

CHEMICAL Formula	ELASTOMERS							METAL PARTS			PLASTICS				
	POLYURETHANE	NEOPRENE	BUNA-N	E.P.D.M.	HYTREL®	(VT) FKM FLUOROCARBON	PTFE, PFA	(TPE XL) SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	HASTELLOY	POLYPROPYLENE	ACETAL	PVDF
Acetaldehyde (Ethanal) <chem>CH3CHO</chem>	X	X	X	A	B	X	A	B	A	B	A	A	C	A	A ^{150°}
Acetamide (Acetic Acid Amide) <chem>CH3CONH2</chem>	X	B	B	A		B	A	A	A	X	X	A	A		A ^{140°}
Acetate Solvents <chem>CH3COOR</chem>		X	X			X	A	B	A		A		X	A	A
Acetic Acid — 20%	B	B	C	A	A	C	A	B		A	A	C	B	A	B
Acetic Acid — 30%	X	B	C	A	A	X	A	B	X	A	A	C	B	B	B
Acetic Acid — 50% <chem>CH3COOH</chem>	C	C	C	A		C	A	B	X	A	A	C	B	B	B
Acetic Acid — Glacial <chem>CH3COOH</chem>	X	X	C	B	A	X	A	B	B	X	A	A	C	B	A ^{120°}
Acetic Anhydride (Acetic Oxide) <chem>(CH3CO)2O</chem>	X	B	C	B	C	X	A	A	B	^{90%} B ^{212°}	A	A	X	X	B ^{70°}
Acetone (Dimethylketone) <chem>CH3COCH3</chem>	X	X	X	A	C	X	A	B	B	A	A	A	X	B ^{120°}	X
Acetone Cyanohydrin <chem>(CH3)2C(OH)CN</chem>	X	B	X	X		X	A	A	B	B	B				
Acetonitrile (Methyl Cyanide) <chem>CH3CN</chem>		A	C	A		X	A	A	A	A	A	B ^{100°}		A	A
Acetophenone (Phenyl Methyl Ketone) <chem>C6H5COCH3</chem>	X	X	X	A		X	A	B	B	A	A	B	A ^{70°}		A
Acetyl Acetone (2,4-Pentanedione) <chem>CH3COCH2COCH3</chem>	B	X	X	A		X	A	B	X	B	B				
Acetyl Chloride <chem>CH3COCl</chem>		X	X	C	X	B	A	B	X	A	B	A	X		A
Acetylene (Ethyne) <chem>HC≡CH</chem>		C	A	A	A	A	A	C	A	A	A	A	X	A	A
Acetyl Salicylic Acid (Aspirin) <chem>(CH3OCO) • C6H4COOH</chem>	X		B				A	A	X	B	B				
Acetylene Tetrabromide (Tetra Bromoethane) <chem>(CHBr2)2</chem>		X	X			A	A	X	X	A					
Acrolein (Acrylicaldehyde) <chem>H2C=CHCHO</chem>		B				A	A	A	B	B	B				
Acrylonitrile (Vinyl Cyanide) <chem>CH2=CHCN</chem>	X	X	X			X	A	B	A	A	A	A	B		A
Adipic Acid (1,4-Butanedicarboxylic Acid)		X	B			A	A	B	B	B	B	A	A		A
Allyl Alcohol (2-Propen-1-ol) <chem>CH2CHCH2OH</chem>		A	A	A		B	A	B	A	A	A				A
Alcohols R-OH					B							A	A	A	A
Amyl (1-Pentanol) <chem>C4H9CH2OH</chem>		B	B			B	A	A	B		A	A	B	A	A
Benzyl (Phenylcarbinol) <chem>C6H5CH2OH</chem>		B	X			A	A	A	B		A	A	A		A
Butyl (Butanol) <chem>C3H7CH2OH</chem>		A	A			A	A	A	B		A	A	B	A	A

RATING KEY: (A) Excellent (B) Good (C) Fair to Poor (X) Not Recommended No Data Available.

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	POLYURETHANE	NEOPRENE	BUNA-N	E.P.D.M.	HYTREL®	(VT) FKM FLUOROCARBON	PTFE, PFA	(TPE X) SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	HASTELLOY	POLYPROPYLENE	ACETAL	PVDF
Diacetone (Tyranton) $(\text{CH}_3)_2\text{C}(\text{OH})\text{CH}_2\text{COCH}_3$	C	X	X	B		X	A	C	A	A	A	A	X	A	A
Ethyl (Ethanol) $\text{CH}_3\text{CH}_2\text{OH}$	X	A	A		X	B	A	B	B	B	A	A	A^{100°		A
Hexyl (1-Hexanol) $\text{C}_6\text{H}_{11}\text{CH}_2\text{OH}$		B	A			A	A	B	A		A	A	A^{70°		A
Isobutyl (2-Methyl-1-Propanol) $\text{C}_3\text{H}_7\text{CH}_2\text{OH}$	X	A	C			A	A	A	B		A	A			A
Isopropyl (2-Propanol) $\text{H}_3\text{CCH}(\text{OH})\text{CH}_3$		B	C			A	A	B	B	C	A	A	A		A^{150°
Methyl (Methanol) CH_3OH		A	A	X		X	A	A	B	A	A	A	A^{120°		A
Octyl (Caprylic Alcohol) $\text{C}_8\text{H}_{17} \cdot \text{CH}_2\text{OH}$		B	B			A	A	B	A		A	A			
Propyl (Propanol) $\text{C}_3\text{H}_7\text{CH}_2\text{OH}$		A	A			A	A	A	A		A	A	A		A^{120°
Allyl Bromide (3-Bromopropene) $\text{H}_2\text{C}=\text{CHCH}_2\text{Br}$		X	X	X		B	A		X	A					
Allyl Chloride (3-Chloropropene) $\text{CH}_2=\text{CHCH}_2\text{Cl}$		X	X	X		B	A		X	C	B		A^{70°		A
Alkazene® (Chlorethyl or Polyisopropyl benzenes)		X	X			A	A	X							
Almond Oil (Artificial)	X	X	X	B		X	A								
Alum (Aluminum Potassium Sulfate Dodecahydrate) $\text{KAl}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$		A	A	A		X	A	A		B	B	A			A
Aluminum Acetate (Burow's Solution)		C	C	A		X	A	A		B	C	A	A	A^{100°	
Aluminum Bromide AlBr_3		A	A			A									A
Aluminum Chloride AlCl_3	B	A	A	A	B	A	A	20% A	X	C	B	25% A	A	B	A
Aluminum Fluoride AlF_3		A	A	B		A	A	A	50% A	C	C	20% A	A	X	A
Aluminum Hydroxide (Alumina Trihydrate) $\text{Al}(\text{OH})_3$		A	B	A		C	A	A	10% B	30% B	B	10% B	A		A
Aluminum Nitrate $\text{Al}(\text{NO}_3)_3 \cdot 9\text{H}_2\text{O}$		A	A	A		A	A	A	X		0% A	0% B	A		A
Aluminum Phosphate AlPO_4		A	A	A		A	A	A							
Aluminum Potassium Sulfate (Potash Alum) $\text{KAl}(\text{SO}_4)_2$		A	A	A		A	A	A	10% A	X	A	B	A	A	A
Aluminum Sodium Sulfate (Soda Alum) $\text{NaAl}(\text{SO}_4)_2$	A	A	A	A		A	A								

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	POLYURETHANE	NEOPRENE	BUNA-N	E.P.D.M.	HYPREL®	(V) FKM FLUOROCARBON	PTFE, PFA	(TPE X) SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	HASTELLOY	POLYPROPYLENE	ACETAL	PVDF
Aluminum Sulfate (Cake Alum) $\text{Al}_2(\text{SO}_4)_3$	A	A	A	A	B	A	A	A	30% B	X	50% A ^{167°}	90% A ^{212°}	A	B	A
Amines $\text{R}-\text{NH}_2$		B	X		A ^{70°}	X		A	A		A		B	C	
Ammonia Anhydrous, Liquid NH_3	X	B	B	A	X	X	A	A	A	A	A	A	A	X	A
Ammonia Gas — Cold		A	A			A	A	A							
Ammonia Gas — Hot		B	C			X	A	A							
Ammonia Liquors	A					X	A	A	A	A	A	A			
Ammonium Nitrate NH_4NO_3	B	A	A	B		A	A	A	B	B	A	A	A	B	A
Ammonium Cupric Sulfate $(\text{NH}_4)_2\text{Cu}(\text{SO}_4)_2$		A				A	A								
Ammonium Acetate $\text{CH}_3\text{CO}_2\text{NH}_4$	A					A	A	A	50% B	50% A					
Ammonium Bicarbonate NH_4HCO_3	A	A	A			A	A	B	B	90% B					
Ammonium Bifluoride — 10% NH_4HF_2	X	B					A	A	C	X	B	B	A		A
Ammonium Carbonate $(\text{NH}_4)_2\text{CO}_3$	B	X	A			A	A	A	B	B	70% B ^{212°}	70% B ^{212°}	A		A
Ammonium Casenite	A							A			A				
Ammonium Chloride (Sal Ammoniac) NH_4Cl	A	A	A	A	A	A	A	A	X	X	B	A	A	X	A
Ammonium Dichromate $(\text{NH}_4)_2\text{Cr}_2\text{O}_7$		A	A	A			A	A	A	30% A					
Ammonium Fluoride NH_4F	B	B				20% A	A		10% B	20% B	B	40% A	B		A
Ammonium Hydroxide (Aqua Ammonia) NH_4OH	A	B	B	A		B	A	A	30% A	30% B	50% A	80% A	A	B	A
Ammonium Metaphosphate	A	A	A			A	A		90% B	B	B	A	A		A
Ammonium Nitrite NH_4NO_2	A	A					A	A					70% A		A
Ammonium Oxalate $(\text{NH}_4\text{OOC})_2$	A	A						A			A	A			
Ammonium Persulfate $(\text{NH}_4)_2\text{S}_2\text{O}_8$	X	A	C	B		A	A	A	C	X	A		A		A
Ammonium Phosphate, Monobasic $(\text{NH}_4)_2\text{HPO}_4$		A	A	A	B	A	A	A	X	X	B	5% A	A		A
Ammonium Phosphate, Di-Basic $(\text{NH}_4)_2\text{HPO}_4$		A	A			A	A	A	B		A	A	A	B	A
Ammonium Phosphate, Tri-Basic $(\text{NH}_4)_3\text{PO}_4 \cdot 3\text{H}_2\text{O}$		A	A			A	A	A	X		B	B	A		A
Ammonium Sulfate $(\text{NH}_4)_2\text{SO}_4$	A	A	A	A	C	A	A	A	X	B	80% A ^{212°}	40% B	A	B	A
Ammonium Sulfide $(\text{NH}_4)_2\text{S}$		A	A			A	A		B		B	10% A			

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	POLYURETHANE	NEOPRENE	BUNA-N	E.P.D.M.	HYTREL®	(VT) FKM FLUOROCARBON	PTFE, PFA	(TPEX) SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	HASTELLOY	POLYPROPYLENE	ACETAL	PVDF
Ammonium Sulfite $(\text{NH}_4)_2\text{SO}_3 \bullet \text{H}_2\text{O}$			A			A	A		C	X	B	A^{212°	A	X	
Ammonium Thiocyanate NH_4SCN		A	A	A		A	A		C	C	$50\% \text{A}$	$50\% \text{A}$			
Ammonium Thiosulfate $(\text{NH}_4)_2\text{S}_2\text{O}_3$		A	A	A		A	A	A	$40\% \text{A}$	X	$10\% \text{A}$				
Amyl Acetate (Banana Oil) $\text{CH}_3\text{CO}_2\text{C}_5\text{H}_{11}$	X	X	X	A	C	X	A	B	A	B	A	B	X	X	A^{120°
Amyl Alcohol (Pentyl Alcohol) $\text{CH}_3(\text{CH}_2)_4\text{OH}$	X	A	B	A	A	A	A	B	A	A	A	B	A		A
n-Amyl Amine (1-Aminopentane) $\text{CH}_3(\text{CH}_2)_4\text{NH}_2$		X	C	X		X	A								
Amyl Borate $\text{C}_5\text{H}_{11}\text{BO}_3$		B	A			A	A	B							
Amyl Chloride (Chloropentane) $\text{CH}_3(\text{CH}_2)_4\text{Cl}$		X	X	X		A	A	C	X	A	A	B	X	A	A
Amyl Chloronaphthalene		X	B			A	A	C							
Amyl Naphthalene $\text{C}_{15}\text{H}_{18}$		X	X	X		A	A	C							
Amyl Phenol $\text{C}_6\text{H}_5(\text{OH})\text{C}_5\text{H}_{11}$			X			A	A		A	A	A	A			
Aniline (Aniline Oil) (Amino Benzene) $\text{C}_6\text{H}_5\text{NH}_2$	X	X	X	C	X	B	A	B	B	A	A	B	A	A	A
Aniline Dyes	X	C	C	C		B	A	B	B	B	C	B			
Aniline Hydrochloride $\text{C}_6\text{H}_5\text{NH}_2 \bullet \text{HCl}$		X	C			B	A	A	X	X	X		X		A
Animal Fats & Oils	A	C	A	B	B	A	A	C	A	X	A	A			A
Animal Gelatin	A	A	A	A		A	A				A				
Anisole (Methylphenyl Ether) $\text{C}_6\text{H}_5\text{OCH}_3$		X				X	A		B	B	B	B			
Ansul Ether		X	C			X	A	X							
Anthraquinone $\text{C}_{14}\text{H}_8\text{O}_2$							A		B	B	B	A			
Anti-Freeze (Alcohol Base)	X	A	A	A		A	A		A	A	A	A			
Anti-Freeze (Glycol Base) (Prestone® Etc.)	B	B	A	A		A	A	A	A	A	A	A			
Antimony Pentachloride SbCl_5			X			A			A	A	A	A			
Antimony Trichloride SbCl_3			B	A		A	A		B	A	A	B	A		A
Aqua Regia (Nitric & Hydrochloric Acid)	X	X	X	X		B	A	X	X	X	X	C	C	X	A
Aroclor® PCB mixtures		X	C	X		A	A		A	B	A	$90\% \text{A}$	X		
Aromatic Hydrocarbons $\text{C}_6\text{H}_5\text{R}$		X	X		C	A	A	C	A	A	A				
Aromatic Solvents (Benzene Etc.)	X	X	C	X		B	A		A	B	A	B			

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	POLYURETHANE	NEOPRENE	BUNA-N	E.P.D.M.	HYPREL®	(V) FKM FLUOROCARBON	PTFE, PFA	(TPE X) SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	HASTELLOY	POLYPROPYLENE	ACETAL	PVDF
Arsenic Acid <chem>AsH3O4</chem>	X	A	B	A		A	A	A	A	X	B	B	A		A
Arsenic Trichloride (Arsenic Butter) <chem>AsCl3</chem>		A	C	X		X	A	B	B	B	X	B			
Ascorbic Acid <chem>C6H8O6</chem>						A	A		A	X	A				
Askarel® (Pyranol®) PCB mixtures	X	X	B	X		C	A	X			A				
Asphalt Hydrocarbons	B	C	B	X	B	A	A	B	A	B	A		A	B	A
Asphalt Topping Hydrocarbons		A	C		B	C	A			A	A				
ASTM — Ref Motor Fuel A (Aliphatic) Hydrocarbons	A	B	A	X	A	A	A		A	A	A	A			
ASTM — Ref Motor Fuel B (30% Aromatic) Hydrocarbons	B	X	A	X	A	A	A		A	A	A	A			
ASTM — Ref Motor Fuel C (50% Aromatic) Hydrocarbons	X	X	B	X	C	A	A		A	A	A	A			
ASTM — Ref #1 Oil (High Aniline) Hydrocarbons	A	B	A	X	A	A	A	A	A	A	A	A			
ASTM — Ref #2 Oil (Medium Aniline) Hydrocarbons	B	B	A	X	A	A	A	A	A	A	A	A			
ASTM — Ref #3 Oil (Low Aniline) Hydrocarbons	B	C	A	X	A	A	A	B	A	A	A	A			
ASTM — Ref #4 Oil (High Aniline) Hydrocarbons	X	X	B	X		A	A		A	A	A	A			
Aviation Gasoline Hydrocarbons		C	A	X		A	A		A	A	A	A			
Barbeque Sauce Water, oils, spices		A	A					A		X	A				
Barium Carbonate <chem>BaCO3</chem>		A	A	A		A	A	A	X	B	B	B	A		A
Barium Chloride Dihydrate <chem>BaCl2 • 2H2O</chem>	A	A	A	A		A	A		50% B	B	B ^{212°}	B		A	A
Barium Cyanide <chem>Ba(CN)2</chem>		A	C		X	A		A			A		X		
Barium Hydroxide (Barium Hydrate) <chem>Ba(OH)2</chem>	A	A	A	A	B	A	A	A	X	B	50% A ^{122°}	B	A		A
Barium Nitrate <chem>Ba(NO3)2</chem>		A	A					A	A	B	A	A	A	B	A
Barium Sulfate (Blanc Fixe) <chem>BaSO4</chem>	A	A	A	A	X	A	A	A	B	B	B		A	B	A
Barium Sulfide <chem>BaS</chem>	A	A	A	A		A	A	A	X		B	A	A	A	A
Beef Extract		A	A			A	A			X	A				
Beer Water, carbonate	X	A	C	A	B	A	A	A	A	X	A	A	A ^{75°}	A	A ^{175°}
Beet Sugar Liquors (Sucrose)	X	A	A	A		A	A	A	A	B	A		A	B	A

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Benzaldehyde <chem>C6H5CHO</chem>	X	X	X	B	B	X	A	B	A	A	A	A	X		A
Benzene (Benzol) <chem>C6H6</chem>	X	X	X	X	C ^{70°}	B	A	C	B	B	A ^{167°}	B	X	A	B
Benzene Sulfonic Acid <chem>C6H5SO3H</chem>		A	C	C		A	A		C	A	A	90% A	X		B ^{100°}
Benzoic Acid (Benzene Carboxylic Acid) <chem>C6H5COOH</chem>		B	X	B		A	A		B	X	B	70% A	X	B	A
Benzoyl Chloride <chem>C6H5COCl</chem>	X	X	X	X		B	A		X	A	B	B			A
Benzyl Acetate <chem>CH3CO2 • H2C6H5</chem>			X			X	A		A	A	A	B			
Benzyl Alcohol <chem>C6H5CH2OH</chem>		C	X	C		A	A		A	A	A	B	A		A
Benzyl Benzoate <chem>C6H5CO2CH2C6H5</chem>		X	X	B		A	A	C	A	B	B	B			
Benzyl Chloride (Chlorotoluene) <chem>C6H5CH2Cl</chem>	X	X	X	X		A	A	C	X	A	B	A	X	A	A
Benzyl Dichloride (Benzal Chloride) <chem>C6H5CHCl2</chem>			X			A			X	B	A	B			
Biphenyl (Diphenyl) <chem>C6H5C6H5</chem>		X	X	X		A	A		A	A					
Bismuth Subcarbonate (Bismuth Carbonate) <chem>(BiO)2CO3</chem>		A	A	A		A	A					10% B			
Black Sulfate Liquor	X	A	B	A	B	A	A		C	B	A	B			
Blast Furnace Gas <chem>CO, H2, CH4, CO2, N2</chem>		A	C		B	A	A	A							
Bleach Solutions Water, chlorine, oxygen		X	X	A	C	B	A	B	X		B	A ^{125°}	X		
Borax (Sodium Borate) <chem>B4Na2O7</chem>	A	A	B	A	A	A	A	A	B	B	A	A	A	B	A
Bordeaux Mixture Copper sulfate salts		A	A	A	B	B	A	A			A	A			
Boric Acid (Boracic Acid) <chem>H3BO3</chem>	A	A	A	A	A	A	A	A	X	30% A	80% A ^{167°}	A	C	A	
Brake Fluid (Non-Petroleum Base) Silicones or glycols		A	X	A			A	A	A	A	A	A	X		
Brewery Slop		A	A			A	A	A		A	A				
Brine (Sodium Chloride) Salt water	A	B	A	A	B	A	A			X	A	A	A		A
Bromine — Anhydrous <chem>Br2</chem>	X	X	X	C	X	A	A	C	B	C	X	A	X		A ^{150°}
Bromine Trifluoride <chem>BrF3</chem>	X	X	X	X		X	A	C	A		B		X		
Bromine Water		B	X	X		B	A	B	X	X	X	A	X		A

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Bromobenzene <chem>C6H5Br</chem>	X	X	X	X		B	A	X	X	B	A	B	X	
Bromo-chloromethane <chem>BrCH2Cl</chem>		X	X	B		C	A		X	B	B	B		
Bromotoluene <chem>C6H4BrCH3</chem>			X			B	A		X	A	A	A		
Bronzing Liquid	X	X	X	B		X	A	A			A	A		
Bunker Oil (Fuel) #5, #6 & C Hydrocarbons	C	B	A	X		A	A	B	A	A	A	A		
Butadiene <chem>C4H6</chem>	X	C	X	C		C	A	C	A	A	A		X	A
Butane (LPG) (Butyl Hydride) <chem>C4H10</chem>	B	B	A	X	A	A	A	C	A	A	A	A	X	B
Butter Fats	A	C	A	A	B	A	A	B	A	X	A			
Buttermilk Fats, water		A	A			A		A	A		A		A	A
Butyl Acetate <chem>CH3CO2(CH2)3CH3</chem>	C	X	X	B	C	X	A	B	A	A	A	A	X	B
n-Butyl Acetate <chem>CH3CO2(CH2)3CH3</chem>		X	X	X		X	A	A	A	A	A	A		
Butyl Acetyl Ricinoleate <chem>C24H40O5</chem>		X	C	C		B	A	B			A			
Butyl Acrylate <chem>CH2CHCO2C4H9</chem>		X	X	X		X	A	C						C
Butyl Alcohol (Butanol) <chem>CH3(CH2)3OH</chem>	X	A	A	B	B	A	A	A	A	B	A	A	A	A
Butyl Amine (Aminobutane) <chem>CH3(CH2)2CH2NH2</chem>	X	X	B	X		X	A	A	A	A	A		X	C
Butyl Benzoate <chem>C6H5COO • (CH2)3CH3</chem>		X		B		A	A	C	B	B	B	B		
Butyl Bromide <chem>CH3(CH2)2CH2Br</chem>			X			B	A							A
Butyl Butyrate <chem>CH3(CH2)2 • CH2CO2C4H9</chem>			X			X	A		A	A	A	A		
Butyl Carbitol® <chem>CH3(CH2)3OCH2CH2OCH2CH2OH</chem>		B	A	A		A	A	B						
Butyl Cellosolve® <chem>HOCH2CH2OC4H9</chem>		C	B			C	A	A						B
Butyl Chloride (Chlorobutane) <chem>CH3(CH2)3Cl</chem>			X			A	A		X	B	B	B	X	A
Butyl Ether (Dibutyl Ether) <chem>(CH3(CH2)3)2O</chem>		B	A			C	A		A	B	A	A	X	A ^{100%}
Butyl Oleate <chem>C22H40O2</chem>		X		C		A	A	C						
Butyl Stearate <chem>CH3(CH2)16CO2(CH2)3CH3</chem>		X	A	C		B	A	C	B	B	B	B		A
Butylene (Butene) <chem>C4H8</chem>	X	X	B	X		B	A	X	A		A		X	A

RATING KEY: (A) Excellent (B) Good (C) Fair to Poor (X) Not Recommended No Data Available.

CHEMICAL Formula	ELASTOMERS							METAL PARTS			PLASTICS				
	POLYURETHANE	NEOPRENE	BUNA-N	E.P.D.M.	HYTREL®	(V) FKM FLUOROCARBON	PTFE, PFA	(TPEX) SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	HASTELLOY	POLYPROPYLENE	ACETAL	PVDF
Butyraldehyde <chem>CH3(CH2)2CHO</chem>	C	X	X	C		X	A	C	A	A	A	A			
Butyric Acid <chem>CH3(CH2)2CO2H</chem>		X	C	C	B	C	A	A	A	X	B	A	A	X	A
Butyronitrile <chem>CH3CH2CH2CN</chem>		X	X	A			A								
Calcium Acetate Hydrate <chem>Ca(CH3COO)2 • H2O</chem>		C	B	A		X	A		C	C	B	B			
Calcium Bisulfite <chem>Ca(HSO3)2</chem>	A	A	A	X	X	A	A		X	X	90% A	A	A	X	
Calcium Carbonate (Chalk) <chem>CaCO3</chem>		A	A	A		A	A	A	C	B	B	B	A	A	A
Calcium Chlorate <chem>Ca(ClO3)2</chem>		A	A	A		A	A		30% B	B	0% B	70% B	A		A
Calcium Chloride (Brine) <chem>CaCl2 • 6H2O</chem>	A	A	A	A	A	A	A	A	A	A	A	A	A	X	A
Calcium Hydrosulfide (Calcium Sulphydrate) <chem>Ca(HS)2 • 6H2O</chem>			A			A	A								
Calcium Hydroxide (Slaked Lime) <chem>Ca(OH)2</chem>	A	A	A	A	B	A	A	A	X	B	50% B	50% A	A	X	A
Calcium Hypochlorite 20% (Calcium Oxichloride) <chem>Ca(ClO)2</chem>	X	X	C	B	9% A	B	A	A	X	X	B	B ^{125°}	A	A	A
Calcium Nitrate <chem>Ca(NO3)2</chem>	A	A	A	A		A	A	A	40% B ^{212°}	30% B ^{212°}	50% B ^{212°}	10% B	A	X	A
Calcium Oxide (Unslaked Lime) • CaO		A	A	A	B		A		A	A	A	A			
Calcium Silicate <chem>Ca2SiO4</chem>			A			A	A		A	B	A	A			
Calcium Sulfate (Gypsum) <chem>CaSO4</chem>	B	A	A	A		A	A		A	C	10% B	10% A	A	A	X
Calcium Sulfide <chem>CaS</chem>	A	B	A	A		A	A	A	20% A	B	B	A	A ^{120°}		A
Calcium Sulfite <chem>CaSO3 • 2H2O</chem>			A			A	A		10% B	B	10% A				
Calgon® (NaPO3)6		A	A			A		A		X	A		A		
Cane Juice, Sucrose, water		A	A					A	B	A	A		X		
Cane Sugar Liquors Sucrose, water	X	A	A	A	B	A	A	A	A	A	A		A		A
Capryl Alcohol (Octanol) <chem>CH3(CH2)6CH2OH</chem>	X	B	A	C		B	A		A	A	A	A			
Caprylic Acid (Octanoic Acid) <chem>CH3(CH2)6COOH</chem>			C				A		A		A	A			A
Carbamate <chem>H2NCO2R</chem>	X	C	C	C		A	A	A							
Carbitol® <chem>CH3CH2OCH2CH2OCH2CH2OH</chem>	X	C	B	C		C	A	B	A	A	A	A			

Rating specific to % of concentration. Temperature shown is °F. Where not shown, temperature is 70°F (21°C) Ambient.

CHEMICAL Formula	ELASTOMERS								METAL PARTS			PLASTICS			
	POLYURETHANE	NEOPRENE	BUNA-N	E.P.D.M.	HYPREL®	(V) FKM FLUOROCARBON	PTFE, PFA	(TPE X) SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	HASTELLOY	POLYPROPYLENE	ACETAL	PVDF
Carbolic Acid (see Phenol) <chem>C6H5OH</chem>	X	C	X	C		A	A	A	B	A	B	A	C	X	A ^{150°}
Carbon Dioxide (Carbonic Acid Gas) <chem>CO2</chem>	A	A	A	B	A	A	A	A	A	A	A	A	A	A	A
Carbon Disulfide (Carbon Bisulfide) <chem>CS2</chem>	C	X	X	X	C	A	A	X	A	B	90% A		X	B	A
Carbon Monoxide <chem>CO</chem>	A	A	C	C	A	C	A	A	A	A	A	A	A	B	A
Carbon Tetrachloride (Tetrachloromethane) <chem>CCl4</chem>	X	X	C	X	X	A	A	X	X	C	B	A	X	B	A
Carbonated Beverages <chem>CO2/H2O</chem>	A	A	A				A	A	C		A	A	A		A
Carbonic Acid (liquid) <chem>H2CO3</chem>		A	B		C	A	A	A	A	X	B	A	A	A	A
Casein a phosphoprotein		A	A	A		A	A		B		B	B			
Castor Oil a mixture of fatty acids	A	A	A	B	B	A	A	B	A	B	A	A			
Catsup (Ketchup)		C	A			A	A	A	B	X	A	A	A		
Cellosolve® (Glycol Ethers) <chem>HOCH2CH2OR</chem>		C	C	C	X	B	A	C	A		A	A	A ^{100°}	A	A
Cellulose Acetate <chem>C8H12O5</chem>		B	B			C	A		B	B	A	A			
Cellulube® Hydraulic Fluids (Phosphate Esters)		X	X	A	C	B	A	X	A	A	A	A			
Chlorinated Lime—35% Bleach <chem>Ca(ClO)2</chem>	X	X	C	A	6% A	A	A	X		X	A				
Chlorinated Water		C	C		X	A	A		C		B	A	B	X	A
Chlorine, Dry <chem>Cl2</chem>		C	C		X	A	A	C	X	X			X	X	A
Chlorine, Wet <chem>Cl2/H2O</chem>	X	X	C	X	X	A	A	C	B	C	A	A	X	X	A
Chlorine, Anhydrous Liquid <chem>Cl2</chem>		X	X			A	A	X	X	X	X	A	X		A
Chlorine Dioxide <chem>ClO2</chem>		X	X	C		B	A	X	B		X	B	X		A
Chlorine Trifluoride <chem>ClF3</chem>	X	X	X	X		B	A	X	A		A		X		
Chloroacetic Acid (Monochloroacetic Acid) <chem>ClCH2COOH</chem>	X	C	X	B	X	C	A		X	X	X	A	A	X	A
Chloroacetone (Monochloroacetone) <chem>ClCH2COCH3</chem>		C	X	A		C	A	C	X	B	B	B	X		
Chlorobenzene (Monochlorobenzene) <chem>C6H5Cl</chem>	X	X	X	X	X	A	A	C	X	B	B	B	X	A	A ^{150°}

RATING KEY: (A) Excellent (B) Good (C) Fair to Poor (X) Not Recommended No Data Available.

CHEMICAL Formula	ELASTOMERS							METAL PARTS			PLASTICS				
	POLYURETHANE	NEOPRENE	BUNA-N	E.P.D.M.	HYTREL®	(VT) FKM FLUOROCARBON	PTFE, PFA	(TPEX) SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	HASTELLOY	POLYPROPYLENE	ACETAL	PI/D/F
Chlorobutadiene (Chloroprene) <chem>C6H5CL</chem>		X	X	X		A	A	C	X	B	B	B	X		
Chlorobromomethane <chem>ClCH2Br</chem>		X	X			A	A	X	X	B	B		X		
Chloroform <chem>CHCl3</chem>	X	X	X	X	X	A	A	X	X	A	A	A	X	B	A
1-Chloronaphthalene <chem>C10H7Cl</chem>		X	X	X		C	A	X	X	B	B	A	X		
Chlorosulfonic Acid <chem>HSO3CL</chem>	X	X	X	X	X	X	A	A	B	B	B	A	X	X	X
o-Chlorophenol <chem>C6H5ClO</chem>		X	X	X		B	A		B	B	B	B		B	A
Chlorothene® (Chlorinated Solvents) <chem>CH3CCl3</chem>		X	X			C	A	A	X	X	A	A			
Chlorotrifluoroethylene <chem>C2H2ClF3</chem>			X				A		B	B	B	B			
Chlorox®	B	C				A	A	B		X	A	B	B		
Chocolate Syrup Corn syrup, water, sugar	A	A					A	A		X	A		A		
Chromic Acid — To 10% <chem>H2CrO4</chem>		X	X	A	X	A	A	X	10% B	B	X	B	X	X	$A^{120^{\circ}}$
Chromic Acid — 25%-50% <chem>H2CrO4</chem>	X	X	X	C	X	A	A	X	X	B	X	B	A	X	$A^{120^{\circ}}$
Chromic Acid — Over 50% <chem>H2CrO4</chem>	X	X	X	C	X	A	A	X	X	B	X	B	X	X	$A^{120^{\circ}}$
Cider (Apple Juice) Sucrose, water		A	A		B	A	A	A	B	X	A	A			
Cinnamon Oil Cinnamic acid esters		C					A	C		X	A				
Citric Acid <chem>C6H8O7 • H2O</chem>	A	A	B	A	A	A	A	A	B	X	30% A	A	B	B	$A^{250^{\circ}}$
Citric Oils Citric acid esters		X	C	B		A	A	C		X	A		A		
Citrus Pectin Liquor	A	A				A	A				A				
Clove Oil (Eugenol) <chem>C10H12O2</chem>		C					A	C		X	A				
Cobalt Chloride <chem>CoCl2 • 6H2O</chem>	X	A	A	C		A	A	A	X				A		
Coconut Oil (Coconut Butter) Fatty acid mixture	A	B	B	A		A	A	B	B	A	A				
Cod Liver Oil (Fish Oil) Glycerides, acids, esters	A	B	B	A		A	A	C	A	X	A				
Coffee Fatty oils, acids, cellulose, water		A	A				A	A	A		A	A	A		
Coke Oven Gas <chem>H2(53%),CH4(26%)</chem> <chem>N2(11%),CO(7%)&</chem> hydrocarbons (3%)		C	C			A	A	B							A

Rating specific to % of concentration. Temperature shown is °F. Where not shown, temperature is 70°F (21°C) Ambient.

CHEMICAL Formula	ELASTOMERS							METAL PARTS			PLASTICS			
	POLYURETHANE	NEOPRENE	BUNA-N	E.P.D.M.	HYPREL®	(V) FKM FLUOROCARBON	PTFE, PFA (TPE X) SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	HASTELLOY	POLYPROPYLENE	ACETAL	PVDF
Copper Acetate <chem>Cu(C2H3O2)2 • CuO • 6H2O</chem>		C	B	A			A	A	X	90% A	10% B	10% B		A
Copper Chloride <chem>CuCl2 • 2H2O</chem>	A	A	A	A	A	A	A	X	X	X	40% B	A		A
Copper Cyanide <chem>CuCN</chem>	A	A	A	A		A	A	X	A	10% A	A ^{170°}	A		A
Copper Fluoroborate			A	B				A	X	X	X	B		
Copper Nitrate Hexahydrate <chem>Cu(NO3)2 • 6H2O</chem>		A	A	A		A	A	X	X	A	B	A	A	A
Copper Sulfate (Blue Copperas) <chem>CuSO4 • 5H2O</chem>	A	A	A	A	A	A	A	X	X	10% A	A	A	A	A
Copper Sulfide <chem>CuS</chem>			A			A	A							
Corn Oil (Maize oil) Glycerides of fatty acids	A	C	A	C	A	A	A	B	B	C	B		A	A
Cotton Seed Oil		A	C	A	A	A	A	B	A	C	A		A	B
Cream			C	A			A	A		X	A		A	
Creosote, Coal-Tar (Tar Oil) Hydrocarbon mixture	B	C	A	X	X	A	A	B	B	B	B	B	X	X
Creosote, Wood-Tar Mixture of phenols		B	A	X	X	A	A				B		X	X
Cresylic Acid (Cresol) <chem>C8H10O2</chem>	X	X	C	X		A	A	B	B	C	A	B	X	X
Crotonaldehyde <chem>CH3CH=CHCHO</chem>			A	X		A	A		A	A	A	A		
Cumene (Isopropylbenzene) <chem>C6H5CH(CH3)2</chem>		X	X	X		A	A		B	B	B	B		
Cutting Oil (Water Soluble)		X	C			A	A		A	A	A	A		
Cutting Oil (Sulfur Base)		C	A			A		A	A	A	A	A		
Cyclohexane <chem>C6H12</chem>	C	X	B	X	A	A	A	C	B	B	B	B	X	A
Cyclohexanol <chem>C6H11OH</chem>		A	B	X		A	A	B	C	B	A	A	B	A
Cyclohexanone <chem>C6H10O</chem>		X	X	C		X	A	C	B	B	B	B	X	A
Cyclopentane <chem>C5H10</chem>		A	B	X		A	A		B	B	B	B		
Cymene (Isopropyltoluene) <chem>C10H14</chem>		X	C	X		A	A							
Decahydronaphthalene (Decalin®) <chem>C10H18</chem>	X	X	X	X		A	A							
Decanal <chem>CH3(CH2)8CHO</chem>			X	X		X	A							
Decane <chem>CH3(CH2)8CH3</chem>	C	X	B	C		A	A	C					A ^{70°}	A
Decyl Alcohol (Decanol) <chem>C10H21OH</chem>		X	A			B	A							

RATING KEY: (A) Excellent (B) Good (C) Fair to Poor (X) Not Recommended No Data Available.

CHEMICAL Formula	ELASTOMERS							METAL PARTS			PLASTICS				
	POLYURETHANE	NEOPRENE	BUNA-N	E.P.D.M.	HYTREL®	(VT) FKM FLUOROCARBON	PTFE, PFA	(TPEX) SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	HASTELLOY	POLYPROPYLENE	ACETAL	PVDF
Denatured Alcohol Ethanol and denaturant	X	B	A	A		B	A	B	B	B	A	A	A		A
Detergent Solutions	X	A	A	A	B	A	A	B	B		A		A	A	
Developing Fluids & Solutions	X	A	A	C	X	A	A	A		X	A	A			
Dextrose $C_6H_{12}O_6$	A	B	B	A	B ^{140°}	A	A		A	X	A	A	A		A
Diacetone Alcohol (Diacetone) $(CH_3)_2COCH_2 \bullet COCH_3$	C	X	X	B	C	X	A	B	A	A	A	A	X	A	C
Dibenzy1 Ether $(C_6H_5CH_2)_2O$	C	X	X	C		C	A	C	B	B	B	B			C
Dibenzy1 Sebacate $C_{24}H_{30}O_4$	X	X	X	C	A	B	A	C							
Di butyl Amine $(C_4H_9)_2NH$		X	C	X		X	A	B		A	A	A	X		B ^{70°}
Di butyl Phthalate (DBP) $C_6H_4(CO_2C_4H_9)_2$	C	X	X	A	A	B	A	B	A	A	A	A	X		X
Di butyl Sebacate (DBS) $C_{18}H_{34}O_4$	X	X	X	C		C	A	B		A	A		C		
Dichloroacetic Acid $Cl_2CHCOOH$		X	X			X	A								
o-Dichlorobenzene $C_6H_4Cl_2$	X	X	X	X	X	A	A	X	X	B	B	A	B		A ^{150°}
Dichlorobutane $C_4H_8Cl_2$			X			A	A		X	B	B				
Dichloroethyl Ether $[ClCH_2CH_2]_2O$			X				A		B						
Dichloro Isopropyl Ether $C_3H_{12}OCl_2$	C	X	X	X		X	A	X					X		
Dicyclohexylamine $(C_6H_{11})_2NH$		X	X	X		B	A	B							
Diesel Oil (Fuel ASTM #2) Hydrocarbons	C	C	A	X	B	A	A	C	A	A	A	A	B		A
Diester Synthetic Oils	X	X	B	X		A	A		A	A	A	A			
Diethano Amine $(HOCH_2CH_2)_2NH$	C	A	B				A			A	A	A	A		
Diethyl Amine $(CH_3CH_2)_2NH$	C	C	C	C		X	A		B	B	A	A	A		A
Diethyl Benzene $C_6H_4(C_2H_5)_2$	X	X	X	X		A	A	C							
Diethyl Carbonate $(C_2H_5O)_2CO$		X	X				A			A					
Diethyl Ether (Ether) $(CH_3CH_2)_2O$	A	C	B	X	C	X	A	B	B	A	A	A	X	A	A
Diethyl Phthalate (DEP) $C_6H_4(CO_2C_2H_5)_2$			X			C	A		A	A	A	A			
Diethyl Sebacate $C_{14}H_{26}O_4$		X	X	C	A	B	A	B	A	A	A	A	A ^{120°}		A ^{120°}
Diethylene Ether (Dioxane) $C_4H_8O_2$		X	X	A		X	A		A	A	A				

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CHEMICAL Formula	ELASTOMERS							METAL PARTS			PLASTICS			
	POLYURETHANE	NEOPRENE	BUNA-N	E.P.D.M.	HYPREL®	(V) FKM FLUOROCARBON	PTFE, PFA	(TPE X) SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	HASTELLOY	POLYPROPYLENE	ACETAL
Diethylene Glycol (DEG) <chem>HOCH2CH2OCH2CH2OH</chem>	X	A	A	A	A	A	A	A	A	A	A	A	A	
Diethylene Triamine <chem>(NH2CH2CH2NH)2</chem>			B				A		A	A	A	A		
Diisobutyl Ketone <chem>C4H9COC4H9</chem>		X	X	B		X	A		A	A	A	A		
Diisobutylene <chem>[HC=C(CH3)2]2</chem>		C	B			C	A	C					A	A
Diisodecyl Adipate (DIDA) <chem>C26H50O4</chem>			X			C	A							
Diisodecyl Phthalate (DIDP) <chem>C28H47O4</chem>		X	X	A		C	A							
Diisooctyl Adipate (DIOA) <chem>C22H42O4</chem>			X			C	A		A	A	A	A		
Diisooctyl Phthalate (DIOP) <chem>C24H39O4</chem>			X			C	A							
Diisooctyl Sebacate (DIOS) <chem>C26H48O4</chem>				B		A	A							
Diisopropyl Amine <chem>[(CH3)2CH]2NH</chem>			B				A							
Diisopropyl Benzene <chem>C6H4 • [CH(CH3)2]2</chem>		X	X	X		A	A	C						
Diisopropyl Ketone <chem>[(CH3)2CH]2CO</chem>		X	X	A		X	A	C			A			
N,N-Dimethylaniline <chem>C6H5N(CH3)2</chem>		X	X	C		X	A	B	B	B			X	A
Dimethyl Ether <chem>CH3OCH3</chem>		B	A			A	A		B	B	B	B		
N,N-Dimethyl Formamide (DMF) <chem>HCON(CH3)2</chem>		X	C		C	X	A	A	A		A	A	A ^{120°}	B
Dimethyl Phthalate <chem>C6H4(CO2CH3)2</chem>		X	X	C	A	C	A	A						A ^{70°}
Dimethyl Sulfate <chem>(CH3)2SO4</chem>			X			X	A			A				
Dimethyl Sulfide <chem>(CH3)2S</chem>			X				A		A	A	A	A		
Dinitrotoluene (DNT) <chem>CH3C6H3(NO2)2</chem>		X	X	X		C	A	B			A			
Diocetyl Phthalate (DOP) <chem>C24H38O4</chem>	X	X	X	B	A	B	A	C	A	A	A	A		
Diocetyl Sebacate <chem>C26H50O4</chem>	C	X	X	C		C	A	C	A	A	A	A		
Dioxolanes (Dioxolans) Glycol ethers		X	X	B		C	A	C						
Dipentene (Limonene) <chem>C10H16</chem>		X	C	X		A	A	C	A	A	A	A		
Diphenyl Oxides (Phenyl Ether) <chem>C6H5OC6H5</chem>	C	X	X	C		A	A	C	B	A	A	A		A
Dipropylamine <chem>(CH3CH2CH2)2NH</chem>			B				A							

RATING KEY: (A) Excellent (B) Good (C) Fair to Poor (X) Not Recommended No Data Available.

CHEMICAL Formula	ELASTOMERS						METAL PARTS			PLASTICS					
	POLYURETHANE	NEOPRENE	BUNA-N	E.P.D.M.	HYTREL®	(VT) FKM FLUOROCARBON	PTFE, PFA	(TPE X) SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	HASTELLOY	POLYPROPYLENE	ACETAL	PIVDF
Dipropylene Glycol $(C_3H_6OH)_2O$			A			A	A						A		A
Dipropyl Ketone (Butyrone) $(C_3H_7)_2CO$			X				A								
Dispersing Oil #10		X	X	X		C	A		A	A	A	A			
Divinyl Benzene (DVB) $C_6H_4(CH=CH_2)_2$			X			A	A								
Dodecyl Benzene (Alkane) $C_6H_5(CH_2)_{11}CH_3$			X			A	A		A	A	A				
Dow Corning® (Silicones) $[(CH_3)_2SiO]_n$	A	A	A			A	A		A						
Dowtherm®(Biphenyl & Phenyl Ether) $(C_6H_5)_2$ and $(C_6H_5)_2O$	C	X	X	X		A	A	X	A	B	A	A			
Drycleaning Fluids Chlorinated hydrocarbons		X	C			A	A	X	A	A	A		X		
Dyes			C						B	B		A			
Epichlorohydrin C_3H_5ClO		X	X	B	X	X	A	B	X	A	A	A	A	A	X
Epsom Salts (Magnesium Sulfate) $MgSO_4 \cdot 7H_2O$		A	A			A	A	A	A		A	B	A		A
Ethane C_2H_6	C	C	A	X		A	A	C	A	A	A	A	C	A	
Ethanolamine (Aminoethanol) $H_2NCH_2 \cdot CH_2OH$	X	C	B	B		X	A	A	B	A	A		X	X	C
Ethyl Acetate $CH_3COOC \cdot H_2CH_3$	X	X	X	B	C	X	A	C	A	A	A	A	C	A	A
Ethyl Acetoacetate (Acetoacetic Ester) $CH_3COCH_2 \cdot COOCH_2CH_3$	C	X	X	C		X	A	C	A	A	A	A			A ^{70°}
Ethyl Acrylate $CH_2CHCO_2 \cdot CH_2CH_3$	X	X	X	C		X	A	C	A	A	A	A	B		B ^{70°}
Ethyl Alcohol (Ethanol) CH_3CH_2OH	X	A	A		X	B	A		B	B	A	A	A ^{100°}		A
Ethyl Aluminum Dichloride $CH_3CH_2AlCl_2$			X			B	A								
Ethyl Amine (Monoethylamine) $CH_3CH_2NH_2$		C	X	A		X	A		B	B	A				
Ethyl Benzene $CH_3CH_2C_6H_5$	X	X	X	X		A	A	C	B	B	B	A	X	A	A
Ethyl Benzoate $C_6H_5CO_2CH_2CH_3$		X	X	C		A	A	C	A	A	A	A	B		
Ethyl Bromide (Bromoethane) CH_3CH_2Br	B	X	B			A	X	A	A	A	A				
Ethyl Butyl Acetate $CH_3CO_2CH_2 \cdot CH(C_2H_5)_2$			X			X	A								
Ethyl Butyl Alcohol $CH_3CH(C_2H_5) \cdot (CH_2)_2OH$			A			B	A								
Ethyl Butyl Ketone $CH_3CH_2COC_4H_9$			X			X	A								

Rating specific to % of concentration. Temperature shown is °F. Where not shown, temperature is 70°F (21°C) Ambient.

CHEMICAL Formula	ELASTOMERS							METAL PARTS			PLASTICS				
	POLYURETHANE	NEOPRENE	BUNA-N	E.P.D.M.	HYPREL®	(V) FKM FLUOROCARBON	PTFE, PFA	(TPE X) SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	HASTELLOY	POLYPROPYLENE	ACETAL	PVDF
Ethyl Butyraldehyde <chem>C6H12O</chem>			X			X	A								
Ethyl Butyrate <chem>CH3CH2CH2 • C140° CO2C2H5</chem>		X	X	X		C	A		B	A	A	A	B		
Ethyl Caprylate <chem>CH3(CH2)6 • CO2C2H5</chem>			X	X	X										
Ethyl Cellosolve® <chem>C2H5O(CH2)2OH</chem>		C	C	B		X	A	B							
Ethyl Cellulose (Ethocel®)	B	B	B	B	B	C	A	A	B	A	B	B	C		
Ethyl Chloride (Chloroethane) <chem>C2H5Cl</chem>	C	C	A	A	X	A	A	C	X	B	A	B	X	A	A
Ethyl Chlorocarbonate (Ethyl Chloroformate) <chem>CICO2C2H5</chem>		C				A	A	A							
Ethyl Cyanide (Propionitrile) <chem>C2H5CN</chem>		B	X	A		X	A								
Ethyl Formate <chem>HCOOCH2CH3</chem>		B	X	C		A	A	B	B	A	B	B			
Ethylhexyl Acetate <chem>CH3CO2CH2 • CH(C2H5)C4H9</chem>			X			X	A								
Ethylhexyl Alcohol (Ethylhexanol) <chem>C8H17OH</chem>			A			B	A		A	A	A	A			
Ethyl Iodide <chem>CH3CH2I</chem>		X	X	C		B	A								
Ethyl Isobutyrate <chem>(CH3)2 • CHCOOCH2CH3</chem>		X	X	X			A								
Ethyl Mercaptan (Ethanethiol) <chem>CH3CH2SH</chem>		C	X	X		B	A	C	B	A	B	B			
Ethyl Oxalate <chem>C2H5O2C • CO2C2H5</chem>	A	X	X	A		B	A	B							
Ethyl Pentachlorobenzene <chem>C6H5C6Cl5</chem>		X	X			A	A	X	X				X		
Ethyl Propionate <chem>CH3CH2 • COOCH2CH3</chem>		X	X	X			A		A	A	A	A			
Ethyl Silicate <chem>Si(OCH2CH3)4</chem>		A	A	A		A	A	B	B	A	A	A			
Ethyl Sulfate <chem>C2H5OSO3OH</chem>			A			A	A	B				X			
Ethylene (Ethene) <chem>C2H4</chem>		A	B	C		A	A	C	A	A	A				
Ethylene Chlorohydrin <chem>ClCH2CH2OH</chem>	X	B	X	A	X	B	A	C		B	A	A	X		A70°
Ethylene Diamine <chem>(CH2)2(NH2)2</chem>		A	B	A		X	A	A	C	A	A	A	A	A	B
Ethylene Dibromide (Ethylene Bromide) <chem>Br(CH2)2Br</chem>		X	X	C		B	A		X	X	B	B	X		A
Ethylene Dichloride (Dutch Oil) <chem>Cl(CH2)2Cl</chem>	X	X	X	X	X	B	A	X	X	B	B	B	X	B	A

RATING KEY: (A) Excellent (B) Good (C) Fair to Poor (X) Not Recommended No Data Available.

CHEMICAL Formula	ELASTOMERS							METAL PARTS			PLASTICS			
	POLYURETHANE	NEOPRENE	BUNA-N	E.P.D.M.	HYTREL®	(VT) FKM FLUOROCARBON	PTFE, PFA	(TPE X) SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	HASTELLOY	POLYPROPYLENE	ACETAL
Ethylene Glycol (Ethylene Alcohol) (Glycol) $(CH_2OH)_2$	B	A	A	A	A	A ^{70°}	A	A	A	A	A	A ^{120°}	A	A
Ethylene Glycol Monobutyl Ether (Butyl Cellosolve®) $C_2H_5OCH_2CH_2OH$	X	X	B	B		C	A		A	A	A	A		
Ethylene Glycol Monoethyl Ether Acetate (Cellosolve Acetate®) $C_2H_5O(CH_2)_2 \bullet O_2CCH_3$	X	X	C	B		C	A		A	A	A	A		
Ethylene Glycol Monomethyl Ether (Methyl Cellosolve®) $CH_3O(CH_2)_2OH$	X	C	C	B		X	A		B	B	A	A		
Ethylene Oxide $(CH_2)_2O$	X	X	X	X	A	C	A	A	A	B	A	A	C	A
Ethylene Trichloride (Trichloroethene) $ClCHCCl_2$			X	X	X		A	A	X	X	A	A	X	
Ethyldene Chloride CH_3CHCl_2		X	X	X			A		X	B	A	B		
Fatty Acids $C_nH_{2n+1}COOH$	C	B	X	B	A	A	B	90% A	X	A	A	B	A	A
Ferric Chloride $FeCl_3$	A	A	A	A	X	A	A	A	X	X	X	10% A	A	A
Ferric Hydroxide $FeOH_2$			B			C	A				A	10% B		
Ferric Nitrate $Fe(NO_3)_3$	A	A	A	A		A	A	A	X	X	B	10% A	A	A
Ferric Sulfate $Fe_2(SO_4)_3$	A	A	A			A	A	A	C	X	B	30% A	A	B
Ferrous Chloride $FeCl_2$	A	A	A	X	A	A	A	X	X	30% B	50% B	A	B	A
Ferrous Sulfate $FeSO_4$	A	A	A	A	A	A	A	10% A	C	B	30% A	A	B	A
Fish Oil			A			A	A	B						
Fluoboric Acid (Fluoroboric Acid) HBF_4		B	A	A	X	C	A	A	X	X	30% A		A	A
Fluorine (Liquid) F_2		C	X	C	X	B	A	X	A		A		X	A ^{70°}
Fluorobenzene FC_6H_5		X	X	X		A	A	C					X	
Fluorolube (Fluorocarbon Oils) $F_3C_2H_2$		A	C	A		B	A	X	A	A	A	X		
Fluosilicic Acid (Sand Acid) H_2SiF_6	B	A	B	B	B	A	A	A	X	X	A ^{212°}	B	A	A
Formaldehyde (Formalin) $HCHO$	X	C	B	A	40% C	A	A	B	A	C	90% A	70% A	A	A
Formamide $HCONH_2$		A	A	A		X	A		A	B	B	B		
Formic Acid $HCOOH$	X	B	C	B	C	C	A	A	X	X	C	A	A ^{70°}	X

Rating specific to % of concentration. Temperature shown is °F. Where not shown, temperature is 70°F (21°C) Ambient.

CHEMICAL Formula	ELASTOMERS								METAL PARTS			PLASTICS			
	POLYURETHANE	NEOPRENE	BUNA-N	E.P.D.M.	HYPREL®	(V) FKM FLUOROCARBON	PTFE, PFA	(TPE X) SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	HASTELLOY	POLYPROPYLENE	ACETAL	PVDF
Freon 11 (Trichlorofluoromethane) <chem>CCl3F</chem>	X	C	C	X	A	B	A	X	B	A	A		B		A
Freon 12 (Dichlorodifluoromethane) <chem>Cl2CF2</chem>	A	B	B	B	A	B	A	X	A	A	A				A
Freon 13 (Chlorotrifluoromethane) <chem>ClCF3</chem>		A	A	A	C	A	A	X	A	A	A	A			
Freon 13B1 (Bromotrifluoromethane) <chem>BrCF3</chem>	A	A	A	A		A	A								
Freon 14 (Tetrafluoromethane) <chem>CF4</chem>		X	X	B			A								
Freon 21 (Dichlorofluoromethane) <chem>FCHCl2</chem>		B	X	X		X	A	X	A						A
Freon 22 (Chlorodifluoromethane) <chem>HCClF2</chem>	X	B	X	C	X	X	A	X	A	A	A	A			A
Freon 113 (Trichlorotrifluoroethane) (TF) <chem>Cl3CCF3</chem>	C	A	B	X	A	B	A	X	B		A				A
Freon 114 (Dichlorotetrafluoroethane) <chem>C2Cl2F4</chem>	A	A	A	C	A	A	A	X	B		A				A
Freon 114B2 (Dibromotetrafluoroethane) <chem>C2Br2F4</chem>		A	B	X		B	A	X							
Freon 115 (Chloropentafluoroethane) <chem>C2ClF5</chem>		A	A	A		B	A	X	A						
Fruit Juices Water, sucrose		A	A	A	B	A	A	A	0% A	X	A	A	A		A
Fuel Oils (ASTM #1 thru #9) Hydrocarbons	C	C	A	X	B	A	A	C	A	A	A	A	C	C	A
Fumaric Acid (Boletic Acid) <chem>HOOCCH = CHCOOH</chem>		B	C			A	A	A							
Furan (Furfuran) <chem>C4H4O</chem>		X	X	X	X	C	A	C					C		X
Furfural (Ant Oil) <chem>C5H4O2</chem>	X	B	X	B		C	A	C	A	B	20% A	B	X	B	B120°
Furfuryl Alcohol <chem>C5H6O2</chem>	X		X	B	B	X	A		A	A	A	A			B100°
Fusel Oil (Grain Oil) <chem>(CH3)2 • CHCH2CH2OH</chem>	C	A	A	A		A	A								
Gallic Acid <chem>C6H2(OH)3 • COOH</chem>	X	C	B	B	X	A	A	B	20% A	X	B	B	A70°		A70°
Gasoline (Unleaded) <chem>C4 to C12</chem> • Hydrocarbons	X	X	X	X		A	A	C	A	A	A	A	C	A	A
Gasoline (Petrol) Hydrocarbons	B	C	A	X	A	A	A	C	A	A	A	A	C	A	A
Gelatin Water soluble Proteins	A	A	A	A	B	B	A	A	A	A	A	A	A	B	A
Ginger Oil <chem>C17H26O4</chem>		A				A	A	C		X	A				

RATING KEY: (A) Excellent (B) Good (C) Fair to Poor (X) Not Recommended No Data Available.

CHEMICAL Formula	ELASTOMERS							METAL PARTS			PLASTICS			
	POLYURETHANE	NEOPRENE	BUNA-N	E.P.D.M.	HYTREL®	(VT) FKM FLUOROCARBON	PTFE, PFA	(TPE XL) SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	HASTELLOY	POLYPROPYLENE	ACETAL
Glauber's Salt (Sodium Sulfate Decahydrate) <chem>Na2SO4·10H2O</chem>	A	A	A	B	B	A	A							
Gluconic Acid <chem>C6H12O7</chem>			C			A	A		B	C	50% A		A	
Glucose (Corn Syrup) <chem>C6H12O6</chem>	A	A	A	A	B	A	A	A	A	A	A		A	A
Glue (PVA)	A	A	A	B	B	A	A	A	A	A	B	A	A	B
Glycerol (Glycerine) <chem>C3H8O3</chem>	A	A	A	A	A	A	A	A	A	B	A	A	A	A
Glycolic Acid <chem>HOCH2COOH</chem>		A	A			A		A				A	A	A
Glycols		A	A			A	A	A	B	B	B		A	A
Gold Monocyanide <chem>AuCN</chem>		A	A			A		A			X	A		
Grape Juice Water, sucrose	X	C				A	A	A		X	A		A	A
Grapefruit Oil	A	X	X				A			X	A			
Grease Hydrocarbons		X	A		A	A	A	B	A		A			
Green Sulfate Liquor	B	B	A	X	A	A	A	A	B	C	A	B	A	
Halowax Oil Chlorinated naphthalenes		X	X	X		A	A	X	X					
Heptanal <chem>CH3(CH2)5CHO</chem>			A			A			A	A	A	A	A	
Heptane <chem>C7H16</chem>	B	C	A	X		A	A	C	A	A	A	A	C ^{140°}	A
Hexanal <chem>CH3(CH2)4CHO</chem>	C	A	X	B		C	A		A	B	A	B		
Hexalin (Cyclohexanol) <chem>C6H11OH</chem>		A	B	C		A	A							
n-Hexane <chem>C6H14</chem>	B	B	A	X	A	A	A	A	A	A	A	A	C ^{140°}	C
n-Hexane 1 (Hexylene) <chem>H2C(CH2)3CH3</chem>	A	B	A	X		A	A	C						
Hexyl Alcohol (1-Hexanol) <chem>C6H13OH</chem>	X	B	A	C		A	A		A	A	A			A
Hexylene Glycol (Brake Fluid) <chem>C6H12(OH)2</chem>		A	A	C		A	A		A	A	A	A		
Honey	A						A	A	A	A	A		A	
Hydraulic Oil (Petroleum Base) Hydrocarbons	A	B	A	X	X	A	A	X	A	A	A	A	X	C
Hydrazine (Diamine) <chem>H2NNH2</chem>	X	C	C	A	X	X	A	A	A	X	A	A	X	B
Hydrobromic Acid HBr	X	C	X	A		A	A	B	A	A	A		B	X
Hydrochloric Acid 10% (Muratic) HCl	B	B	B	A		A	A	A	X	C	X	B	A	X
Hydrochloric Acid 20% (Muratic) HCl	B	B	B	A	C	A	A	A	X	C	X	A	A	X

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CHEMICAL Formula	ELASTOMERS								METAL PARTS			PLASTICS			
	POLYURETHANE	NEOPRENE	BUNA-N	E.P.D.M.	HYPREL®	(V) FKM FLUOROCARBON	PTFE, PFA	(TPE X) SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	HASTELLOY	POLYPROPYLENE	ACETAL	PVDF
Hydrochloric Acid 30% (Conc.) HCl	X	C	C	A	X	B	A		X	X	X	A	B	X	A
Hydrocyanic Acid (Formonitrile) HCN	C	C	B	A	X	A	A	B	10% A	X	A	B	A	X	A
Hydrogen Fluoride — Anhydrous HF	C	C	X	C		A	A		X		X	A	A		A
Hydrofluoric Acid (Conc.) Cold HF *SEE NOTE BELOW	X	C		C	X	B	A	X	C	X	X	B	40% A	X	A
Hydrogen Peroxide — 3% H ₂ O ₂		B	B	B	X	A	A	A	A				A		A
Hydrogen Peroxide — 10% H ₂ O ₂		C	C	B	X	A	A		A	B	A	A	A		A
Hydrogen Peroxide — 30% H ₂ O ₂		X	C	B	X	A	A		A	X	B	A	A		A
Hydrogen Peroxide — 90% H ₂ O ₂	C	B	X	C	X	A	A		A	X	A				
Hydrogen Sulfide (Wet) H ₂ S		C	X	A	A	X	A	A	90% A	X	A ^{167°}	A ^{167°}	A	C	A
Hydroquinone C ₆ H ₄ (OH) ₂		X	C			C	A	A	90% A	B	10% A	B			A
Hydroxyacetic Acid — 10% HOCH ₂ COOH		X	X				A	70% A	B		B				
Hypochlorous Acid HClO		X	X	B		A	A	A	X	X	X	A	A		A
Ink	A	A			A			C	X	A	A				
Iodine I ₂		B	B	B	B	A	A	A	A	X	X	A	A		A ^{150°}
Iodoform CHI ₃				A			A	B	A	A	A	A			A
Isoamyl Acetate CH ₃ CO ₂ CH ₂ CH ₂ CH ₂ CH • (CH ₃) ₂	X	X	X	B		X	A		A	A	A	A			
Isoamyl Alcohol (CH ₃) ₂ •CHCH ₂ CH ₂ OH	C	A	A	A		A	A								
Isoamyl Butyrate C ₉ H ₁₈ O ₂			X			X	A		A	A	A	A			
Isoamyl Chloride (CH ₃) ₂ CHCH ₂ CH ₂ Cl		X	X	X		A	A		X						
Isobutyl Acetate CH ₃ CO ₂ CH ₂ •CH(CH ₃) ₂		X	X	C		X	A		A	A	A	A			
Isobutyl Alcohol (Isobutanol) (CH ₃) ₂ •CHCH ₂ OH	X	B	B	A		A	A		A				A	A	A
Isobutyl Amine (CH ₃) ₂ •CHCH ₂ NH ₂			X			X	A								
Isobutyl Chloride (CH ₃) ₂ •CHCH ₂ Cl			X			B	A		X	B	B	90% A			
Isobutyric Acid (CH ₃) ₂ •CHCOOH		B	X	A			A		A						
Isododecane (CH ₃) ₂ •CH(CH ₂) ₈ CH ₃	B	A	B	X		A	A		B	B	B	B			

*NOTE: Glass-filled Polypropylene pump components are not compatible with Hydrofluoric Acid. Please consult factory for specific details..

RATING KEY: (A) Excellent (B) Good (C) Fair to Poor (X) Not Recommended No Data Available.

CHEMICAL Formula	ELASTOMERS							METAL PARTS			PLASTICS			
	POLYURETHANE	NEOPRENE	BUNA-N	E.P.D.M.	HYTREL®	(VT) FKM FLUOROCARBON	PTFE, PFA	(TPE XL) SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	HASTELLOY	POLYPROPYLENE	ACETAL
Isooctane (Trimethylpentane) <chem>C8H18</chem>	B	B	A	X	A	A	A	C	A	A	A	A	A	A
Isopentane <chem>(CH3)2CHCH2CH3</chem>			A			A	A							
Isophorone <chem>C9H14O</chem>	C	X	X	C		X	A	B	A	A	A	A		
Isopropyl Acetate <chem>CH3COOCH2(CH3)2</chem>	A	X	X	B		X	A	B	A	A	A	A	B	
Isopropyl Alcohol (Isopropanol) <chem>CH3CH(OH)CH3</chem>	X	A	B	B	A	A	A		90% A	A	A	A	A	A
Isopropyl Amine <chem>C3H7NH2</chem>			X			X	A			A	A			
Isopropyl Chloride <chem>(CH3)2CHCl</chem>	X	X	X	X		B	A	C	X	A	A	A	X	
Isopropyl Ether <chem>(CH3)2CHOCH2(CH3)2</chem>	C	C	C	X		C	A	C	B		A		X	A70°
Jet Fuels (JP1 to JP6) (ASTM-A, A1 & B)	C	C	A	X	A	A	A	C	A	A	A	A	X	A
Kerosine (Kerosene) Hydrocarbons	C	C	A	X	A	A	A	C	A	A	A	A	X	A
Lacquers	X	X	X	X	X	X	A	C	A	B	A	A	B	
Lacquer Solvents	X	X	X	X	C	X	A	C	A	B	A	A	C	B
Lactic Acid <chem>CH3CHOHCOOH</chem>		B	B	A	X	A	A	A	A	X	70% A	60% A	A	C
Lactol (Aliphatic Naphtha Solvent) <chem>CH3CHOHCO2C10H7</chem>		X	C			A	A		A	A	A	A		
Lard (Lard Oil) Olein, stearin	A	C	A	X	B	A	A	B	A	A	B	A	A	B
Latex Rubber emulsion		A	A				A		A		A		A	C
Lauryl Alcohol (n-Dodecanol) <chem>CH3(CH2)10OH</chem>			A			B		A	A	A	A	A		
Lavender Oil Ester mixture	X	B	X			B	A	B						
Lead Acetate (Sugar of Lead) <chem>Pb(CH3COO)2</chem>	X	A	B	A		X	A	A	X		B	B	A	A
Lead Chloride <chem>PbCl2</chem>		B					A		X		B	B	A	A
Lead Nitrate <chem>Pb(NO3)2</chem>		A	B	A		A	A		X	B	B	B	A	A
Lead Sulfamate			A	B					A					A
Lemon Oil (Cedro Oil) Hydrocarbons			C						C	A		A		
Ligroin (Ligroine) (Benzine) Petroleum fraction		B	A	X		A	A	B		A	A		X	
Lignin Liquor Blend of natural aromatic oils		A	A			A	A				A			

Rating specific to % of concentration. Temperature shown is °F. Where not shown, temperature is 70°F (21°C) Ambient.

CHEMICAL Formula	ELASTOMERS							METAL PARTS			PLASTICS			
	POLYURETHANE	NEOPRENE	BUNA-N	E.P.D.M.	HYPREL®	(V) FKM FLUOROCARBON	PTFE, PFA	(TPE X) SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	HASTELLOY	POLYPROPYLENE	ACETAL
Lime, Soda (Slaked Lime & Soda Ash) CaO	C	B	B	A		B	A	A						
Lime Bleach		C	A	A		A	A	A	X			B		
Lime Slurries		A	B		C	B	A		B		B			
Lime Sulfur CaS+CaSO ₄		A	A	A		A	A	B	X		A		A	
Limonene C ₁₀ H ₁₆		X	C	X		A	A							
Linoleic Acid C ₁₈ H ₃₂ O ₂		X	B	X		B	A	B	A		A	A	A	A
Linseed Oil (Flaxseed Oil) Glycerides	B	A	A	C	B	A	A	B	A	A	A	A	A	A
Lindol (Tritolyl Phosphate) C ₂₁ H ₂₁ O ₄ P		C	X			B	A	A						
Lithium Bromide LiBrH ₂ O		X	A			A	A			A				A
Lubricating Oils (Petroleum) Hydrocarbons	C	B ^{150°}	A	X	A	A	A	X	A	A	A	A	C	A
Lye (Potassium Hydroxide) KOH		B	C		C	B	A	A			A		A	A ^{150°}
Magnesium Carbonate MgCO ₃		A	A	C	A	A	A	A	A	B	B	B	A	A
Magnesium Chloride MgCl ₂ O	A	A	A	A	A	A	A	A	20% A	30% B	50% B	A	A	B
Magnesium Hydroxide (Milk of Magnesia) Mg(OH) ₂	A	B	B	A	C	A	A	A	10% A	A	A	A	A	A
Magnesium Nitrate Mg(NO ₃) ₂ • 6H ₂ O		A	A	A		A	A	A	50% B	B	A	B	A	A
Magnesium Oxide MgO		A	A			B	A	A	10% A	A	A	A		
Magnesium Sulfate (Epsom Salts) MgSO ₄ • 7H ₂ O		A	A	A	B	A	A	A	70% A	A	50% A	A	A	A
Maleic Acid (CHCOOH) ₂		A	X	X		A	A	A	20% A	60% B	B	A	A	A
Maleic Anhydride C ₄ H ₂ O ₃				X		A	A	A	20% A	B	A	A		
Malic Acid (Apple Acid) C ₄ H ₆ O ₅		C	B	X		A	A	A	B		A	B ^{212°}		
Maple Sugar Liquors (Sucrose) Water, sucrose	X	A	A	A		A	A				A			
Mayonnaise Water, fats, oils		A	A			A	A		X	X	A	A	A	
Mercuric Chloride HgCl ₂		B	A	A		A	A	A	X	X	X	30% B	A	B
Mercuric Cyanide Hg(CN) ₂		B	B	A		A	A	A	X	B	B	B	A	A
Mercurous Nitrate Hg ₂ (NO ₃) ₂ • 2H ₂ O		B	B	A		A	A		X	B	B ^{212°}	B	A	A

RATING KEY: (A) Excellent (B) Good (C) Fair to Poor (X) Not Recommended No Data Available.

CHEMICAL Formula	ELASTOMERS							METAL PARTS			PLASTICS				
	POLYURETHANE	NEOPRENE	BUNA-N	E.P.D.M.	HYTREL®	(VT) FKM FLUOROCARBON	PTFE, PFA	(TPE XL) SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	HASTELLOY	POLYPROPYLENE	ACETAL	PVDF
Mercury Hg	A	A	A	A	A	A	A	A	X	A	A	A	A	C	A
Mesityl Oxide $(\text{CH}_3)_2\text{C} = \text{CHCOCH}_3$		X	X	B		X	A	C	A	A	A	A			
Methane CH_4	C	B	A	X	B	A	A	C	A	A	A	A	B	A	A
Methyl Acetate $\text{CH}_3\text{CO}_2\text{CH}_3$		C	X	C	C	X	A	B	A	A	A	A	C	B	
Methyl Acetoacetate $\text{CH}_3\text{COCH}_2 \bullet \text{COOCH}_3$			X			X	A			A	A	A			
Methyl Acrylate $\text{CH}_2\text{CHCO}_2\text{CH}_3$		C		C		X	A	B		A	A				A^{70°
Methyl Acrylic Acid (Crotonic Acid) $\text{CH}_3(\text{CH})_2\text{COOH}$		C		C		X	A								
Methyl Alcohol (Methanol) CH_3OH	X	A	A	A	A	B	A	A	B	A	A	A	A	A	
Methyl Amine (Monomethylamine) CH_3NH_2		A	B	A		90% A	A		B	B	A	B	X	C	
Methyl Amyl Acetate $\text{C}_5\text{H}_{10}\text{O}_2$			A			X	A		A	A	A	A			
Methyl Amyl Alcohol $\text{C}_5\text{H}_{11}\text{OH}$			A			X	A		A	A	A	A			
Methyl Aniline $\text{C}_6\text{H}_5\text{NH}(\text{CH}_3)$		A	A	A			A								
Methyl Bromide (Bromo Methane) CH_3Br		X	C	A	X	A	A	X	X	A	A	B	X	A	
Methyl Butyl Ketone (2-hexanone) $\text{CH}_3\text{COC}_4\text{H}_9$		X	X	B		X	A	C			A		X		
Methyl Butyrate $\text{CH}_3(\text{CH}_2)_2 \bullet \text{CO}_2\text{CH}_3$		X	X	X			A		A	A	A	A			
Methyl Cellosolve® $\text{CH}_3\text{OCH}_2 \bullet \text{CH}_2\text{OH}$		X	X			X	A	B	A				A	A	
Methyl Chloride CH_3Cl	X	X	X	C	X	B	A	X	X	A	A	A	X	B	A
Methyl Cyclopentane C_5H_{12}		X	B	X		A	A	C			A				
Methyl Dichloride CH_2Cl_2		X	X			A		X	X				X		
Methyl Ethyl Ketone (Butanone) $\text{CH}_3\text{CO} \bullet \text{CH}_2\text{CH}_3$	X	X	X	A	C	X	A	B	A	A	A	A	X	B	X
Methyl Formate HCOOCH_3		B	X	C		X	A	B	A	A	A				
Methyl Hexane C_6H_{14}		A	A	X		A	A								
Methyl Iodide CH_3I		X	X	A			A		X	A	A	A			

Rating specific to % of concentration. Temperature shown is °F. Where not shown, temperature is 70°F (21°C) Ambient.

CHEMICAL Formula	ELASTOMERS							METAL PARTS			PLASTICS			
	POLYURETHANE	NEOPRENE	BUNA-N	E.P.D.M.	HYPREL®	(V) FKM FLUOROCARBON	PTFE, PFA (TPE X) SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	HASTELLOY	POLYPROPYLENE	ACETAL	PIVF
Methyl Isobutyl Ketone (Hexone) <chem>CH3COCH2CH • (CH3)2</chem>	X	X	C	X	X	A	C	A	B	B	A	C ^{70°}	A	A ^{70°}
Methyl Isopropyl Ketone <chem>CH3COCH(CH3)2</chem>	X	X	C	X	X	A	C			A		C		A ^{70°}
Methyl Methacrylate <chem>CH2C(CH3) • CO2CH3</chem>	X	X	X		C	A	B	B		A				A ^{70°}
Methyl Oleate <chem>C19H36O2</chem>	X	X	C		B	A	C							
Methyl Propyl Ketone <chem>CH3CH2 • CH2COCH3</chem>	X	X	B			X	A							
Methyl Salicylate (Betula Oil) <chem>HOC6H4 • COOCH3</chem>	X	X	C		B	A	B	A	A	A				
Methacrylic Acid <chem>CH3CHCHCO2H</chem>	B				B	A	A							
Methylamine <chem>CH3NH2</chem>	A	B	A		90% A	A	A	B	B	A	B	A		
Methylene Bromide <chem>CH2Br2</chem>	X	X			B	A		X	A	A	A			A
Methylene Chloride <chem>CH2Cl2</chem>	X	X	X	X	X	B	A	X	X	B	90% A	A	X	B ^{100°}
Milk	X	A	B	A	B	A	A	A	X	A	A	A	A	A
Mine Water			A			A		B		B	A			
Mineral Oil (Petroleum) Hydrocarbons	A	B	A	X	A	A	A	A	A	A	A	B	A	A
Mixed Acids (Sulfuric & Nitric) <chem>H2SO4, HNO3</chem>	X	X	X	B		A	A		X	X	B	B	X	A
Molasses	X	A	A	A	B	A	A	A	A	A	A	A	A	B
Monochlorobenzene <chem>C6H5Cl</chem>	X	X			C	A	A	C	X	A	A		X	A
N-Methyl Aniline <chem>C6H5NHCH3</chem>		X	X			C	A						C	
Monoethanolamine <chem>NH2C2H4OH</chem>	C	B				C	A	A	B	A	A		X	X
Mustard		A	C		B	X	A	A	B	X	A	A	A	A
Naphtha (Petroleum Spirits) (Thinner) Petroleum fractions	C	X	A	X	A	A	A	C	A	B	A	A	X	A
Naphtha Coal Tar (Benzol) Hydrocarbons	X	X	X	X		A	A	A	A	B	A	A		
Naphthalene (Tar Camphor) <chem>C10H8</chem>	C	X	X	X	C	A	A	C	B	A	A	A	A	A
Naphthoic Acid <chem>C11H8O2</chem>			B	X		A	A		B	B	A	B		
Neatsfoot Oil			A	C		A	A	B			A			
Neohexane (2,2-dimethylbutane) <chem>C6H14</chem>			A			A	A							
Neosol	X	A	A	B		C	A		B	B	A	A		
Neville Acid		C	C	C		B	A	A						

RATING KEY: (A) Excellent (B) Good (C) Fair to Poor (X) Not Recommended No Data Available.

CHEMICAL Formula	ELASTOMERS							METAL PARTS			PLASTICS				
	POLYURETHANE	NEOPRENE	BUNA-N	E.P.D.M.	HYTREL®	(VT) FKM FLUOROCARBON	PTFE, PFA	(TPEX) SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	HASTELLOY	POLYPROPYLENE	ACETAL	PVDF
Nickel Acetate <chem>Ni(CH3CO2)2</chem>		B	B	A		X	A	A	10% B		A		A		A
Nickel Chloride <chem>NiCl2</chem>	A	A	A	A	X	A	A	A	X	X	B	80% A ^{200°}	A	B	A
Nickel Nitrate <chem>Ni(NO3)2 • 6H2O</chem>		A	A	A		A	A		X		A	B	A		A
Nickel Sulfate <chem>NiSO4</chem>	A	A	A	A		A	A	A	X	X	40% A	B	A	A	A
Nitrana (Ammonia Fertilizer)		B	B			C	A				A				
Nitric Acid — 10% <chem>HNO3</chem>	C	B	X	B	C	A	A	A	A	X	A	A	A		A
Nitric Acid — 25% <chem>HNO3</chem>	C	C	X	B	X	A	A	20% B	X	X	30% A	30% A	A		A
Nitric Acid — 35% <chem>HNO3</chem>	C	X	X	C	X	A	A		X	X	50% A	50% A	B		A
Nitric Acid — 50% <chem>HNO3</chem>	C	X	X	X	X	A	A	C	X	X	A	X	C		A
Nitric Acid — 70% <chem>HNO3</chem>	X	X	X	X	X	A	A			X	A	X			A
Nitric Acid (Conc.) <chem>HNO3</chem>	X	X	X	X	X	B	A	C	A	X	A	40% A	X		A ^{120°}
Nitric Acid (Red Fuming)	X	X	X	X	X	B	A	X	A	X	A	B	X		C
Nitrobenzene <chem>C6H5NO2</chem>	X	X	X	X	X	B	A	B	A	A	A	55% B ^{212°}	B	B	A ^{70°}
Nitroethane <chem>C2H5NO2</chem>		C	X	C		X	A	A	A	A	A	A	C		A ^{70°}
Nitrogen Tetroxide <chem>N2O4</chem>		X	X	X	50% B	C	A		A	B	A	A	X		C
Nitromethane <chem>CH3NO2</chem>		C	X	C	X	X	A	A	A	A	A	A	C	A ^{120°}	B
1-Nitropropane <chem>CH3(CH2)2NO2</chem>		C	X	A		X	A		A	A	A	A			
Octadecane <chem>CH3(CH2)16CH3</chem>	A	B	A	X		A	A	B							
n-Octane <chem>C8H18</chem>			A	X		A	A	B					X		A
Octyl Acetate <chem>CH3COO • (CH2)7CH3</chem>			X			X	A		A		A				
Oleic Acid (Red Oil) <chem>C18H34O2</chem>	X	X	C	C	A	B	A		A	C	B	A	B	B	A
Octachlorotoluene <chem>C7Cl8</chem>		X	X			A	A		X				X		
Oleum (Fuming Sulfuric Acid) <chem>H2SO4/SO3</chem>		X	C		20-25% X	A	A	X	X	X	A		X		X
Olein (Triolein) <chem>C57H104O6</chem>		C	B			A									
o-Dichlorobenzene <chem>C6H4Cl2</chem>		X	X			A	A	X	X	A	A		X		
Olive Oil Mixed glycerides of acids	A	C	A	C		A	A	B	A	A	A	A	A	A	A

Rating specific to % of concentration. Temperature shown is °F. Where not shown, temperature is 70°F (21°C) Ambient.

CHEMICAL Formula	ELASTOMERS							METAL PARTS			PLASTICS				
	POLYURETHANE	NEOPRENE	BUNA-N	E.P.D.M.	HYPREL®	(V) FKM FLUOROCARBON	PTFE, PFA (TPE X) SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	HASTELLOY	POLYPROPYLENE	ACETAL	PVDF	
Oxalic Acid $(\text{COOH})_2$		B	C	A	X	C	A	A	B	X	90% B	B	A	X	A^{120°
Ozone O_3	A	B	X	A	C	A	A	A	10% A	0% A	A	A	X	C	A
Paints & Solvents		X	X				A		X		A	A			
Paint Thinner, DUCO Hydrocarbons	X	C	A	X		B	A	C	X		A	A	X		
Palm Oil Mixture of terpenes		C	A			A	A	B		A	A	A			
Palmitic Acid $\text{CH}_3(\text{CH}_2)_{14}\text{COOH}$	A	C	B	B	A	B	A	B	B	B	A		A		A
Paraffins (Paraffin Oil) Hydrocarbons			A				A	A	A		A	A	A	A	A
Paraformaldehyde $(\text{CH}_2\text{O})_n$		B	B			C	A		10% A	A	A	A			
Paraldehyde $\text{C}_6\text{H}_{12}\text{O}_3$		B	C	A		X	A		A	A	A	A			
Peanut Oil Glycerides of fatty acids	C	B	A	X		A	A	B		A	A	A	A^{70°		A
Pentachloroethane (Pentalin) $\text{Cl}_2 \bullet \text{CHCCl}_3$			X	X		A	A		X	A	A	A			
Pentachlorophenol (PCP) $\text{C}_6\text{Cl}_5\text{OH}$		X	X	X		A	A		A	A	A	A			
Pentane (Amyl Hydride) C_5H_{12}		B	A	X	B	A	A	A	A	B	B				
Peppermint Oil		X	X			A	A	C			A				
Perchloric Acid HClO_4		B	X	B	X	A	70% A	C	X	X	B		C	A	
Perchloroethylene (Tetrachloroethylene) C_2Cl_4	X	X	X	X	X	A	A	X	X	B	90% A	B	X	A	A
Petroleum (Crude Oil) (Sour) Hydrocarbons	C	C	B	X	C	A	A		B	B	A	A	X	A	A
Phenethyl Alcohol (Benzyl Carbinol) $\text{C}_6\text{H}_5(\text{CH}_2)_2\text{OH}$	X	X	X	B		X	A		A	A	A	A			
Phenol (Carbolic Acid) $\text{C}_6\text{H}_5\text{OH}$	X	C	X	C	X	A	A	A	B	A	B	A	C	X	A^{100°
Phenyl Sulfonic Acid $\text{C}_6\text{H}_4(\text{OH})\text{SO}_3\text{H}$			X			X	A		B	B	B				
Phenyl Acetate $\text{CH}_3\text{COOC}_6\text{H}_5$	X	X	X	B		X	A								
Phenylbenzene C_6H_5		X	X			A	A	C							
Phenyl Ethyl Ether (Phenetole) $\text{C}_6\text{H}_5\text{OC}_2\text{H}_5$		X	X	X		C	A	C							
Phenyl Hydrazine $\text{C}_6\text{H}_5\text{NHNH}_2$		X	X	X		A	A	B	A	X			X		A^{120°

RATING KEY: (A) Excellent (B) Good (C) Fair to Poor (X) Not Recommended No Data Available.

CHEMICAL Formula	ELASTOMERS						METAL PARTS			PLASTICS					
	POLYURETHANE	NEOPRENE	BUNA-N	E.P.D.M.	HYTREL®	(VT) FKM FLUOROCARBON	PTFE, PFA	(TPE XL) SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	HASTELLOY	POLYPROPYLENE	ACETAL	PIVDF
Phorone (Diisopropylidene Acetone) $C_6H_{14}O$		X	X	C		A	A	B							
Phosphoric Acid — 10% H_3PO_4	A	B	A	A		A	A	A	X	X	A		A^{120°		A
Phosphoric Acid — 20% H_3PO_4	A	B	C	A		A	A	A	X	X	A^{212°	A	A^{120°		A
Phosphoric Acid — 50% H_3PO_4	A	B	X	B		A	A	45% B	X	X	A	C	A^{120°		A
Phosphoric Acid (Conc.) H_3PO_4	C	B	X	B	X	A	A		X	X	A^{212°		A^{120°		A
Phosphorus Oxychloride $POCl_3$		X					A		B	B	B	B			
Phosphorus Trichloride PCl_3		X	X	A		A	A	B	C	B	A	A	X		A
Photographic Developer		A	A		X	A		A	C	X	A	A	A	C	A
Pickling Solution	C	X		X		B	A	A				A			
$(NO_2)_3 \cdot C_6H_2OH$	B	B	B	B	X	A	A	B	A	C	A	B	B		A
Pine Oil (Yarmor) Cyclic terpene alcohols		X	B	X		A	A	C	A	B	A				
Pinene $C_{10}H_{16}$	C	X	B	X		A	A	C							
Piperidine $C_5H_{11}N$		X	X	X		X	A	B							
Plating Solution — Cadmium			B	B					A			A		X	
Plating Solution — Chrome	X	X	X	C		A	A	A					A^{131°	X	
Plating Solution — Lead		B	B				A	A						A	
Plating Solution — Others	C	A	A			B	A	A			A				
Polyvinyl Acetate Emulsion $PVC + H_2O$		C		A			A	A		B					A
Potassium Acetate CH_3CO_2K		B	B	A		X	A	A	10% B	A	B	B	A		A
Potassium Bicarbonate $KHCO_3$		A	A			A	A	A	B	50% B	30% A	50% B	A		A
Potassium Bisulfate $KHSO_4$		A	A			A	A		10% A	X	10% A		A		A
Potassium Bisulfite $KHSO_3$		A	A			A	A		10% B		10% B	90% B			
Potassium Bromide KBr		A	A	A		A	A	A	A	80% B ^{212°}	90% B ^{212°}	70% A ^{167°}	A		A
Potassium Carbonate (Potash) K_2CO_3	C	A	A	A		A	A	A	X	B	B	90% A	A	B	A
Potassium Chlorate $KClO_3$		A	A	A		A	A	A	X	B	60% A	20% A	A	B	A
Potassium Chloride KCl	A	A	A	A		A	A	A	X	B	A	30% A ^{167°}	A	B	A
Potassium Chromate K_2CrO_4		A	A			50% A	A	A	A	A	A		A		A

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CHEMICAL Formula	ELASTOMERS							METAL PARTS			PLASTICS				
	POLYURETHANE	NEOPRENE	BUNA-N	E.P.D.M.	HYTREL®	(V) FKM FLUOROCARBON	PTFE, PFA	(TPE X) SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	HASTELLOY	POLYPROPYLENE	ACETAL	PVDF
Potassium Copper Cyanide <chem>K3[Cu(CN)4]</chem>	A	A	A	A		A	A						A		A
Potassium Cyanide <chem>KCN</chem>	A	A	A	A		A	A	A	C	B	90% ^B ^{212°}	30% ^B	A	C	A
Potassium Dichromate <chem>K2Cr2O7</chem>	A	A	A	A		A	A	A	A	A	A	25% ^B	A	C	A
Potassium Hydroxide (Caustic Potash) (Lye) <chem>KOH</chem>	B	B	B	A	C	B	A	A	X	B	A	50% ^B	A	C	^A ^{150°}
Potassium Iodide <chem>KI</chem>		A	A	A		A	A		10% ^B		B	B	A		A
Potassium Nitrate (Saltpeter) <chem>KNO3</chem>	A	A	A	A		A	A	A	80% ^A	B	80% ^B ^{212°}	80% ^B ^{212°}	A	B	A
Potassium Nitrite <chem>KNO2</chem>	A	A	A	A	B	A	A		B	B	B	B			
Potassium Permanganate (Purple Salt) <chem>KMnO4</chem>		C	C	A	X	B	A	A	10% ^A	B	30% ^B ^{212°}	A	B	A	A
Potassium Phosphate <chem>KH2PO4</chem>		A	A	A		A	A		X	X	30% ^B	10% ^B			
Potassium Silicate <chem>K2Si2O5</chem>		A	A	A		A	A		B	B	B	B			
Potassium Sulfate <chem>K2SO4</chem>	A	A	A	A	B	A	A	A	B	B	A	A	A	B	A
Potassium Sulfide <chem>K2S</chem>	A	A	A	A		A	A		X	B	B	10% ^B	A		A
Potassium Sulfite <chem>K2SO3·2H2O</chem>		A	A	A		A	A		A	X	50% ^B		A		A
Propane (LPG) <chem>C3H8</chem>	B	B	A	X	B	A	A	C	A	A	A	A	X	A	A
Propionaldehyde (Propanal) <chem>C2H5CHO</chem>			X			X	A		A	A	A	A			
Propionic Acid (Methylacetic Acid) <chem>CH3CH2CO2H</chem>		X	X	A		A	A		A	X	B	90% ^A			
n-Propyl Acetate <chem>CH3COO · (CH2)2CH3</chem>		X	X	A		X	A	B	A		A	A	C		A
Propyl Alcohol (1-Propanol) <chem>CH3CH2CH2OH</chem>	X	B	B	A		A	A		A	A	A	A	A	A	A
n-Propyl Nitrate (NPN) <chem>CH3(CH2)2NO2</chem>			A	B		C	A	B	A	X					
Propylene <chem>C3H6</chem>		X	X	X		A	A	B	A	A	A	A			
Propylene Dichloride <chem>CH3CH(Cl)CH2Cl</chem>		X	X	X		B	A		X	A	A	B			
Propylene Glycol (Methyl Glycol) <chem>C3H6(OH)2</chem>		C	A	A		A	A	A	A	A	A	A	A	A	A
Propylene Oxide <chem>C3H6O</chem>		X		C		X	A	A	B	B	A		X		X
Pydraul (Phosphate Ester Base Fluid)	X	X	X	B	A	A	A	A		A	A	A			

RATING KEY: (A) Excellent (B) Good (C) Fair to Poor (X) Not Recommended No Data Available.

CHEMICAL Formula	ELASTOMERS						METAL PARTS			PLASTICS					
	POLYURETHANE	NEOPRENE	BUNA-N	E.P.D.M.	HYTREL®	(VT) FKM FLUOROCARBON	PTFE, PFA	(TPE XL) SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	HASTELLOY	POLYPROPYLENE	ACETAL	PVDF
Pyranol		X	A			A	A								
Pyridine $N(CH_3)_2CH$	X	X	X	C	X	X	A	A	A	B	A	$50\%A^{100^{\circ}}$	C	A	X
Pyroligneous Acid (Wood Vinegar)		C	C	C		A	A		B	X	$10\%A$		A	X	A
Pyrrole (Azole) C_4H_5N		X	X	X		C	A	C							
Quaternary Ammonium Salts $NH_3(X)$		A	A			A	A			X	A				
Quench Oil		B	B			A	A		A		A	A	A		
Rape-Seed Oil (Colza Oil)	C	C	B	A		A	A	B		A	A	A			
Rose Oil Geraniol, citronellol		C				A	A	A			A				
Rosin $C_{20}H_{30}O_2$		C	A			A	A	A	A		A	A	A	B	
Rosin Oil (Rosinol)		A	A			A	A								
Rotenone $C_{23}H_{22}O_6$		A	A	A		A	A								
Rubber Latex Emulsions $(C_5H_8)_n/H_2O$						A	A		A		A	A			
Rubber Solvents (Petroleum Distillate) Hydrocarbons		C	X			X	A		A		A	A			
Rum Alcoholic liquor from molasses	X	A	A	A		B	A	A			A	A			
Rust Inhibitors		C	A			A		B			A		A		
Salad Dressing Fats, oils, water			A			A		A	B	X	A		A		
Sal Ammoniac (Ammonium Chloride) NH_4Cl	A	A	A	A	A	A	A	A	X	X	B	A	A	X	A
Sal Soda (Sodium Carbonate) $NaCO_3$		A	A	A		A	A		X	A	A	A			
Salicylic Acid $HO-C_6H_4-COOH$		B	B	A		B	A		A	X	B	A	A		A
Salt Water (Brine) $NaCl/H_2O$	A	B	A	A	A	A	A	A	B	X	A	A	A		A
Sea Water (Brine)	A	B	A	A	X	A	A	A	A	C	A	A	A	A	A
Sesame Seed Oil Olein, stearin, palmitin		C	A			A	A	B		A	A				
Sewage	X	B	A	C	B	A	A	A	B	B	A	A	A		A
Silicate Esters $Si(OR)_4$	A	A	B	X	C	A	A	B							
Silicone Oils (Versilube Etc.) $(CH_3)_2SiO_2n$	A	C	A	A	A	A	A	C	B	B	A	A	A		A
Silver Cyanide $AgCN$		A					A		X	A	A	A	A		A

Rating specific to % of concentration. Temperature shown is °F. Where not shown, temperature is 70°F (21°C) Ambient.

CHEMICAL Formula	ELASTOMERS							METAL PARTS			PLASTICS				
	POLYURETHANE	NEOPRENE	BUNA-N	E.P.D.M.	HYPREL®	(V) FKM FLUOROCARBON	PTFE, PFA (TPE X) SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	HASTELLOY	POLYPROPYLENE	ACETAL	PVDF	
Silver Nitrate <chem>AgNO3</chem>	A	A	B	A		A	A	X	X	60% A	60% A	A	A	A	
Skydrol Hydraulic Fluid® (Phosphate Ester Base)		X	X	A	A	C	A	B		A	A				
Soap Solutions Salt of fatty acid in H ₂ O	A	B	A	A	A	A	A	C	X	A	A	A	A	A	
Soda Ash (Sodium Carbonate) <chem>Na2CO3</chem>		A	A	A	B	A	A	X	A	A	A				
Sodium Acetate <chem>CH3COONa</chem>	X	C	C	A		X	A	A	A	A	A	A	A	A	
Sodium Aluminate <chem>Na2Al2O4</chem>		A	A			A	A	A	50% A	50% A	10% B	A		A	
Sodium Bicarbonate (Baking Soda) <chem>NaHCO3</chem>		A	A	A	B	A	A	B	C	20% A	20% A	A	X	A	
Sodium Bisulfite (Niter Cake) <chem>NaHSO3</chem>		A	A	A	B	A	A	50% B	C	50% B	B	A	C	A	
Sodium Bisulfite (Cream of Tartar) <chem>NaHSO3</chem>		A	C	A	B	A	A	B	20% B	50% A	B	A	X	A	
Sodium Borate <chem>Na2B4O7</chem>		A	A	A	B	A	A	B		A	A	A ^{140°}	C	A	
Sodium Bromide <chem>NaBr</chem>							A	C	C	30% B	50% B	A		A	
Sodium Chlorate <chem>NaClO3</chem>		B	A	A		A	A	70% B ^{212°}	B	B	70% B ^{212°}	A	B	A	
Sodium Chloride (Table Salt) <chem>NaCl</chem>	A	A	A	A	A	A	A	B	30% B	A	A	A	A	A	
Sodium Chromate <chem>Na2CrO4</chem>		A	A		A	A	A	60% A	60% A	60% A	A		A	A	
Sodium Cyanide <chem>NaCN</chem>		A	A	A	A	A	A	X	A	A		A	C	A	
Sodium Dichromate (Sodium Bichromate) <chem>Na2Cr2O7 • 2H2O</chem>	A	B		A	20% X	A	A					A		A	
Sodium Fluoride <chem>NaF</chem>		A	A	A		A	A	30% B		10% B	10% B	A		A	
Sodium Hexametaphosphate (Calgon) <chem>(NaPO3)6</chem>	B	B	B	B		A	A	C	B	B	A				
Sodium Hydroxide (Caustic Soda) (Lye) <chem>NaOH</chem>	C	B	B	A	X	X	A	50% A	X	50% B	50% A	70% B ^{212°}	A	X	A
Sodium Hypochlorite <chem>NaClO</chem>	X	B	X	C	5% A	B	A	20% A	X	X	X	10% B	X	X	A
Sodium Metaphosphate (Kurrol's Salt) <chem>Na(PO3)2H</chem>	B	C	B	A		A	A	X		B	A	X	B		
Sodium Metasilicate <chem>Na2SiO3</chem>		A	A			A	A	B		A	A	A	B	A	
Sodium Nitrate (Chile Saltpeter) <chem>NaNO3</chem>		B	C	A	B	A	A	90% A	90% A	90% A	30% A	A	A	A	

RATING KEY: (A) Excellent (B) Good (C) Fair to Poor (X) Not Recommended No Data Available.

CHEMICAL Formula	ELASTOMERS							METAL PARTS			PLASTICS				
	POLYURETHANE	NEOPRENE	BUNA-N	E.P.D.M.	HYTREL®	(VT) FKM FLUOROCARBON	PTFE, PFA	(TPEX) SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	HASTELLOY	POLYPROPYLENE	ACETAL	PVDF
Sodium Nitrite <chem>NaNO2</chem>	X	A				A	A		A	A	A	A	A		A
Sodium Perborate <chem>NaBO3</chem>	B	C	A	B	A	A	A	X	10% ^B	A	10% ^B	A	B	A	
Sodium Peroxide (Sodium Dioxide) <chem>Na2O2</chem>	X	B	B	B	B	A	A	B	10% ^B	90% ^A	0% ^B	10% ^B	B	X	A
Sodium Phosphate (Tribasic) (TSP) <chem>Na3PO4</chem>	A	B	B	A	B	A	A	X	B ^{167°}	B	A	A			A
Sodium Silicates (Water Glass) <chem>Na2O • SiO2</chem>		A	A	A	A	A	A	A	A	A	A	B	A		A
Sodium Sulfate (Salt Cake) (Thenardite) <chem>Na2SO4</chem>	A	B	A	A	A	A	A	30% ^B	B	A	A	A			A
Sodium Sulfide (Pentahydrate) <chem>Na2S • 5H2O</chem>	A	A	A	A	A	A	A	30% ^A 212 [°]	B	30% ^A 167 [°]	50% ^B 212 [°]	A	A	A	
Sodium Sulfite <chem>Na2SO3</chem>	A	A	A	A	A	A	A	30% ^A	X	30% ^A	30% ^B 212 [°]	A	A	A	
Sodium Tetraborate <chem>Na2B4O7 • 10H2O</chem>				A		B		A			A		C		
Sodium Thiosulfate (Antichlor) <chem>Na2S2O3</chem>	A	A	A	A		A	A	A	C	A122 [°]	B122 [°]	A	B	A	
Sorgum			A	A				A		A	A	A			
Soybean Oil Triglycerides of acids	C	A	A	C	A	A	A	B	A	A	A	A	B	B	
Soy Sauce Fermented soya bean/wheat			A	A				A		X	A				
Sperm Oil (Whale Oil) Fatty acid esters	X	A			A	A	B		A	A	A				
Stannic Chloride (Tin Chloride) <chem>SnCl4</chem>	B	B	A	B	B	A	A	A	X	C	10% ^A	B	A		A
Stannous Chloride (Tin Chloride) <chem>SnCl2</chem>	B	A	A	B	15% ^B	A	A		X	B	10% ^A	A	A		A
Starch <chem>C6H10O5</chem>		A	A	B	B	C	A	A	A	C	A	A	A	B	
Stearic Acid <chem>CH3(CH2)16CO2H</chem>	A	158 [°] ^B	B	B	B	A	A	B	C	C	A	B	A	C	A
Stoddard Solvent Petroleum distillate	A	C	A	X	A		A	C	A	A	A	X	A	A	X
Styrene (Vinylbenzene) <chem>C6H5CHCH2</chem>	C	X	X	X	X	A	A	C	A	A	A	A			A
Sucrose Solution (Sugar) <chem>C12H22O11/H2O</chem>	X	A	A	A	A	A	A	A	A	A	A	A			
Sulfamic Acid <chem>H2NSO3H</chem>		A	B		A		A		10% ^A	X	X		X		X
Sulfite Liquors			B	A	C	B			A				A		
Sulfur	S	B	B	X	A	A	A		A	A	A	A	B	A	A
Sulfur Chloride <chem>S2Cl2</chem>		X	C	X	C	A	A	X	B	X	B	A	X		A

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CHEMICAL Formula	ELASTOMERS							METAL PARTS			PLASTICS				
	POLYURETHANE	NEOPRENE	BUNA-N	E.P.D.M.	HYPREL®	(V) FKM FLUOROCARBON	PTFE, PFA	(TPE X) SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	HASTELLOY	POLYPROPYLENE	ACETAL	PVDF
Sulfur Dioxide <chem>SO2</chem>	B	A	X	B	X	A	A	A	A	B	10% A	80% A	A	B	A
Sulfur Hexafluoride <chem>SF6</chem>		A	B	A	A	A	A	B							
Sulfur Trioxide <chem>SO3</chem>	B	C	C	C	X	A	A	C	B	B	B	B	X		X
Sulfuric Acid 10% <chem>H2SO4</chem>	B	A	B	A	A	A	A	A	X	X	A	A	A		A
Sulfuric Acid 25% <chem>H2SO4</chem>	X	B	C	B	A	A	A	A	X	X	B	A	A		A^{150°
Sulfuric Acid 50% <chem>H2SO4</chem>	X	B	C	B	A	A	A	A	X	X	X	A	A		A^{150°
Sulfuric Acid 60% <chem>H2SO4</chem>	X	C	X	B	X	A	A	A	X	X	X	A	A		A^{150°
Sulfuric Acid 75% <chem>H2SO4</chem>	X	X	X	C	X	A	A	A	X	C	C	A	A		A^{150°
Sulfuric Acid 95% <chem>H2SO4</chem>	X	X	X	C	X	A	A	A	X	B	A	A	X		A^{120°
Sulfuric Acid (Conc.) <chem>H2SO4</chem>	X	X	X	C		A	A	98% B	X	B	B	A	X		A^{120°
Sulfuric Acid (Fuming) <chem>H2SO4</chem>	X	X	X	X	20% X	B	A		C	X	B	B			
Sulfurous Acid <chem>H2SO3</chem>	X	X	B	C	C	A	A	A	B	X	B	B	A	X	A
Tall Oil (Liquid Rosin) Rosin acids		B	A	X		A	A	A	X	B^{212°	B	A	A		A
Tallow Fat from cattle, sheep			A			A	A	B	A		A		B	C	
Tannic Acid <chem>C76H52O46</chem>	A	B	C	C	10% A	A	A	A	A	A	A	10% B	A	X	A
Tanning Liquors Tannic acid		B	A					A	A	A	A	A	A	X	
Tar, Bituminous(Coal Tar) (Pitch) Mixture of aromatic		C	B	X	X	A	A	B	A		A	A	A	A	A
& phenolic hydrocarbons															
Tartaric Acid <chem>C4H6O6</chem>	A	A	B	B	B	A	A	A	20% A	X	A	90% A	A	X	A
Terpenes <chem>C10</chem> hydrocarbons	C	X	C	X		A	A		A	X					
Terpineol (Terpinol) <chem>C10H18O</chem>	X	X	C	C		A	A	B	A	A	A	A	X		B^{120°
Tertiary Butyl Alcohol <chem>(CH3)3COH</chem>		A	A			B	A	B					B		
Tertiary Butyl Catechol <chem>C9H14O2</chem>		B	X			A	A	B	C	B	B				
Tertiary Butyl Mercaptan <chem>C4H10S</chem>		X	X			A	A	B							
Tetra Bromomethane <chem>CBr4</chem>		X	X			A	A	X	X				X		
Tetrabutyl Titanate <chem>Ti(C4H9)4</chem>		A	B	B		A	A	B							

RATING KEY: (A) Excellent (B) Good (C) Fair to Poor (X) Not Recommended No Data Available.

CHEMICAL Formula	ELASTOMERS							METAL PARTS			PLASTICS				
	POLYURETHANE	NEOPRENE	BUNA-N	E.P.D.M.	HYTREL®	(VT) FKM FLUOROCARBON	PTFE, PFA	(TPE X) SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	HASTELLOY	POLYPROPYLENE	ACETAL	PVDF
Tetrachloroethylene <chem>Cl2C = CCl2</chem>							X						A		
Tetrachlorodifluoroethane <chem>(Cl2FC)2</chem>		X	X				A								
Tetrachloroethane (Acetylene Tetrachloride) <chem>(Cl2HC)2</chem>		X	X	X		A	A	X	X	A	C	90% A ^{212°}	X	A	A
Tetraethyl Lead <chem>Pb(C2H5)4</chem>		X	B	X		B	A	C	B	A	A		A		A
Tetraethylene Glycol (TEG) <chem>HOCH2(CH2OCH2)3CH2OH</chem>			A			A	A								
Tetrahydrofuran (THF) <chem>C4H8O</chem>	C	X	X	C	C	X	A	B					C ^{100°}	A	B ^{70°}
Tetrahydronaphthalene (Tetralin) <chem>C10H12</chem>		X	X	X		A	A		A	A	A	A	C		
Thionyl Chloride <chem>SOCl2</chem>		X	X	X		B	A	B	C	A	A	10% A	B	B	X
Thiophene <chem>C4H4S</chem>		X	X	X		C	A								
Titanium Tetrachloride <chem>TiCl4</chem>		X	C	X		A	A	X	X	A	B	B	B		B
Toluene (Toluol) <chem>C6H8</chem>	X	X	C	X	C	B	A	C	A	A	A	A	X	B	A
Toluene Diisocyanate <chem>CH2C6H5(NCO)2</chem>		X		A	B		A	B							
Toluidine <chem>CH3C6H4 • H4NH2</chem>			X			B	A		A	A	A	A			
Tomato Pulp & Juice			A				A	A	B		A	A	A		A
Toothpaste		C	A			A	A			X	A	A			
Transformer Oil (Petroleum) Hydrocarbons	X	C	B	X		A	A	X	A	A	A	A	B	C	
Transmission Fluid (Type A)	A	C	A	X	B	A	A	C	A	A	A	A			
Triacetin <chem>C3H5(OOCCH3)3</chem>	X	B	A	A		X	A	A	B						
Triallyl Phosphate <chem>P(OC3H5)3</chem>	C	C	X	A		A	A						B		A
Triaryl Phosphate <chem>(C6H5O)3PO</chem>		C	X			A	A								
Tributyoxy Ethyl Phosphate <chem>(C4H9O)3P(C2H5)</chem>	X	X	X	A		B	A	B							
Tributyl Phosphate (TBP) <chem>(C4H9)3PO4</chem>	X	X	X	C	C	X	A	B	A	A	A		B ^{100°}		A ^{100°}
Dibutyl Mercaptan <chem>(C4H9)2S</chem>		X	X			A	A	B							
Trichloroacetic Acid (TCA) <chem>CCl3COOH</chem>		B	C	C	X	B	A	B	X	X	X	B	B		B
Trichlorobenzenes <chem>C6H3Cl3</chem>		X	X			B	A		X	A	A	B			
Trichloroethane <chem>C2H3Cl3</chem>	X	X	X	X		B	A	X	X	A	A	A	X		A

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CHEMICAL Formula	ELASTOMERS								METAL PARTS			PLASTICS			
	POLYURETHANE	NEOPRENE	BUNA-N	E.P.D.M.	HYTREL®	(V) FKM FLUOROCARBON	PTFE, PFA	SANTOPRENE® (TPE X)	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	HASTELLOY	POLYPROPYLENE	ACETAL	PVDF
Trichloroethylene (Ex-Tri) (Hi-Tri)® <chem>C2HCl3</chem>	X	X	X	X	X	C	A	X	X	B	90% A ^{167°}	A	X	B	A
Trichloropropane <chem>CH2C(=Cl)C(Cl)=CH2</chem>		A	X			B	A	X	X	A	A	A	X		
Tricresyl Phosphate (Lindol) (TCP)® <chem>(CH3C6H5O)3 • PO</chem>	X	C	X	A	C	C	A	B		A	B	A	B		X
Tricresyl Alcohol (Tridecanol) <chem>C12H25 • CH2OH</chem>			A			B	A								
Triethanol Amine (TEA) <chem>N(C2H4OH)3</chem>	X	A	X	B	X	C	A	A	A	A	A	A	A	B	X
Triethyl Aluminum (ATE) <chem>Al(C2H5)3</chem>		X	X			B	A	B							
Triethyl Amine <chem>(CH3CH2)3N</chem>		B	A				A			A	A	A	C		A ^{120°}
Triethyl Borane <chem>(C2H5)3B</chem>		X	X			A	A	B							
Triethylene Glycol (TEG) <chem>(CH2OCH2CH2OH)2</chem>			A			A	A							A	
Trimethylene Glycol <chem>HO(CH2)3OH</chem>			A	A		A	A		A	A	A	A			
Trinitrotoluene (TNT) <chem>CH3C6H2(NO2)3</chem>		B	X	X		C	A	A							
Trioctyl Phosphate <chem>(C8H17O)3PO</chem>		X	X	A		B	A	B							
Tung Oil (Wood Oil) Fatty acids	C	C	A	X	B	A	A	B	A		A	A	A	A	
Turpentine <chem>C10H16</chem>	X	X	A	X	B	A	A	C	A	A	A	A	X	A	A
Unsymmetrical Dimethyl Hydrazine (UDMN) <chem>H2NN(CH3)2</chem>		C	C	A		X	A	B							A
Urea (Carbamide) <chem>CO(NH2)2</chem>		B	B		B	A	A		B		50% B		A	A	A
Urine		X	A			A	A	A	A	A	A	A	A	C	A
Valeric Acid <chem>CH3(CH2)3COOH</chem>		X	X	A			A		A						
Vanilla Extract (Vanillin) <chem>C6H3(CHO) • (OCH3)(OH)</chem>		X	A			X	A			A					
Varnish Oil, gum resins, oil of turpentine		C	B	X		A	A		A		A	A	A	A	A
Vegetable Juices		C	A				A	A	C		A				
Vegetable Oils	A	C	B	A		A	A	B	A	B	A	A	X		
Vinegar Dilute acetic acid	X	B	C	A	C	A	A	A	C	X	A	A	A	C	A
Vinyl Acetate <chem>CH3COOC, HCH2</chem>		B	X			X	A		B	A	A	A	B		A
Vinyl Chloride (Chloroethylene) <chem>CH2CHCl</chem>		X	X	C		A	A	X	X	A	A	A	X		B

RATING KEY: (A) Excellent (B) Good (C) Fair to Poor (X) Not Recommended No Data Available.

CHEMICAL Formula	ELASTOMERS							METAL PARTS			PLASTICS			
	POLYURETHANE	NEOPRENE	BUNA-N	E.P.D.M.	HYTREL®	(V) FKM FLUOROCARBON	PTFE, PFA	(TPE X) SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	HASTELLOY	POLYPROPYLENE	ACETAL
Walnut Oil		B	A			A	A							
Water, Distilled (Also Deionized) H ₂ O	A	C	A	A		A	A	A	A	C	A	A	A	A
Water, Fresh H ₂ O	A	B	A	A	A ^{72°}	A	A	A	A	A	A	A	A	A
Waxes Hydrocarbons		A	A	X			A		A		A	A		A
Weed Killers		C	B			A		B	X		A			
Whiskey Ethanol, esters, acids	A	A	B	A	B	A	A	A	A	X	A	A	A	B
White Oil (Mineral) (Petroleum) Mixture of liquid hydrocarbons		C	A	X		A	A	C			A	A		
White Sulfate Liquor		A	B	A		B	A		B	C	A	B	A	A
Wines	X	A	A	A	A	B	A	A	C	X	A	A	A	B
Wort, Distillery Sugar solution from malt		A				A	A		A	B	A	A		
Xylene (Xylool) C ₆ H ₄ (CH ₃) ₂	X	X	X	X	C	A	A	C	A	B	B	A	X	A
Xylidines (Xylidin) (CH ₃) ₂ C ₆ H ₃ NH ₂		X		X		X	A	C	B	B				
Zeolite Hydrated alkali aluminum silicates		C	C	A		A	A	A			A	A		
Zinc Acetate Zn(C ₂ H ₃ O ₂) ₂		B	C	A		X	A	A	C				A	A
Zinc Carbonate ZnCO ₃			A			A	A		B	B	B	B		
Zinc Chloride ZnCl ₂	A	B	B	A	A	A	A	A	^{10%} A	B	^{10%} A	A	A	B
Zinc Hydrosulfite ZnHSO ₃		A	A			A	A	A	X		A			
Zinc Sulfate ZnSO ₄		A	A	A	X	B	A	A	^{20%} B	X	B	^{90%} B	A	B

RATING KEY: (A) Excellent (B) Good (C) Fair to Poor (X) Not Recommended No Data Available.

Rating specific to % of concentration. Temperature shown is °F. Where not shown, temperature is 70°F (21°C) Ambient.

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