

## Chemical Resistance Chart

<b>KEY</b>	A	Fluid has little or no effect	C	Fluid has severe effect	X	No data-likely to have severe effect
	B	Fluid has minor to moderate effect	T	No data-likely to have minor effect	-	No data

NAME	CONDITIONS			TPU POLYETHER POLYURETHANE	NBR	PVC	BRASS	ALUMINUM
	%	°C	HOURS					
Acetaldehyde	40	21	1000	C	X	X	A	A
Acetamide	50	21	1000		B	-	-	-
Acethylene		21	1000					
Acetic acid	20	21	1000	C	X	A	X	B
Acetic acid	5	21	1000	C	X	A		
Acetic acid	5	100	10					
Acetic acid	98					C		
Acetic acid, glacial		38	1000				-	-
Acetic anhydride			1000				-	-
Acetone		21	10000		X	X	A	A
Acetone			1000	C	X			
Acetone		21	1000		X	C		
Alcohol			1000					
Allyl alcohol			1000		-	X	-	-
Aluminium chloride	5	60	168	B	-	-		
Aluminium chloride solutions					A	-	X	X
Aluminium salts				B	A	A	-	B
Aluminium sulfate solutions				B	A	-	X	X
Alums								
Ammonia				B	X	A	-	-
Ammonia	28	21	1000			A	X	-
Ammonium chloride solutions	10				B	A	X	-
Ammonium hydroxide	2	21	10000	A	B	X	X	-
Ammonium hydroxide solutions					-	-	X	-
Ammonium salts				B				
Ammonium sulfate solutions				B				
Amyl acetate				C	X	X	A	X
Amyl alcohol				C	B	B	A	A
Aniline		21	10000	C	X	-	X	B
Aniseed oil								
Asphalt					B	X	A	-
ASTM oil No.1		149		B	A	B	A	A
ASTM Oil No.3		149		B	A	X	A	A
ASTM reference Fuel A		70		B	A	B	A	A
ASTM reference Fuel B		70		B	A	X	A	A
ASTM reference Fuel C		70		C	B	X	A	-
ASTM reference Fuel C								
Barium hydroxide solutions				B	A	X	-	-
Beer					-	-	-	-
Benzaldehyde				C	X	X	-	A
Benzene		21	1000	C	B	X	A	A
Benzoic acid	3	100	10				-	-
Benzoic acid	3	100	10	C	X	X		
Benzole								
Benzyl alcohol					X	A	-	-

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## Chemical Resistance Chart (continued)

NAME	CONDITIONS			TPU POLYETHER POLYURETHANE	NBR	PVC	BRASS	ALUMINUM
	%	°C	HOURS					
Bitumen								
Bleaching lye		21	288					
Borax solutions					A	A	B	-
Boric acid solutions	10			B	A	A	X	A
Brandy								
Bromine, anhydrous liquid				B	X	X	A	A
Butane		21	1000		X	X		
Butanol		21	10000		A	A	A	A
Butter					-	-	-	-
Butter milk								
Butyl acetate		21	10000				A	A
Butyl acetate				C	X	A		
Butyl alcohol				B	A	A	A	A
Butylene glycol							-	-
Butyraldehyde					X	-	A	-
Butyric acid					-	A	B	A
Calcium chloride		21	10000	B	A	A	B	-
Calcium chloride solutions	10				A	A	-	-
Calcium hydroxide solutions				B	B	-	X	X
Calcium hypochlorite	5				-	B	-	-
Calcium hypochlorite		60	1000		-	B		
Camphor								
Carbon bisulfide								
Carbon Dioxide				A	A	A	A	A
Carbon disulphide		21	1000	B	B	X	B	B
Carbon monoxide					B	A	A	A
Carbon tetrachloride		21	1000	C	X	X	B	X
Carbon tetrachloride								
Castor oil				B	A	A	A	A
Catechol	6							
Caustic soda	40				X	X	-	-
Chloric Acid 35%						A		
Chlorine gas, dry				B			-	-
Chlorine gas, wet					X	X		
Chlorine water					-	X	-	-
Chloroacetic acid				C	B	-	-	-
Chlorobenzene					X	X	A	A
Chloroform		21	1000	C	X	X	A	A
Chloromic acid	40	80	1000	C				
Chlorosulfonic acid					X	X	-	-
CELLOSOLVE Acetate					X	A	-	-
Citric acid	10	80	1000	B	X	A	X	A
Copper chloride solutions					B	A	X	-
Copper salts	10							
Copper Sulfate solutions					A	A	X	X
Cotton seed oil		21	1000	B	B	-	A	A
Creosote oil					B	X	X	A
Cresol		21	10000	C	X	-	-	A
Cupric sulphate		21	10000	B	A	A	X	X
Cyclohexane				Disolve	B	X	A	-
Cyclohexanol					B	X	-	-

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## Chemical Resistance Chart (continued)

NAME	CONDITIONS			TPU POLYETHER POLYURETHANE	NBR	PVC	BRASS	ALUMINUM
	%	°C	HOURS					
Cyclohexanone					X	X	-	B
Decalin					B	-	A	-
Dibutyl Phthalate		30	1000	C	X	A	A	A
Diesel oil						C		
Diesel fuel					A	C	A	A
Diethyl ether		21	10000		X	B	A	A
Diethyl sebacate					X	X	A	-
Dimethyl formamide				Disolve			-	-
Dimethyl Phthalate					X	-		
Dioctyl Phthalate							A	A
Dioxane		21	1000		X	X	A	A
Epichlorohydrin					-	-	-	-
Ethanol		21	10000		A	B	B	A
Ether				B	B	B	A	A
Ethyl acetate		21	1000	C	X	X	A	A
Ethyl acetate								
Ethyl Alcohol				B	A	B	B	A
Ethyl chloride				C	X	X	B	A
Ethylene dichloride		21	1000		X	X	-	-
Ethylene glicol		21	10000	B	A	A	A	A
Ethylene oxide								
Ferric chloride	3	100	10	B	B	A	X	X
Ferric chloride		21	10000	B				
Ferric chloride solutions					B	A	X	X
Fluosilicic acid					X	X	-	A
Formaldehyde	30	21	10000	B	-	-	A	B
Formic acid	40			C	-	X		
Formic Acid							B	-
Formic Acid	5	21	1000					
Formic Acid	5	100	10					
Freon 11								
Freon 113		55			X	X		
Freon 114								
Freon 12					X	X	-	-
Freon II		21	1000					
Fuel oil				B	A	X	A	A
Gasoline				B	B	C	A	A
Glue					B	A	X	A
Glycerin				B	A	A	A	A
Glycerol		60	1000		A	A	A	A
Glycol				B	A	-		
Heptane		21	1000		A	B	A	A
Hexane		60	1000	B	A	X	A	-
Hydrazine				C	X	X	-	-
Hydrochloric acid	10	21	10	C				
Hydrochloric acid	20				B	X		
Hydrochloric acid	10	21	20000					
Hydrochloric acid	1			C				
Hydrochloric acid	37				-	X	X	X
Hydrocyanic acid					-	-		
Hydrofluoric acid	48				X	X	X	X

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	%	°C	HOURS					
Hydrofluoric acid	75			C				
Hydrogen				A	X	X	-	-
Hydrogen peroxide	30			B	B	A	X	A
Hydrogen peroxide	3	70	10					
Hydrogen peroxide	3	21	10					
Hydrogen sulfide				C	X	X	-	A
Iron salts	20				A	A	-	-
Isooctane				B	A	X	A	-
Isopropanol		60	1000	B	A	B	B	A
Isopropyl alcohol					A	B	B	A
JP-4 Jet Fuel				C	A	X	A	B
Kerosene				B	B	C	A	A
Kerosene		21	1000					
Lacquer solvents								
Lactic acid	50			B	A	-	B	X
Lactic acid	90	21	10000		-	-	B	X
Linseed oil				B	B	A	B	A
Lithium grease		100						
Lubricating oil				B	B	-	B	A
Magnesium chloride solutions					-	-		
Magnesium hydroxide solutions					-	-	-	X
Maleic acid	25	21	10000	C	X	X	-	-
Mercuric chloride solutions					B	B	X	X
Mercury				A	B	A	X	X
Methanol		21	1000		A	B	B	A
Methyl alcohol					A	B	B	A
Methyl ethyl ketone		21	10000	C	X	X	A	A
Methyl ethyl ketone								
Methyl isobutyl ketone					X	X	-	-
Methylene chloride		21	1000	C	X	X	A	X
Mineral oils		80	1000	B	A	A	A	A
Naphtha				B	B	X	A	B
Naphthalene					-	-	A	A
Nickel salts				C	A	B	-	-
Nitric acid	70			C	X	X	X	-
Nitric acid	30				X	X	X	-
Nitric acid	60				X	X	X	-
Nitric acid	10	21	20000	C	X	X	X	-
Nitric acid, red fuming					X	X	-	-
Nitrobenzene				C	X	X	A	A
Nitromethane					X	X	A	-
Octane					-	-	-	-
Oleic acid				B	B	B	B	A
Oleic acid	100	80	1000					
Oleum	20/25				X	X	-	-
Olive oils		80	1000		B	B	B	A
Oxalic acid	5	100	10	A	-	X	X	B
Palmitic acid					B	-	X	A
Paraffin oil					A	-	A	-
Perchloroethane								

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## Chemical Resistance Chart (continued)

NAME	CONDITIONS			TPU POLYETHER POLYURETHANE	NBR	PVC	BRASS	ALUMINUM
	%	°C	HOURS					
Perchloroethylene		120	10	C	X	X	X	-
Perchloroethylene		100	10					
Perchloroethylene								
Petrol		21	1000					
Petroleum				B				
Phenol		21	10000	C	X	X	X	B
Phenol		93	10					
Phenol								
Phenyl etyl alcohol								
Phosphoric acid	85	21	10000	B	X	A	X	X
Phosphoric acid	10	21	10			A		
Pickling solution	20				-	-		
Plasticizers								
Potassium bromide	10				-	A	-	-
Potassium chloride		21	10000	B	-	A	-	-
Potassium Dichromate solutions					-	A	-	-
Potassium hydroxide	10	21	100				-	-
Potassium hydroxide	0,1	21	500		B	A		-
Potassium iodide	10				A	A	-	-
Potassium nitrate	10			B	-	A	-	-
Potassium permanganate	1				-	X		
Potassium permanganate	50	21	1000				-	-
Potassium sulphate					-	A	-	-
Propane				B	X	X		
Propanol					-	B	-	-
Pydraul 312					X	X	-	-
Pyridine		21	10000		-	X	A	A
Pyridine		21	1000					
Pyridine								
Resorcinol	10	21	1000					
SAE 10 oil				B				
Salicylic acid					X	A	-	B
Salt								
Sea Water				B	B	A	B	-
Silicone fluids		80	1000					
Silicone Grease					B	B	A	-
Silver salts				B				
SKYDROL 500B								
Soap	1	120	10	B	A	B	-	-
Sodium bicarbonate	10	80	1000	B	A	A	B	-
Sodium bisulphite	1	100	10	B	A	A	-	-
Sodium bromide								
Sodium carbonate	1	120	10	B	A	A	B	X
Sodium chloride	0,7	100	10	B			X	X
Sodium chloride	20	80	1000	B	A	A		
Sodium dichromate	20			B	A	A	-	-
Sodium hydroxide	1	100	100			A	-	-
Sodium hydroxide	0,1	21	10000	B		A		
Sodium hydroxide	20					A		
Sodium hypochlorite	0,4	70	10					

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## Chemical Resistance Chart (continued)

NAME	CONDITIONS			TPU POLYETHER POLYURETHANE	NBR	PVC	BRASS	ALUMINUM
	%	°C	HOURS					
Sodium hypochlorite	5				X	A	X	X
Sodium nitrate	10			B	X		B	B
Sodium perborate	1	100	10		X	A	X	A
Sodium phosphite	10				-	A	X	X
Sodium sulphate		21	10000	B	A	A	-	-
Sodium sulphate	10	21	20000					
Sodium sulphide				B	A	A	-	-
Sodium sulphite					B	A		
Sodium thiosulphide								
Soybean oil					B	B	-	-
Stannouschloride	15				A	A	-	-
Steam		100		C	X	X	-	-
Stearic acid					B	A	X	X
Styrene				B	X	-	B	X
Sulfur dioxide gas				A	X	-	-	-
Sulfur dioxide liquid					X	X	-	-
Sulfuric acid fuming oleum	20			C	X	X	-	-
Sulfuric acid,above	50							
Sulfuric acid up to	50							
Sulfuric acid above	50					X		
Sulfurous acid					X	-		
Sulfur, molten								
Sulphuric acid	10	21	10		X	A		
Sulphuric acid	30	80	1000		X	-		
Tannic acid	10				X	A	X	B
Tartaric acid				B	X	B		
Tetrahydrofuran		21	500		X	X	-	-
Tetrahydrofuran								
Tetraline					X	-	-	-
Toluene		21	1000	C	X	X	A	A
Toluene								
Tributyl phosphate					X	-	-	X
Trichlorethane					X	X	-	-
Trichloroethylene		21	10000				A	X
Trichloroethylene				C	X	-		
Triethanolamine					B	B	A	-
Trisodium phosphate solution				B	B	-	-	-
Tung oil					B	B	A	A
Turpentine		21	10000	B	B	A	B	-
Urea	20			B	B	-	-	-
Vaseline		80	1000					
Vegetable oils		80	1000	B	-	B	-	A
Water		100		B				
Water		70		B				
Water		23		A	A	A	A	A
White spirit		21	1000			C	A	A
Xylene				C	X	C	-	-
Xylene		60	1000					
Zinc chloride	3	100	10	B				
Zinc chloride solutions				B	B	B	X	X

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