuvre and can inflate to repair pipes with 45°, 60° and 90° corners. T90 Packers are easy to operate and are specifically designed to simplify the process of inserting/removing a packer through a tricky pipe system.

## FEATURES

- Available in multiple sizes
- Flexible to manoeuvre
- Folds flat for easy transportation
- Unique inflation process which starts in middle
- Suitable to repair pipes with 45°, 60° and 90° corners
- Inflates to fit the shape of damaged infrastructure
- No-dig method of repair which reduces cost, time on site and disruption

TECHNICAL DATA	100-125 x 1m	100-125 x 1.5m	150-165 x 1m	150-165 x 1.5m
Product Code	PT9010012510/001	PT9010012515/001	PT9015016510/001	PT9015016515/001
Min. Diameter (mm)	100	100	150	150
Max. Diameter (mm)	125	125	165	165
Max. Inflation Pressure (bar)	2.0	2.0	2.0	2.0
Rubber Body Length (mm)	1000	1500	1000	1500
Deflated Diameter (mm)	65	65	85	85
Deflated Length (mm)	1100	1600	1100	1600
Weight (kg)	2	2.8	3.2	4.1



MFC Pillow Packers are constructed using unique flexible rubber materials making them lightweight, flexible to manoeuvre and can inflate to fit the shape of any damaged area. Pillow packers are easy to operate and can be folded flat when deflated, making them easy to transport.

## FEATURES

- Available in multiple sizes
- Flexible to manoeuvre
- Lighter weight than standard packers of the equivalent size
- Folds flat for easy transportation
- Inflates to fit the shape of damaged infrastructure (repairs ovoid as well as circular pipes)
- No-dig method of repair which reduces cost, time on site and disruption
- Repair is structural, dependant on layers installed

## TECHNICAL DATA

### Pillow Packer 600 - 1000

Product Code	????
Min. Diameter (mm)	600
Max. Diameter (mm)	1000
Max. Inflation Pressure (bar)	1.0
Test Pressure (bar)	1.3
Bursting Pressure (bar)	3.0
Deflated Diameter (mm)	560
Deflated Width (mm)	910
Deflated Height (mm)	3500
Weight (kg)	38
Number of D Rings	4

# Chemical Resistance



The table below uses the classifications defined in the ISO/TR 7620 standard for the chemical resistance of rubber materials. The effect of the media on the product is classified as 1 - Negligible, 2 - Low, 3 - Medium and 4 - Significant.

Chloroacetone	4	Cumene	4	Dimethyl Aniline (Xylidine)	3
Chlorobenzene	4	Cyclohexane	4	Dimethyl Ether (Methyl Ether)	4
Chlorobromomethane	4	Cyclohexanol	4	Dimethyl Formamide	4
Clorobutadiene	4	Cyclohexanone	4	Dimethyl Phthalate	4
Chlorododecane	4	P-Cymene	4	Dinitrotoluene	4
Chloroform	4	Decalin	4	Diocetyl Phthalate	4
O-Chloronaphthalene	4	Decane	4	Diocetyl Sebecate	4
1-Chloro-1Nitro Ethane	4	Denatured Alcohol	1	Dioxane	4
Chlorosulfonic Acid	4	Detergent Solutions	2	Dioxolane	4
Chlorotoluene	4	Developing Fluids	1	Dipentene	4
Chlorox (Sodium Hypochlorite NaOCl)	4	Diacetone	4	Diphenyl (Biphenyl) (Phenylbenzene)	4
Chrome Plating Solutions	4	Diacetone Alcohol	4	Diphenyl Oxides	4
Chromic Acid	4	Dibenzyl Ether	4	Dowtherm Oil	4
Citric Acid	1	Dibenzyl Sebecate	4	Dry Cleaning Fluids	4
Coal Tar (Creosote)	4	Dibromoethylbenzene (Alkazene)	4	Epichlorohydrin	4
Cobalt Chloride (aq)	1	Dichloro-Isopropyl Ether	4	Ethane	4
Cocoonut Oil	4	Dicyclohexylamine	4	Ethanolamine	2
Cod Liver Oil	4	Diesel Oil	4	Ethyl Acetate	4
Coke Oven Gas	4	Diethylamine	2	Ethyl Acetoacetate	3
Copper Acetate (aq)	1	Diethyl Benzene	4	Ethyl Acrylate	4
Copper Chloride (aq)	1	Diethyl Ether	4	Ethyl Alcohol	1
Copper Cyanide (aq)	1	Diethylene Glycol	1	Ethyl Benzene	4
Copper Sulfate (aq)	2	Diethyl Sebecate	4	Ethyl Benzoate	1
Corn Oil	4	Diisobutylene	4	Ethyl Cellosolve	4
Cottonseed Oil	4	Diisopropyl Benzene	4	Ethyl Cellulose	2
Creosote (Coal Tar)	4	Diisopropyl Ketone	4	Ethyl Chloride	4
Cresol	4	Diisopropylidene Acetone (Phorone)	4	Ethyl Chloroformate	4
Cresylic Acid	4			Ethyl Chloroformate	4

# Chemical Resistance

Ethyl Ether	4	Freon TMC	4	Isopropyl Chloride	4
Ethyl Formate	4	Freon T-P35	1	Isopropyl Ether	4
Ethyl Mercaptan	4	Freon TA	3	Kerosene	4
Ethyl Oxalate	1	Freon TC	4	Lacquers	4
Ethyl Pentachlorobenzene	4	Freon MF	4	Lacquer Solvents	4
Ethyl Silicate	2	Freon BF	4	Lactic Acid (Cold)	1
Ethylene	3	Fuel Oil	4	Lactic Acid (Hot)	4
Ethylene Chloride	4	Fumaric Acid	3	Lard	4
Ethylene Chlorohydrin	2	Furan, Furfuran	4	Lavender Oil	4
Ethylene Diamine	1	Furfural	4	Lead Acetate (aq)	1
Ethylene Dichloride	4	Fyrquel (cellulose)	4	Lead Nitrate (aq)	1
Ethylene Glycol	1	Gallic Acid	1	Lead Sulfamate (aq)	2
Ethylene Oxide	4	Gasoline	4	Ligroin (Benzine) (Nitrobenzine)	4
Ethylene Trichloride	4	Gelatin	1	Lime Bleach	1
Fatty Acids	4	Glauber's Salt (aq)	2	Lime Sulfur	4
Ferric Chloride (aq)	1	Glucose	1	Lindol (Hydraulic Fluid)	4
Ferric Nitrate (aq)	1	Glue	2	Linoleic Acid	4
Ferric Sulfate (aq)	1	Glycerin	1	Linseed Oil	4
Fish Oil	4	Glycols	1	Liquefied Petroleum Gas	4
Fluorinated Cyclic Ethers	4	Green Sulfate Liqueur	2	Lubricating Oils (Petroleum)	4
Fluorine (Liquid)	4	Halowax Oil	4	Lye	2
Fluorobenzene	4	N-Hexaldehyde	4	Magnesium Chloride (aq)	1
Fluoroboric Acid	1	Hexane	4	Magnesium Hydroxide (aq)	2
Fluorocarbon Oils	2	N-Hexene-1	4	Magnesium Sulfate (aq)	2
Fluorolube	2	Hexyl Alcohol	2	Maleic Acid	3
Fluorosilicic Acid (Hydrofluosilicic Acid)	2	Hydrazine	1	Maleic Anhydride	3
Formaldehyde (RT)	2	Hydraulic Oil (Petroleum)	4	Malic Acid	3
Formic Acid	2	Hydrobromic Acid	1	Mercury Chloride (aq)	1
Freon 11	4	Hydrobromic Aid 40%	1	Mercury	1
Freon 12	2	Hydrochloric Acid (Cold) 37%	2	Mesityl Oxide	4
Freon 13	1	Hydrochloric Acid (Hot) 37%	4	Methane	4
Freon 21	4	Hydrocyanic Acid	2	Methyl Acetate	3
Freon 22	2	Hydrofluoric Acid (Conc.) Cold	4	Methyl Acrylate	4
Freon 31	2	Hydrofluoric Acid (Conc.) Hot	4	Methylacrylic Acid	4
Freon 32	1	Hydrofluoric Acid-Anhydrous	4	Methyl Alcohol	1
Freon 112	4	Hydrofluosilicic Acid (Fluosilicic Acid)	2	Methyl Bromide	4
Freon 113	3	Hydrogen Gas	2	Methyl Butyl Detone (Propyl Acetone)	4
Freon 114	1	Hydrogen Peroxide (90%)	4	Methyl Cellosolve	4
Freon 115	1	Hydrogen Sulfide (Wet) Cold	4	Methyl Chloride	4
Freon 142b	2	Hydrogen Sulfide (Wet) Hot	4	Methyl Cyclopentane	4
Freon 152a	1	Hydroquinone	2	Methylene Chloride	4
Freon 218	1	Hypochlorous Acid	2	Methyl Ether (Dimethyl Ether)	4
Freon C316	1	Iodine Pentafluoride	4	Methyl Ethyl Ketone	4
Freon C318	1	Iodofom	4	Methyl Formate	4
Freon 12B1	1	Isobutyl Alcohol	1	Methyl Isobutyl Ketone	4
Freon 114B2	4	Isooctane	4	Methyl Methacrylate	4
Freon 502	1	Isophorone	4	Methyl Oleate	4
Freon TF	4	Isopropyl Acetate	4	Methyl Salicylate	3
Freon T-WD602	4	Isopropyl Alcohol	1		

# Chemical Resistance

Milk	1	Phenol (Carbolic Acid)	4	Salicylic Acid	1
Mineral Oil	4	Phenylbenzene (Biphenyl) (Diphenyl)	4	Salt Water	1
Monochlorobenzene	4	Phenyl Ethyl Ether	4	Sewage	2
Monomethyl Aniline	4	Phenyl Hydrazine	1	Silicate Esters	4
Monoethanol Amine	2	Phorone (Diisopropylidene Acetone)	4	Silicone Greases	1
Monomethyl Ether (Methyl Ether)	4	Phosphoric Acid-20%	2	Silicone Oils	1
Monovinyl Acetylene	2	Phosphoric Acid-45%	3	Silver Nitrate	1
Mustard Gas	1	Phosphorus Trichloride	4	Skydrol 500	4
Naphtha	4	Pickling Solution	4	Skydrol 7000	4
Naphthalene	4	Picric Acid	2	Soap Solutions	2
Naphthalenic Acid	4	Pinene	4	Soda Ash	1
Natural Gas	2	Pine Oil	4	Sodium Acetate (aq)	1
Neats Foot Oil	4	Piperidine	4	Sodium Bicarbonate (aq) (Baking Soda)	1
Neville Acid	4	Plating Solution-Chrome	4	Sodium Bisulfite (aq)	1
Nickel Acetate (aq)	1	Plating Solution-Others	4	Sodium Borate (aq)	1
Nickel Chloride (aq)	1	Polyvinyl Acetate Emulsion	2	Sodium Chloride (aq)	1
Nickel Sulfate (aq)	2	Potassium Acetate (aq)	1	Sodium Cyanide (aq)	1
Niter Cake	1	Potassium Chloride (aq)	1	Sodium Hydroxide (aq)	1
Nitric Acid (Conc.)	4	Potassium Cupro Cyanide (aq)	1	Sodium Hypochlorite (aq) (Chlorox)	4
Nitric Acid (Dilute)	4	Potassium Cyanide (aq)	1	Sodium Metaphosphate (aq)	1
Nitric Acid0Red Fuming	4	Potassium Dichromate (aq)	2	Sodium Nitrate (aq)	2
Nitrobenzene	4	Potassium Hydroxide (aq)	2	Sodium Perborate (aq)	2
Nitrobenzene (Petroleum Ether)	4	Potassium Nitrate (aq)	1	Sodium Peroxide (aq)	2
Nitroethane	2	Potassium Sulfate (aq)	2	Sodium Phosphate	1
Nitrogen	1	Producer Gas	4	Sodium Silicate (aq)	1
Nitrogen Tetroxide	4	Propane	4	Sodium Sulfate (aq)	2
Nitromethane	2	I-Propyl Acetate	4	Sodium Thiosulfate (aq)	2
Octachlorotolene	4	N-Propyl Acetate	4	Soybean Oil	4
Octadecane	4	Propyl Acetone (Methyl Butyl Ketone)	4	Stannic Chloride (aq)	1
N-Octane	4	Propyl Alcohol	1	Stannous Chloride (aq)	1
Octyl Alcohol	2	Propyl Nitrate	4	Steam Under 300 Degree Fahrenheit	4
Oleic Acid	4	Propylene	4	Steam Over 300 Degree Fahrenheit	4
Oleum Spirits	4	Propylene Oxide	4	Stearic Acid	2
Olive Oil	4	Pydraul, 10E, 29 ELT	4	Stoddard Solvent	4
O-Dichlorobenzene	4	Pydraul, 30E, 50E, 53E, 90E	4	Styrene	4
Oxalic Acid	2	Pydrayl, 115E	4	Sucrose Solution	1
Oxygen - Cold	2	Pydraul, 230E, 312C, 540C	4	Sulfite Liquors	2
Oxygen - (200-400 Degree Fahrenheit)	4	Pyranol, Transformer Oil	4	Sulfur	4
Ozone	4	Pyridine	4	Sulfur Chloride (aq)	4
Paint Thinner, Duco	4	Pyoligneous Acid	4	Sulfur Dioxide (Dry)	2
Palmitic Acid	2	Pyrrole	3	Sulfur Dioxide (Wet)	4
Peanut Oil	4	Radiation	3	Sulfur Dioxide (Liquified Under Pressure)	4
Perchloric Acid	4	Rapeseed Oil	4	Sulfur Hexafluoride	4
Perchloroethylene	4	Red Oil (MIL-H-5606)	4	Sulfur Trioxide	2
Petroleum-Below 250 Degree Fahrenheit	4	RJ01 (MIL-F-2558 B)	4	Sulfuric Acid (Dilute)	3
Petroleum-Above 250 Degree Fahrenheit	4	RP-1 (MIL-F-22576 C)	4	Sulfuric Acid (Conc.)	4
		Sal Ammoniac	1		

Sulfuric Acid (20% Oleum)	4	White Oil	4
Sulfurous Acid	2	Wood Oil	4
Tannic Acid	1	Xylene	4
Tar, Bituminous	4	Xylidine (Di-methyl Aniline)	3
Tartaric Acid	3	Zeolites	1
Terpineol	4	Zinc Acetate (aq)	1
Tertiary Butyl Alcohol	2	Zinc Chloride (aq)	1
Tertiary Butyl Catechol	4	Zinc Sulfate (aq)	2
Teritary Butyl Mercaptan	4		
Tetrabromoethane	4	TT-T656b	4
Tetrabromomethane	4	VV-B-680	3
Tetrabutyl Tianate	2	VV-G-632	4
Tetrachloroethylene	4	VV-G-671c	4
Tetraethyl Lead	4	VV-H-910	2
Tetrahydrofuran	4	VV-I-530a	4
Tetralin	4	VV-K-211d	4
Thionyl Chloride	4	VV-K-220a	4
Titanium Tetrachloride	4	VV-L-751b	4
Toluene	4	VV-L-800	4
Toluene Diisocyanate	4	VV-L-820b	4
Transformer Oil	4	VV-L-825a Type I	4
Transmiision Fluid Type A	4	VV-L-825a Type II	4
Triacetin	2	VV-L-825a Type III	4
Traryl Phosphate	4	VV-O-526	4
Tributoxy Ethyl Phosphate	2	VV-P-216a	4
Tributyl Mercaptan	4	VV-P-236	4
Tributyl Phosphate	2	51-F-23	4
Trichlooacetic Acid	3		
Trichloroethane	4	MIL-L-644 B	3
Trichloroethylene	4	MIL-L-2104 B	4
Tricresyl Phosphate	4	MIL-L-2105 B	4
Triethanol Amine	2	MIL-G-2108	4
Triethyl Aluminum	4	MIL-S-3136 B Type I	4
Triethyl Borane	4	MIL-S-3136 B Type II	4
Trinitrotoluene	4		
Trioctyl Phosphate	4	ASTM Method D-471	
Tung Oil (China Wood Oil)	4	1	4
Turbine Oil	4	2	4
Turpentine	4	3	4
Unsymmetrical Dimethyl Hydrazine (UDMH)	1		
Varnish	4		
Vegetable Oils	4		
Versilube F-50	1		
Vinegar	2		
Vinyl Chloride	4		
Wagner 21B Brake Fluid	2		
Water	1		
Whiskey, Wines	1		
White Pine Oil	4		



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