

**Chemical
Resistance
Charts**



Chemical Resistance Charts

Chemical	%	PVC PU		TPR	Nylon	Nylon
					PA6	PA12
Antimony Salts						B
Aqua Regia					D	D
Aromatic Fuels		D				
Aromatic Hydrocarbons		D				
Asphalt		D				
ASTM Fuel A		C	A			
ASTM Fuel B		D	B			
ASTM Fuel			B			
ASTM Oil No. 1		B	B	B		
ASTM Oil No. 2			B			
ASTM Oil No. 3		C	B		A	A
Attar of Roses					A	A
B						
Banana Oil		D				
Barium Carbonate			B			
Barium Chloride		A				
Barium Hydroxide		A	B			
Barium Salts					A	A
Barium Sulfide		A				
Battery Acid	30%					
Benzaldehyde	0.3%			A		A
Benzaldehyde			D	C		A
Benzene		D	D	A		A
Benzine (Petroleum Ether)		C	B			
Benzoic Acid			C		B	B
Benzole					A	A
Benzyl					C	C
Bitumen					A	A
Borax		A			A	A
Bordeaux Mixture		A				
Boric Acid		A	B		B	A
Brake Fluid					A	A
Brake Fluid A			B			
Brine		A				
Bromine			B		C	C
Bunker Oil			B			
Butane			B		A	A
Butanol					A	B
Butyl Acetate		D	D	A	A	A
Butyl Alcohol		B	B			
Butylene Glycol					B	A
Butyric Acid					B	A
C						
Calcium Carbonate			B			
Calcium Chloride	10%			A	A	A
Calcium Chloride	20%	A	B	A	D	C
Calcium Hydroxide		A	B			
Calcium Hypochlorite		A				
Calcium Nitrate			B			

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Chemical	%	PVC PU		TPR	Nylon	Nylon
					PA6	PA12
Calcium Sulfate				B		
Camphor					A	A
Carbolic Acid (Phenol)		B				
Carbon Dioxide		A	A			
Carbon Disulfide		D	B		A	A
Carbon Tetrachloride		D	D		A	B
Carbonic Acid		A				
Casein		A				
Castor Oil		A	B			
Catechol	6%				C	B
Caustic Soda	40%	A			A	A
Cello-Solv		D				
Chlorinated Hydrocarbons		B				
Chlorinated Lime					D	D
Chlorine			B		D	D
Chlorine (water solution)	<5%	C			C	B
Chlorine Gas (dry & wet)	<5%	D			C	B
Chloroacetic Acid			C		D	D
Chlorobenzene		D			A	C
Chlorobromomethane					B	B
Chloroform			D		C	C
Chrome Baths					D	C
Chromic Acid	1%		D		C	B
Chromic Acid	10%	B	D		D	C
Chromic/Sulfuric Acid					D	D
Chromium Potassium Sulfate			B			
Chromium Salts					A	A
Citric Acid		A	B			
Coal Tar		D				
Coconut Oil		C				
Copper Salts	10%				A	A
Corn Oil		A				
Cottonseed Oil		C	B			
Creosote		D				
Cresol		C	D		D	D
Cresylic Acid		D				
Cupric Chloride			B			
Cupric Nitrate			B			
Cupric Sulfate			B			
Cyclohexane		B		D	A	A
Cyclohexanol					A	A
Cyclohexanone			D		A	A
D						
DDT Weed Killer		A				
Decalin					A	A
Degreasing Fluids		D				
Detergents (dishwashing)				A	A	A
Di Iso Cyante		C				
Di Methyl Formamide		D				
Di Methyl Hydrazine		D				
Dibutyl Ether			B			
Dichlorobenzene		D	D		A	A
Dibutyl Phthalate			C			
Diesel Fuel		D	B		A	A
Diesel Oils		C			A	A

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Chemical	%	PVC	PU	TPR	Nylon PA6	Nylon PA12
Diester Oil				B		
Diethyl Ether		A		A	A	A
Diethylene Glycol		B				
Di-isodecyl Phthalate		D				
Dimethyl Acetamide				D		
Dimethyl Formamide				D	A	A
Diethyl Phthalate		D		A	A	A
Dioxane				A	A	A
Dodecyl Mercaptan				B		
DOP		D				
Dow General Weed Killer (H2O)		B				
Dow General Weed Killer (Phenol)		D				
Dowtherm		D				
DTE Oil				B		
E						
Edible Fats and Oils					A	A
Ehtylene Chloride					A	B
Esters		D				
Ether		D	B		A	A
Ethyl Acetate			D		A	A
Ethyl Alcohol		C	B		A	A
Ethyl Bromide			C			
Ethyl Chloride			C			
Ethylene Dichloride		D				
Ethylene Glycol		B	B			
F						
Fatty Acids		A			A	A
Ferric Chloride		A	B			
Ferric Nitrate			B			
Ferric Sulfate		A				
Ferrous Chloride		A	B			
Ferrous Sulfate		A	B			
Flourochlorohydrocarbons					A	A
Formaldehyde	40%	D	B		C	B
Formalin					B	B
Formamide					B	B
Formic Acid	85%				D	C
Formic Acid	10%	A	D		C	C
Formic Acid	40%				D	C
Freon			C	C	A	A
Freon 12				C	A	A
Freons		D		C		
Fuel Oil		B	B		A	A
Furfurool		C			B	B
G						
Gallic Acid		A				
Gasoline - 100 Octane		C	B			
Glycerine		A	B		A	A
Glycol					A	A
Glycolic Acid			B			
Grease		A	B			
Green Sulfate Liquor		A				

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Chemical	%	PVC	PU	TPR	Nylon PA6	Nylon PA12
H						
Heptachlor in Petroleum Solvents		A				
Heptane		C	B		A	A
Hexane		C	B		A	A
Hydraulic Fluids - Ester Base		D			A	A
Hydraulic Fluids - Petroleum Base		C			A	A
Hydrazine			D			
Hydrobromic Acid		A				
Hydrocarbon Oil						
Hydrochloric Acid	40%	C				
Hydrochloric Acid	1%				C	B
Hydrochloric Acid	10%	A		A	D	C
Hydrocyanic Acid			B			
Hydrofluoric Acid			B			
Hydrofluoric Acid	70%	C				
Hydrofluoroboric Acid		A				
Hydrofluorosilicic Acid		A				
Hydrogen			A			
Hydrogen Chloride	<2%				C	B
Hydrogen Chloride	>2%				D	C
Hydrogen Fluoride	40%				D	D
Hydrogen Peroxide	2%				C	
Hydrogen Peroxide	30%				D	D
Hydrogen Peroxide	10%	A	B		C	
Hydrogen Sulfide	<5%		C		A	A
Hydroiodic Acid						
Hydraulic Fluid					A	A
I						
Ink		C			A	A
Iodine Solution						
Iron Salts - Acid Soln.	20%				D	C
Iron Salts - Neut. Soln.	20%				A	A
Isooctane		C	B		A	A
Isopropanol						
Isopropyl Acetate		D				
Isopropyl Alcohol					A	
J						
Jet Fuels (JP-3,4, and 5)		C				
JP-4 Oil			C			
K						
Kerosene		C			A	A
Ketones		D				
L						
Lacquer Thinners		D				
Lactic Acid	90%				D	
Lactic Acid	50%				C	
Lactic Acid	5%		B			A
Lanolin					A	A
Lead Acetate						
Lead Salts					A	A
Linseed Oil		A			A	A
Lox						
Lubricating Oils, Greases, Soaps		A			A	A

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Chemical	%			Nylon	
		PVC	PU	PA6	PA12
M					
Magnesium Chloride			A		
Magnesium Hydroxide	10%		A	A	A
Magnesium Salts	10%		B	B	B
Magnesium Sulfate			A		
Malathion 50 in Aromatics			D		
Malic Acid			A	C	
Mercury				A	A
Mercury Salts				A	A
Methanol			B	A	B
Methyl Acetate			D		
Methyl Alcohol			C		
Methyl Bromide			D		
Methyl Ethyl Ketone			D	D	A
Methylene Chloride			D	D	B
MIL-D5606 Oil					C
MIL-L-7808 Oil					B
Mineral Oil			A	A	A
Monochlorobenzene			D		
Motor Fuels					A
Motor Oil 20W			B		A
Muriatic Acid (See Hydrochloric Acid)					
N					
Naphtha			C	B	
Naphthalene			D		A
Natural Gas				B	
Nickel Salts				C	A
Nitric Acid	10%		A		
Nitric Acid	35%		A		
Nitric Acid	70%		D		
Nitrobenzene				D	A
Nitrogen				A	
Nitromethane					A
O					
Octane					A
Oil of Turpentine					A
Oleic Acid			A	B	A
Oleum			D		D
Oxalic Acid	10%		A	A	A
Oxygen				A	A
Oxygen - Liquid			D		
Ozone	<1 PPM			A	A
P					
Paint			D	B	
Paint Thinners			D		
Palmitic Acid			A		
Paper Chemicals			A		
Paraffin Oil					A
Pentachlorophenol in Oil			B		
Pentane			C		
Perchloric Acid				D	
Perchloroethylene			D	D	A
Petroleum				B	A
Petroleum Ether			C		A

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Petroleum Spirits		D				
Phenol		B	D		C	C
Phenyl Ethyl Alcohol					B	C
Phosphoric Acid	10%		B		C	B
Phosphoric Acid	50%				C	C
Phosphoric Acid	85%	A				
Photographic Developer		A				
Phthalates		D				
Pitch		B				
Plasticisers (Phthalates, Phosphates)					A	A
Polyester Resin with Styrene					A	A
Potash					A	A
Potassium Bromide	10%				A	A
Potassium Chlorate	7%				C	B
Potassium Chlorate	5%				B	A
Potassium Cyanide			B			
Potassium Hydroxide		A		A		
Potassium Hydroxide	50%				A	A
Potassium Iodide	10%				A	A
Potassium Nitrate	10%				A	A
Potassium Permanganate	1%				D	D
Potassium Salts			B			
Potassium Sulfate	10%				A	A
Propane		A	B		A	A
Propanol				A	A	B
Propyl Alcohol		B	C			
Propylene Glycol			B			
Pydraul		D		B		
Pydraul Oil			D			
Pyridine				A	A	A
R						
Resorcinol					D	D
Ritchfield "A" Weed Killer		C				
S						
Salicylic Acid					A	A
Salt					A	A
Sea No. 10 Oil			B			
Seawater		A	B	A	A	A
Silicic Acid			B			
Silicone Oil		A			A	A
Silver Nitrate		C	B			
Silver Salts					A	A
Skydrol Oil - Type B		D	D	A	A	A
Soap			B			
Soap Solution	10%				A	A
Sodium Acetate			B			
Sodium Bicarbonate			B		A	A
Sodium Bisulfite	10%		B		A	A
Sodium Borate			B			
Sodium Bromide	10%				B	A
Sodium Carbonate			B			
Sodium Carbonate	10%				A	A
Sodium Chlorate			B			
Sodium Chloride			B	A	A	A
Sodium Chlorite	5%				C	C

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					PA6	PA12
Sodium Cyanide		A	B			
Sodium Dichromate			B			
Sodium Ferrocyanide			B			
Sodium Fluoride			B			
Sodium Hydrosulfite			B			
Sodium Hydroxide			B	A		
Sodium Hydroxide	40%			A	A	A
Sodium Hydroxide	50%	A		A		
Sodium Hypochlorite	5%				C	B
Sodium Nitrate			B			
Sodium Nitrate	10%				A	A
Sodium Nitrite	5%				C	B
Sodium Perborate	5%				B	A
Sodium Phosphate	10%				A	A
Sodium Silicate			B			
Sodium Sulfate	10%				A	A
Sodium Sulfide	10%		B		A	A
Sodium Sulfite	10%				A	A
Sodium Thiosulfite					A	A
Solvent Naphtha					A	A
Solvesso		D				
Stoddard Solvent		D				
Styrene		D	B			
Sulfur					A	A
Sulfur Dioxide	<5%		B		C	B
Sulfur Dioxide (Liquid)		D				
Sulfuric Acid	2%				D	B
Sulfuric Acid	10%				D	B
Sulfuric Acid	20%		D			
Sulfuric Acid	25%				D	C
Sulfuric Acid	50%	A				
Sulfuric Acid	98%	D		A		
Sulfurous Acid		B				
T						
Tall Oil		D				
Tallow					A	A
Tannic Acid		A	C			
Tar					A	A
Tartaric Acid	10%		B		A	A
Tea					A	A
Tetra Ethyl Lead		D				
Tetra Hydro Furan		D			A	A
Tetraline					A	A
Thionyl Chloride					D	D
Tin Salts			B			
Titanium Salts			B			
Toluene		D	D		A	A
Toluol		D				
Transformer Oil			C		A	A
Transmission Oil			B			
Trichlorethane		D				
Trichlorethylene		D		F	B	B
Trichloroacetic Acid			D			
Trichloroethylene			D			
Tricresyl Phosphate			D			

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