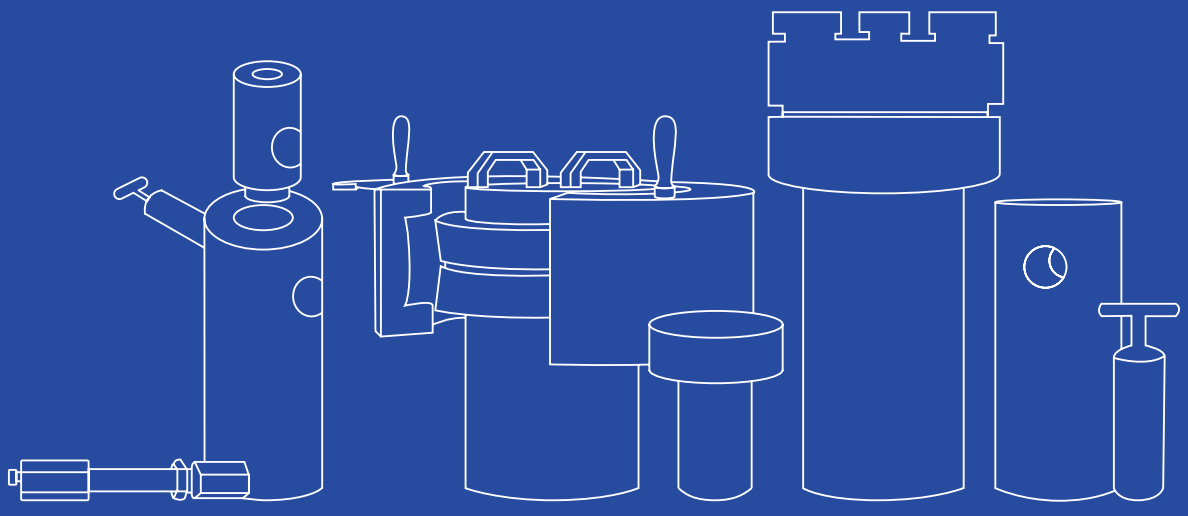
Pressure Vessel Selection Guide

압력용기 선정 가이드

Vessel Data_부식데이터

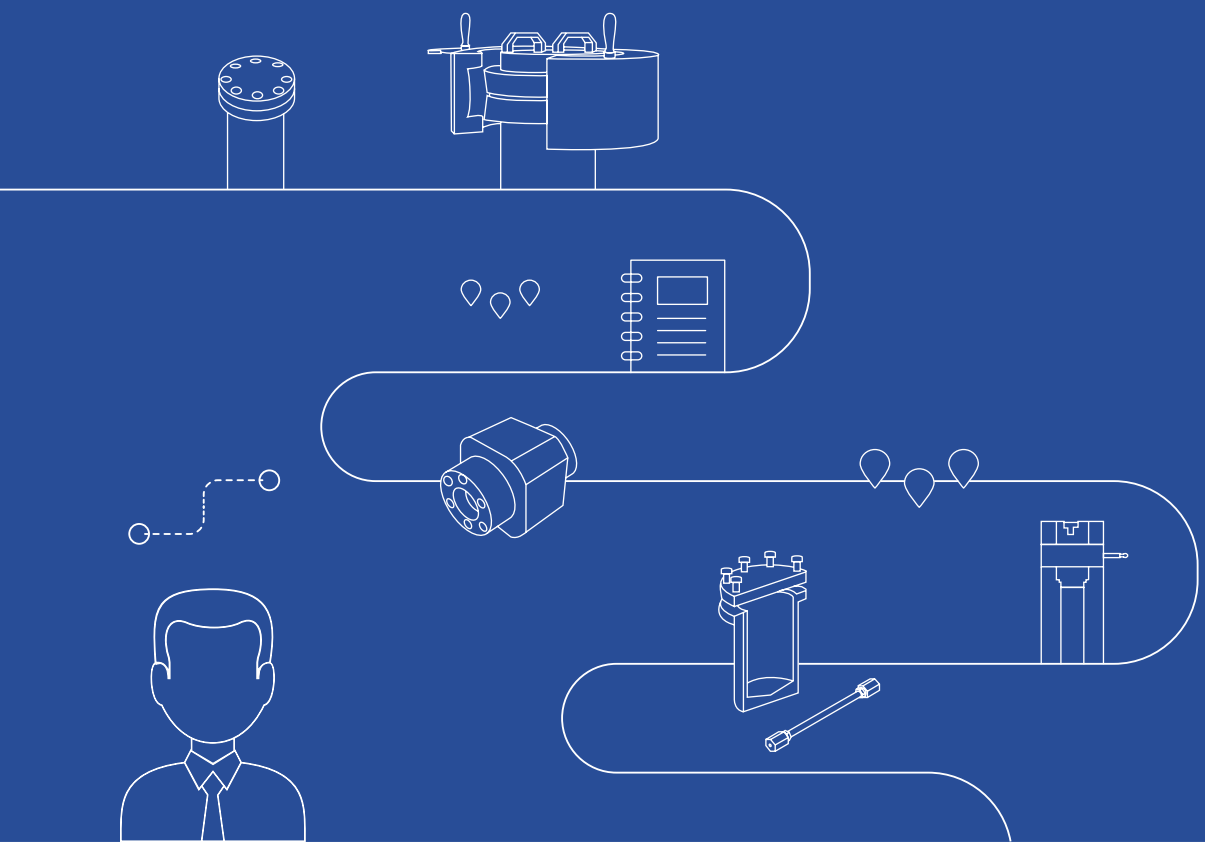


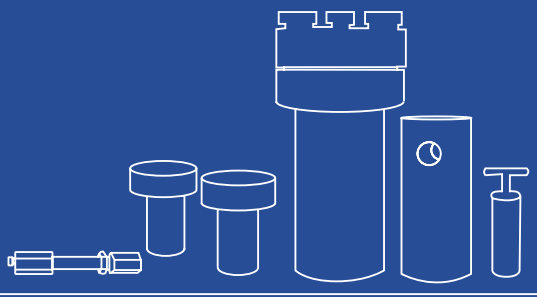
ILSHIN AUTOCLAVE

Ⅲ

압력용기 부식데이터

부식데이터에 따른 압력용기 선정 가이드





01 부식데이터

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CHEMICAL Formula	ELASTOMERS										METAL PARTS				PLASTICS					
	RUPPLON™ (Polyurethane)	NEOPRENE	BUNA-N	E.P.D.M.	HYTREL®	FLUROCARBON (Viton®)	BLUE GYLON®	PTFE,PFA	ENVELON®	SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	WR-C (Hastelloy Equiv.)	UNFILLED POLYPROPYLENE	ACETAL(Delrin®)	KYNAR® (PVDF)	NYLON	RYTON®	UHMW POLYETHYLENE
Acetaldehyde (Ethanal) CH_3CHO	X	X	X	A	B	X		A		B	A	B	A	A	C	A	A 150°	B	A	B
Acetamide (Acetic Acid Amide) CH_3CONH_2	X	B	B	A		B		A		A	A	X	X	A	A		A 140°	A	A	
Acetate Solvents CH_3COOR		X	X			X		A		B	A		A		X	A	A	A	A	B 122°
Acetic Acid -- 20%	B	B	C	A	A	C		A	A	B		A	A	C	B	A	B	A		A 122°
Acetic Acid -- 30%	X	B	C	A	A	X		A	A	B	X	A	A	C	B	B	B			A 122°
Acetic Acid -- 50% CH_3COOH	C	C	C	A		C		A	A	B	X	A	A	C	B	B	B			A 122°
Acetic Acid -- Glacial CH_3COOH	X	X	C	B	A	X		A	A	B	B	X	A	A	C	B	A 120°	X	A	B
Acetic Anhydride (Acetic Oxide) $(CH_3CO)_2O$	X	B	C	B	C	X	A	A	A	A	B	90% B 212°	A	A	X	X	B 70°	A	A	A
Acetone (Dimethylketone) CH_3COCH_3	X	X	X	A	C	X	A	A	A	B	B	A	A	A	X	B 120°	X	B		A 122°
Acetone Cyanohydrin $(CH_3)_2C(OH)CN$	X	B	X	X		X		A		A	B	B	B							
Acetonitrile (Methyl Cyanide) CH_3CN		A	C	A		X		A		A	A	A	A	B 100°		A	A	A		
Acetophenone (Phenyl Methyl Ketone) $C_6H_5COCH_3$	X	X	X	A		X		A		B	B	A	A	B	A 70°		A	A	A	
Acetyl Acetone (2,4-Pentanedione) $CH_3COCH_2COCH_3$	B	X	X	A		X		A		B	X	B	B							
Acetyl Chloride CH_3COCl		X	X	C	X	B		A		B	X	A	B	A	X		A	X	A	
Acetylene (Ethyne) HC℃H		C	A	A	A	A	A	A	A	C	A	A	A	A	X	A	A	B	A	
Acetyl Salicylic Acid (Aspirin) $(CH_3OCO) \cdot C_6H_4COOH$		X		B				A		A	X	B	B							A 140°
Acetylene Tetrabromide (Tetra Bromoethane) $(CHBr_2)_2$		X	X			A		A		X	X	A								
Acrolein (Acrylaldehyde) $H_2C = CHCHO$			B			A		A		A	B	B	B							
Acrylonitrile (Vinyl Cyanide) $CH_2=CHCN$		X	X	X		X		A	A	B	A	A	A	A	B		A	A		
Adipic Acid (1,4-Butanedicarboxylic Acid)		X	B			A		A		B	B	B	B	A	A		A	A		A 140°
Allyl Alcohol (2-Propen-1-ol) CH_2CHCH_2OH		A	A	A		B		A		B	A	A	A				A			A
Alcohols R-OH					B									A	A	A	A	A	A	A

R ATING KE Y: (A) E xcellent (B) Good (C) Fair to Poor (X) Not R ecommended No Data Available.
Data limited to % concentration and/or temperature℉ shown. Where not shown temperature is 70℉ (21 ℃) Ambient.

CHEMICAL Formula	ELASTOMERS										METAL PARTS				PLASTICS					
	RUPPLON™ (Polyurethane)	NEOPRENE	BUNA-N	E.P.D.M.	HYTREL®	FLUROCARBON (Viton®)	BLUE GYLON®	PTFE,PFA	ENVELON®	SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	WR-C (Hastelloy Equiv.)	UNFILLED POLYPROPYLENE	ACETAL(Delrin®)	KYNAR® (PVDF)	NYLON	RYTON®	UHMW POLYETHYLENE
Amyl (1-Pentanol) $C_4H_9CH_2OH$		B	B			B		A		A	B		A	A	B	A	A	A	A	A
Benzyl (Phenylcarbinol) $C_6H_5CH_2OH$		B	X			A		A		A	B		A	A	A		A			A 140°
Butyl (Butanol) $C_3H_7CH_2OH$		A	A			A		A		A	B		A	A	B	A	A	B	A	A 140°
Diacetone (Tyranton) $(CH_3)_2C(OH)\ CH_2COCH_3$	C	X	X	B		X		A		C	A	A	A	A	X	A	A	A		
Ethyl (Ethanol) CH_3CH_2OH	X	A	A		X	B		A		B	B	B	A	A	A 100°		A	X	A	A 140°
Hexyl (1-Hexanol) $C_5H_{11}CH_2OH$		B	A			A		A		B	A		A	A	A 70°		A			A 140°
Isobutyl (2-Methyl-1-Propanol) $C_3H_7CH_2OH$	X	A	C			A		A		A	B		A	A			A			A 140°
Isopropyl (2-Propanol) $H_3CCH(OH)CH_3$		B	C			A		A		B	B	C	A	A	A		A 150°			A 140°
Methyl (Methanol) CH_3OH		A	A	X		X		A		A	B	A	A	A	A 120°		A			A 140°
Octyl (Caprylic Alcohol) $C_7H_{15} \cdot CH_2OH$		B	B			A		A		B	A		A	A						
Propyl (Propanol) $C_2H_5CH_2OH$		A	A			A		A		A	A		A	A	A		A 120°			A 140°
Allyl Bromide (3-Bromopropene) $H_2C=CHCH_2Br$		X	X	X		B		A			X	A								
Allyl Chloride (3-Chloropropene) $CH_2=CHCH_2Cl$		X	X	X		B	A				X	C	B		A 70°		A			B
Alkazene® (Chlorethyl or Polyisopropyl benzenes)		X	X			A		A		X										
Almond Oil (Artificial)	X	X	X	B		X		A												
Alum (Aluminum Potassium Sulfate Dodecahydrate) $KAl(SO_4)_21 \cdot 2H_2O$		A	A	A		X		A	A	A			B	B	A		A	C		A 140°
Aluminum Acetate (Burow's Solution)		C	C	A		X		A		A		B	C	A	A	A 100°		A		A 140°
Aluminum Bromide $AlBr_3$		A	A					A									A			
Aluminum Chloride $AlCl_3$	B	A	A	A	B	A	A	A	A	20% A	X	C	B	25% A	A	B	A	B	A	
Aluminum Fluoride AlF_3		A	A	B		A	X	A	A	A	50% A	C	C	20% A	A	X	A	A	A	A 140°
Aluminum Hydroxide (Alumina Trihydrate) $Al(OH)_3$		A	B	A		C		A	A	A	10% B	30% B	B	10% B	A		A	A		A 140°

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	RUPPLON™ (Polyurethane)	NEOPRENE	BUNA-N	E.P.D.M.	HYTREL®	FLUROCARBON (Viton®)	BLUE GYLON®	PTFE,PFA	ENVELON®	SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	WR-C (Hastelloy Equiv.)	UNFILLED POLYPROPYLENE	ACETAL(Delrin®)	KYNAR® (PVDF)	NYLON	RYTON®	UHMW POLYETHYLENE
Aluminum Nitrate $Al(NO_3)_3 \cdot 9H_2O$		A	A	A		A		A	A	A	X		0% A	0% B	A		A	B		A 140°
Aluminum Phosphate $AlPO_4$		A	A	A		A		A		A										
Aluminum Potassium Sulfate (Potash Alum) $KAl(SO_4)_2$		A	A	A		A		A		A	10% A	X	A	B	A	A	A	X		A 140°
Aluminum Sodium Sulfate (Soda Alum) $NaAl(SO_4)_2$	A	A	A	A		A		A												
Aluminum Sulfate (Cake Alum) $Al_2(SO_4)_3$	A	A	A	A	B	A	A	A	A	A	30% B	X	50% A 167°	90% A 212°	A	B	A	A	A	A 120°
Amines $R-NH_2$		B	X		70% A	X				A	A		A		B	C		A	A	
Ammonia Anhydrous, Liquid NH_3	X	B	B	A	X	X		A		A	A	A	A	A	A	X	A	A	A	A
Ammonia Gas -- Cold		A	A			A		A		A										A
Ammonia Gas -- Hot		B	C			X		A		A										A 140°
Ammonia Liquors		A				X		A		A	A	A	A							
Ammonium Nitrate NH_4NO_3		B	A	A	B	A	A	A		A	B	B	A	A	A	B	A	C		A 140°
Ammonium Cupric Sulfate $(NH_4)_2Cu(SO_4)_2$			A			A		A												
Ammonium Acetate $CH_3CO_2NH_4$		A				A		A		A	50% B	50% A								A
Ammonium Bicarbonate NH_4HCO_3		A	A	A		A		A		B	B	90% B								A 140°
Ammonium Bifluoride -- 10% NH_4HF_2		X	B					A		A	C	X	B	B	A		A			
Ammonium Carbonate $(NH_4)_2CO_3$		B	X	A		A		A		A	B	B	70% B 212°	70% B 212°	A		A	A	A	A
Ammonium Casenite		A								A			A							
Ammonium Chloride (Sal Ammoniac) NH_4Cl	A	A	A	A	A	A	A	A	A	A	X	X	B	A	A	X	A	B	A	A 140°
Ammonium Dichromate $(NH_4)_2Cr_2O_7$		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	A		A 140°
Ammonium Hydroxide (Aqua Ammonia) NH_4OH	A	B	B	A		B	A	A	A	A	30% A	30% B	50% A	80% A	A	B	A	C	A	A 140°
Ammonium Metaphosphate		A	A	A		A		A			90% B	B	B	A	A		A			A 140°
Ammonium Nitrite NH_4NO_2		A	A					A	A	A					70% A		A			

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

	ELASTOMERS										METAL PARTS				PLASTICS					
CHEMICAL Formula	RUPPLON™ (Polyurethane)	NEOPRENE	BUNA-N	E.P.D.M.	HYTREL®	FLUROCARBON (Viton®)	BLUE GYLON®	PTFE,PFA	ENVELON®	SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	WR-C (Hastelloy Equiv.)	UNFILLED POLYPROPYLENE	ACETAL(Delrin®)	KYNAR® (PVDF)	NYLON	RYTON®	UHMW POLYETHYLENE
Ammonium Oxalate $(NH_4OOC)_2$		A	A							A			A	A						A 140°
Ammonium Persulfate $(NH_4)_2S_2O_8$	X	A	C	B		A		A		A	C	X	A		A		A	X		A 140°
Ammonium Phosphate, Monobasic $(NH_4)H_2PO_4$		A	A	A	B	A	A	A	A	A	X	X	B	5% A	A		A			A 140°
Ammonium Phosphate, Di-Basic $(NH_4)_2HPO_4$		A	A			A	A	A	A	A	B		A	A	A	B	A	C	A	
Ammonium Phosphate, Tri-Basic $(NH_4)_3PO_4 \cdot 3H_2O$		A	A			A	A	A	A	A	X		B	B	A		A			
Ammonium Sulfate $(NH_4)_2SO_4$	A	A	A	A	C	A	A	A	A	A	X	B	80% A 212°	40% B	A	B	A	B	A	A 120°
Ammonium Sulfide $(NH_4)_2S$		A	A			A		A			B		B	10% A						A 140°
Ammonium Sulfite $(NH_4)_2SO_3 \cdot H_2O$			A			A		A			C	X	B	A 212°	A	X		A		
Ammonium Thiocyanate NH_4SCN		A	A	A		A		A			C	C	50% A	50% A						A 140°
Ammonium Thiosulfate $(NH_4)_2S_2O_3$		A	A	A		A		A		A	40% A	X	10% A							
Amyl Acetate (Banana Oil) $CH_3CO_2C_5H_{11}$	X	X	X	A	C	X	A	A	A	B	A	B	A	B	X	X	A 120°	C	A	B
Amyl Alcohol (Pentyl Alcohol) $CH_3(CH_2)_4OH$	X	A	B	A	A	A	A	A	A	B	A	A	A	B	A		A			A 140°
n-Amyl Amine (1-Aminopentane) $CH_3(CH_2)_4NH_2$		X	C	X		X		A												
Amyl Borate $C_5H_{11}BO_3$		B	A			A		A		B										
Amyl Chloride (Chloropentane) $CH_3(CH_2)_4Cl$		X	X	X		A		A		C	X	A	A	B	X	A	A	C		C
Amyl Chloronaphthalene		X	B			A		A		C										
Amyl Naphthalene $C_{15}H_{18}$		X	X	X		A		A		C										
Amyl Phenol $C_6H_4(OH)C_5H_{11}$			X			A		A			A	A	A	A						
Aniline (Aniline Oil) (Amino Benzene) $C_6H_5NH_2$	X	X	X	C	X	B	A	A	A	B	B	A	A	B	A	A	A	A	A	B 122°
Aniline Dyes	X	C	C	C		B	A	A	A	B	B	C	B							
Aniline Hydrochloride $C_6H_5NH_2 \cdot HCl$		X	C			B		A		A	X	X	X		X		A	X		C 140°
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							

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	RUPPLON™ (Polyurethane)	NEOPRENE	BUNA-N	E.P.D.M.	HYTREL®	FLUROCARBON (Viton®)	BLUE GYLON®	PTFE,PFA	ENVELON®	SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	WR-C (Hastelloy Equiv.)	UNFILLED POLYPROPYLENE	ACETAL(Delrin®)	KYNAR® (PVDF)	NYLON	RYTON®	UHMW POLYETHYLENE
Anisole (Methylphenyl Ether) $C_6H_5OCH_3$		X				X		A			B	B	B	B						C 140°
Ansul Ether		X	C			X		A		X										
Anthraquinone $C_{14}H_8O_2$								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						A 140°
Antimony Trichloride $SbCl_3$			B	A		A		A			B	A	A	B	A		A	X		A
Aqua Regia (Nitric & Hydrochloric Acid)	X	X	X	X		B	X	A	A	X	X	X	X	C	C	X	A	X	X	B
Aroclor® PCB mixtures		X	C	X		A		A			A	B	A	90% A	X			A		
Aromatic Hydrocarbons C_6H_5R		X	X		C	A		A		C	A	A	A							
Aromatic Solvents (Benzene Etc.)	X	X	C	X		B		A			A	B	A	B						
Arsenic Acid AsH_3O_4	X	A	B	A		A		A		A	A	X	B	B	A		A	X	A	
Arsenic Trichloride (Arsenic Butter) $AsCl_3$		A	C	X		X		A		B	B	B	X	B						A 140°
Ascorbic Acid $C_6H_8O_6$						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	A	A	B	A	B	A		A	B	A	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						

R ATING KE Y: (A) E xcellent (B) Good (C) Fair to Poor (X) Not R ecommended No Data Available.

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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 $BaCO_3$		A	A	A		A		A		A	X	B	B	B	A		A	A	A	A 140°
Barium Chloride Dihydrate $BaCl_2 \cdot 2H_2O$	A	A	A	A		A	A	A	A		50% B	B	B 212°	B		A	A	A	B	A
Barium Cyanide $Ba(CN)_2$		A	C		X	A				A			A		X			A		
Barium Hydroxide (Barium Hydrate) $Ba(OH)_2$	A	A	A	A	B	A	A	A	A	A	X	B	50% A 122°	B	A		A	A	A	A 140°
Barium Nitrate $Ba(NO_3)_2$		A	A					A		A	B	A	A	A	A	B	A	A		
Barium Sulfate (Blanc Fixe) $BaSO_4$	A	A	A	A	X	A		A		A	B	B	B		A	B	A	A	A	A
Barium Sulfide BaS	A	A	A	A		A	A	A	A	A	X		B	A	A		A	A	A	A 120°
Beef Extract		A	A					A		A	B	A	A	A	A	B	A	A		
Beer Water, carbonate	X	A	C	A	B	A	A	A	A	A	A	X	A	A	A	A	A 175°	A	A	A 140°
Beet Sugar Liquors (Sucrose)	X	A	A	A		A	A	A		A	A	B	A		A	B	A	A		
Benzaldehyde C_6H_5CHO	X	X	X	B	B	X		A	A	B	A	A	A	A	X		A	X	A	C
Benzene (Benzol) C_6H_6	X	X	X	X	70% C	B	A	A	A	C	B	B	A 167°	B	X	A	B	A	A	C
Benzene Sulfonic Acid $C_6H_5SO_3H$		A	C	C		A		A			C	A	A	90% A	X		B 100°	X	A	A
Benzoic Acid (Benzene Carboxylic Acid) C_6H_5COOH		B	X	B		A		A			B	X	B	70% A	X	B	A	X	A	A 140°
Benzoyl Chloride C_6H_5COCl	X	X	X	X		B		A	A		X	A	B	B			A			
Benzyl Acetate $CH_3CO_2 \cdot H_2C_6H_5$			X			X		A			A	A	A	B						
Benzyl Alcohol $C_6H_5CH_2OH$		C	X	C		A		A	A		A	A	A	B	A		A	X	A	A 140°
Benzyl Benzoate $C_6H_5CO_2CH_2C_6H_5$		X	X	B		A		A		C	A	B	B	B						

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CHEMICAL Formula	ELASTOMERS										METAL PARTS				PLASTICS					
	RUPPLON™ (Polyurethane)	NEOPRENE	BUNA-N	E.P.D.M.	HYTREL®	FLUROCARBON (Viton®)	BLUE GYLON®	PTFE,PFA	ENVELON®	SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	WR-C (Hastelloy Equiv.)	UNFILLED POLYPROPYLENE	ACETAL(Delrin®)	KYNAR® (PVDF)	NYLON	RYTON®	UHMW POLYETHYLENE
Benzyl Chloride (Chlorotoluene) $C_6H_5CH_2Cl$	X	X	X	X		A		A		C	X	A	B	A	X	A	A	A	A	
Benzyl Dichloride (Benzal Chloride) $C_6H_5CHCl_2$			X					A			X	B	A	B						
Biphenyl (Diphenyl) $C_6H_5C_6H_5$		X	X	X		A		A			A	A								
Bismuth Subcarbonate (Bismuth Carbonate) $(BiO)_2CO_3$		A	A	A		A		A					10% B							A 140°
Black Sulfate Liquor	X	A	B	A	B	A	A	A	A		C	B	A	B						A 140°
Blast Furnace Gas CO,H_2,CH_4,CO_2,N_2		A	C		B	A		A	A	A										
Bleach Solutions Water, chlorine, oxygen		X	X	A	C	B		A	A	B	X		30% B	80% A 125°	X					A 140°
Borax (Sodium Borate) $B_4Na_2O_7$	A	A	B	A	A	A	A	A	A	A	B	B	A	A	A	B	A	A	A	A 140°
Bordeaux Mixture Copper sulfate salts		A	A	A	B	B		A		A			A	A						
Boric Acid (Boracic Acid) H_3BO_3	A	A	A	A	A	A	A	A	A	A	A	X	A	A 167°	A	C	A	B	A	A 120°
Brake Fluid (Non-Petroleum Base) Silicones or glycols		A	X	A				A		A	A	A	A	A	X			B		
Brewery Slop		A	A			A		A		A		A	A							
Brine (Sodium Chloride) Salt water	A	B	A	A	B	A		A	A			X	A	A	A		A			A 140°
Bromine · Anhydrous Br_2	X	X	X	C	X	A	X	A		C	B	C	X	A	X		A 150°			X
Bromine Trifluoride BrF_3	X	X	X	X		X	X	A	C	C	A		B		X					
Bromine Water		B	X	X		B		A		B	X	X	X	A	X		A			C
Bromobenzene C_6H_5Br	X	X	X	X		B		A		X	X	B	A	B	X					
Bromochloromethane $BrCH_2Cl$		X	X	B		C		A			X	B	B	B						
Bromotoluene $C_6H_4BrCH_3$			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 C_4H_6	X	C	X	C		C		A	A	C	A	A	A		X		A	A	A	C
Butane (LPG) (Butyl Hydride) C_4H_{10}	B	B	A	X	A	A	A	A	A	C	A	A	A	A	X	B	A	A	A	A 140°

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

CHEMICAL Formula	ELASTOMERS										METAL PARTS				PLASTICS					
	RUPPLON™ (Polyurethane)	NEOPRENE	BUNA-N	E.P.D.M.	HYTREL®	FLUROCARBON (Viton®)	BLUE GYLON®	PTFE,PFA	ENVELON®	SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	WR-C (Hastelloy Equiv.)	UNFILLED POLYPROPYLENE	ACETAL(Delrin®)	KYNAR® (PVDF)	NYLON	RYTON®	UHMW POLYETHYLENE
Butter Fats	A	C	A	A	B	A		A		B	A	X	A							A 140°
Buttermilk Fats, water		A	A			A				A	A		A		A		A	B		
Butyl Acetate $CH_3CO_2(CH_2)_3CH_3$	C	X	X	B	C	X	A	A	A	B	A	A	A	A	X	B	A 100°	A	A	B
n-Butyl Acetate $CH_3CO_2(CH_2)_3CH_3$		X	X	X		X		A		A	A	A	A	A						
Butyl Acetyl Ricinoleate $C_{24}H_{44}O_5$		X	C	C		B		A		B				A						
Butyl Acrylate $CH_2CHCO_2C_4H_9$		X	X	X		X		A		C							C			
Butyl Alcohol (Butanol) $CH_3(CH_2)_3OH$	X	A	A	B	B	A	A	A	A	A	A	B	A	A	A		A			
Butyl Amine (Aminobutane) $CH_3(CH_2)_2CH_2NH_2$	X	X	B	X		X		A	A	A	A	A	A		X	C	B 70°	A	A	
Butyl Benzoate $C_6H_5COO \cdot (CH_2)_3CH_3$		X		B		A		A		C	B	B	B	B						
Butyl Bromide $CH_3(CH_2)_2CH_2Br$			X			B		A									A			
Butyl Butyrate $CH_3(CH_2)_2 \cdot CH_2\ CO_2C_4H_9$			X			X		A			A	A	A	A						
Butyl Carbitol® $CH_3(CH_2)_3OCH_2\ CH_2OCH_2CH_2OH$		B	A	A		A		A		B										
Butyl Cellosolve® $HOCH_2CH_2OC_4H_9$		C	B			C		A		A							B			
Butyl Chloride (Chlorobutane) $CH_3(CH_2)_3CL$			X			A		A			X	B	B	B	X		A	A		
Butyl Ether (Dibutyl Ether) $(CH_3(CH_2)_3)_2O$		B	A			C		A			A	B	A	A	X		A 100°	A	A	
Butyl Oleate $C_{22}H_{42}O_2$		X		C		A		A		C										
Butyl Stearate $CH_3(CH_2)_{16} \cdot CO_2(CH_2)_3CH_3$		X	A	C		B		A		C	B	B	B	B			A			
Butylene (Butene) C_4H_8	X	X	B	X		B		A		X	A		A		X		A	B	A	
Butyraldehyde $CH_3(CH_2)_2CHO$	C	X	X	C		X		A		C	A	A	A	A						C
Butyric Acid $CH_3(CH_2)_2CO_2H$		X	C	C	B	C		A		A	A	X	B	A	A	X	A	C	A	B
Butyronitrile $CH_3CH_2CH_2CN$		X	X	A				A												
Calcium Acetate Hydrate $Ca(CH_3COO)_2 \cdot H_2O$		C	B	A		X		A			C	C	B	B						
Calcium Bisulfite $Ca(HSO_3)_2$	A	A	A	X	X	A	A	A	A		X	X	90% A	A		A	X	A	B	A

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CHEMICAL Formula	ELASTOMERS										METAL PARTS				PLASTICS					
	RUPPLON™ (Polyurethane)	NEOPRENE	BUNA-N	E.P.D.M.	HYTREL®	FLUROCARBON (Viton®)	BLUE GYLON®	PTFE,PFA	ENVELON®	SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	WR-C (Hastelloy Equiv.)	UNFILLED POLYPROPYLENE	ACETAL(Delrin®)	KYNAR® (PVDF)	NYLON	RYTON®	UHMW POLYETHYLENE
Calcium Carbonate (Chalk) $CaCO_3$		A	A	A		A		A		A	C	B	B	B	A	A	A	A		A
Calcium Chlorate $Ca(ClO_3)_2$		A	A	A		A		A			30% B	B	30% B	70% B	A		A			A 140°
Calcium Chloride (Brine) $CaCl_2 \cdot 6H_2O$	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	X	A	B	A	A 140°
Calcium Hydrosulfide (Calcium Sulfhydrate) $Ca(HS)_2 \cdot 6H_2$		A				A		A												A 140°
Calcium Hydroxide (Slaked Lime) $Ca(OH)_2$	A	A	A	A	B	A	A	A	A	A	X	B	50% B	50% A	A	X	A	B		
Calcium Hypochlorite 20% (Calcium Oxichloride) $Ca(ClO)_2$	X	X	C	B	5% A	B	A	A	A	A	X	X	B	B 125°	A	A	A	A	A	A 120°
Calcium Nitrate $Ca(NO_3)_2$	A	A	A	A		A		A	A	A	40% B 212°	30% B 212°	50% B 212°	10% B	A	X	A	A	A	A 140°
Calcium Oxide (Unslaked Lime) CaO		A	A	A	B			A			A	A	A	A						A 140°
Calcium Silicate Ca_2SiO_4			A			A		A			A	B	A	A						
Calcium Sulfate (Gypsum) $CaSO_4$	B	A	A	A		A		A			A	C	10% B	10% A	A	A	X	A	X	A 140°
Calcium Sulfide CaS	A	B	A	A		A		A		A	20% A	B	B	A	A 120°		A			
Calcium Sulfite $CaSO_3 \cdot 2H_2O$			A			A		A			10% B	B	10% A							
Calgon® $(NaPO_3)_6$		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		A		A			
Capryl Alcohol (Octanol) $CH_3(CH_2)_6CH_2OH$	X	B	A	C		B		A			A	A	A	A						
Caprylic Acid (Octanoic Acid) $CH_3(CH_2)_6$ COOH			C					A			A		A	A			A			
Carbamate H_2NCO_2R	X	C	C	C		A		A		A										
Carbitol® $CH_3CH_2OCH_2CH_2$ OCH_2CH_2OH	X	C	B	C		C		A		B	A	A	A	A						
Carbolic Acid (see Phenol) C_6H_5OH	X	C	X	C		A		A	A	A	B	A	B	A	C	X	A 150°	X	A	A
Carbon Dioxide (Carbonic Acid Gas) CO_2	A	A	A	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C

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CHEMICAL Formula	ELASTOMERS										METAL PARTS				PLASTICS					
	RUPPLON™ (Polyurethane)	NEOPRENE	BUNA-N	E.P.D.M.	HYTREL®	FLUROCARBON (Viton®)	BLUE GYLON®	PTFE,PFA	ENVELON®	SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	WR-C (Hastelloy Equiv.)	UNFILLED POLYPROPYLENE	ACETAL(Delrin®)	KYNAR® (PVDF)	NYLON	RYTON®	UHMW POLYETHYLENE
Carbon Disulfide (Carbon Bisulfide) CS_2	C	X	X	X	C	A	A	A	A	X	A	B	90% A		X	B	A	B	A	X
Carbon Monoxide CO	A	A	C	C	A	C	X	A	A	A	A	A	A	A	A	B	A	A		A 140°
Carbon Tetrachloride (Tetrachloromethane) CCL_4	X	X	C	X	X	A	X	A	A	X	X	C	B	A	X	B	A	B	A	X
Carbonated Beverages CO_2/H_2O	A	A	A					A		A	C		A	A	A		A			
Carbonic Acid (liquid) H_2CO_3		A	B		C	A		A	A	A	A	X	B	A	A	A	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	A	A	B	A	B	A	A						A 140°
Catsup (Ketchup)		C	A			A		A		A	B	X	A	A	A					A 140°
Cellosolve® (Glycol Ethers) $HOCH_2CH_2OR$		C	C	C	X	B		A		C	A		A	A	A 100°	A	A	A	A	
Cellulose Acetate $C_8H_{12}O_5$		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 $CA(CIO)_2$	X	X	C	A	6% A	A		A		X		X	A							
Chlorinated Water		C	C		X	A		A			C		B	A	B	X	A	B	X	A
Chlorine, Dry CL_2		C	C		X	A		A	A	C	X	X			X	X	A	X	X	B
Chlorine, Wet Cl_2/H_2O	X	X	C	X	X	A	A	A	A	C	B	C	A	A	X	X	A	X	X	B
Chlorine, Anhydrous Liquid Cl_2		X	X			A		A		X	X	X	X	A	X		A			X
Chlorine Dioxide ClO_2		X	X	C		B	A	A	A	X	B		X	B	X		A			
Chlorine Trifluoride ClF_3	X	X	X	X		B	X	A	C	X	A		A		X			X		B
Chloroacetic Acid (Monochloroacetic Acid) $ClCH_2COOH$	X	C	X	B	X	C	A	A			X	X	X	A	A	X	A	X	A	
Chloroacetone (Monochloroacetone) $ClCH_2COCH_3$		C	X	A		C		A		C	X	B	B	B	X					
Chlorobenzene (Monochlorobenzene) C_6H_5Cl	X	X	X	X	X	A		A		C	X	B	B	B	X	A	A 150°	B	A	X

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	RUPPLON™ (Polyurethane)	NEOPRENE	BUNA-N	E.P.D.M.	HYTREL®	FLUROCARBON (Viton®)	BLUE GYLON®	PTFE,PFA	ENVELON®	SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	WR-C (Hastelloy Equiv.)	UNFILLED POLYPROPYLENE	ACETAL(Delrin®)	KYNAR® (PVDF)	NYLON	RYTON®	UHMW POLYETHYLENE
Chlorobutadiene (Chloroprene) C_4H_5CL		X	X	X		A		A		C	X	B	B	B	X					
Chlorobromomethane $ClCH_2Br$		X	X			A		A		X	X	B	B		X					X
Chloroform $CHCl_3$	X	X	X	X	X	A		A	A	X	X	A	A	A	X	B	A	X	A	
1-Chloronaphthalene $C_{10}H_7Cl$		X	X	X		C		A		X	X	B	B	A	X					
Chlorosulfonic Acid HSO_3CL	X	X	X	X	X	X	A	A		A	B	B	B	A	X	X	X	X	X	
o-Chlorophenol C_6H_5ClO		X	X	X		B		A			B	B	B	B		B	A	X	A	
Chlorothene® (Chlorinated Solvents) CH_3CCL_3		X	X			C	A	A	A		X	X	A	A						
Chlorotrifluoroethylene $C_2H_2ClF_3$			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% H_2CrO_4		X	X	A	X	A		A	A	X	10% B	B	X	B	X	X	A 120°	X	A	A 140°
Chromic Acid -- 25%-50% H_2CrO_4	X	X	X	C	X	A		A	A	X	X	B	X	B	A	X	A 120°	X	A	A 122°
Chromic Acid -- Over 50% H_2CrO_4	X	X	X	C	X	A		A	A	X	X	B	X	B	X	X	A 120°	X	A	A 122°
Cider (Apple Juice) Sucrose, water		A	A		B	A		A		A	B	X	A	A						A 140°
Cinnamon Oil Cinnamic acid esters		C						A		C		X	A							
Citric Acid $C_6H_8O_7 \cdot H_2O$	A	A	B	A	A	A	A	A	A	A	B	X	30% A	A	B	B		X 250°	A	A 140°
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) $C_{10}H_{12}O_2$		C						A		C		X	A							A
Cobalt Chloride $CoCl_2 \cdot 6H_2O$	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							A 140°
Coffee Fatty oils, acids, cellulose, water		A	A					A		A	A		A	A	A					A 140°

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	RUPPLON™ (Polyurethane)	NEOPRENE	BUNA-N	E.P.D.M.	HYTREL®	FLUROCARBON (Viton®)	BLUE GYLON®	PTFE,PFA	ENVELON®	SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	WR-C (Hastelloy Equiv.)	UNFILLED POLYPROPYLENE	ACETAL(Delrin®)	KYNAR® (PVDF)	NYLON	RYTON®	UHMW POLYETHYLENE
Coke Oven Gas H_2(53%),CH_4(26%) N_2(11%),CO(7%)& hydrocarbons (3%)		C	C			A		A	A	B							A			
Copper Acetate $Cu(C_2H_3O_2)_2 \cdot CuO \cdot 6H_2O$		C	B	A				A		A	X	90% A	10% B	10% B			A			
Copper Chloride $CuCl_2 \cdot 2H_2O$	A	A	A	A	A	A	A	A	A	A	X	X	X	40% B	A		A			A 140°
Copper Cyanide CuCN	A	A	A	A		A		A		A	X	A	10% A	A 170°	A		A	A	A	A 140°
Copper Fluoroborate			A	B			A				A	X	X	X	B					
Copper Nitrate Hexahydrate $Cu(NO_3)_2 \cdot 6H_2O$		A	A	A		A		A			X	X	A	B	A	A	A	X	A	
Copper Sulfate (Blue Copperas) $CuSO_4 \cdot 5H_2O$	A	A	A	A	A	A	A	A	A	5% A	X	X	10% A	A	A	A	A	B	A	A
Copper Sulfide CuS			A			A		A												
Corn Oil (Maize oil) Glycerides of fatty acids	A	C	A	C	A	A	A	A	A	B	B	C	B		A		A	A		A 140°
Cotton Seed Oil		A	C	A	A	A	A	A	A	A	B	A	C	A		A	B	A	A	A
Cream			C	A			A		A	A	A		X	A		A				
Creosote, Coal-Tar (Tar Oil) Hydrocarbon mixture	B	C	A	X	X	A	A	A	A	B	B	B	B	B	X	X		X		X
Creosote, Wood-Tar Mixture of phenols		B	A	X	X	A	A	A	A				B		X	X		X		X
Cresylic Acid (Cresol) $C_8H_{10}O_2$	X	X	C	X		A		A	A	B	B	C	A	B	X	X	A 150°	X		A
Crotonaldehyde $CH_3CHCHCHO$		A	X			A		A			A	A	A	A						
Cumeme (Isopropylbenzene) $C_6H_5CH(CH_3)_2$		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						
Cyclohexane C_6H_{12}	C	X	B	X	A	A		A	A	C	B	B	B	B	X	A	A	A	A	A
Cyclohexanol $C_6H_{11}OH$		A	B	X		A		A		B	C	B	A	A	B	A	A 150°	A	A	A 140°
Cyclohexanone $C_6H_{10}O$		X	X	C		X		A	A	C	B	B	B	B	X	A	A	A	A	B
Cyclopentane C_5H_{10}		A	B	X		A		A			B	B	B	B						
Cymene (Isopropyltoluene) $C_{10}H_{14}$		X	C	X		A		A												

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	RUPPLON™ (Polyurethane)	NEOPRENE	BUNA-N	E.P.D.M.	HYTREL®	FLUROCARBON (Viton®)	BLUE GYLON®	PTFE,PFA	ENVELON®	SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	WR-C (Hastelloy Equiv.)	UNFILLED POLYPROPYLENE	ACETAL(Delrin®)	KYNAR® (PVDF)	NYLON	RYTON®	UHMW POLYETHYLENE
Decahydronaphthalene (Decalin®) $C_{10}H_{18}$	X	X	X	X		A		A												
Decanal $CH_3(CH_2)_8CHO$			X	X		X		A												
Decane $CH_3(CH_2)_8CH_3$	C	X	B	C		A		A		C					A 70°		A			
Decyl Alcohol (Decanol) $C_{10}H_{21}OH$		X	A			B		A												
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		A	A	A 140°
Developing Fluids & Solutions	X	A	A	C	X	A		A		A		X	A	A						A 140°
Dextrose $C_6H_{12}O_6$	A	B	B	A	B 140°	A		A			A	X	A	A	A		A			A 140°
Diacetone Alcohol (Diacetone) $(CH_3)_2COHCH_2 \cdot COCH_3$	C	X	X	B	C	X		A		B	A	A	A	A	X	A	C	A		
Dibenzyl Ether $(C_6H_5CH_2)_2O$	C	X	X	C		C		A		C	B	B	B	B			C			
Dibenzyl Sebecate $C_{24}H_{30}O_4$	X	X	X	C	A	B		A	A	C										
Dibutyl Amine $(C_4H_9)_2NH$		X	C	X		X		A		B		A	A	A	X		B 70°			
Dibutyl Phthalate (DBP) $C_6H_4(CO_2C_4H_9)_2$	C	X	X	A	A	B		A	A	B	A	A	A	A	X		X	A	A	A
Dibutyl Sebecate (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°		X	
Dichlorobutane $C_4H_8Cl_2$			X			A		A			X	B	B							
Dichloroethyl Ether $[ClCH_2CH_2]_2O$		X						A			B									
Dichloro Isopropyl Ether $C_6H_{12}OCl_2$	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	A	C	A	A	A	A	B		A			A 122°
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			A		

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

CHEMICAL Formula	ELASTOMERS										METAL PARTS				PLASTICS					
	RUPPLON™ (Polyurethane)	NEOPRENE	BUNA-N	E.P.D.M.	HYTREL®	FLUROCARBON (Viton®)	BLUE GYLON®	PTFE,PFA	ENVELON®	SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	WR-C (Hastelloy Equiv.)	UNFILLED POLYPROPYLENE	ACETAL(Delrin®)	KYNAR® (PVDF)	NYLON	RYTON®	UHMW POLYETHYLENE
Diethyl Amine $(CH_3CH_2)_2NH$	C	C	C	C		X		A			B	B	A	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			A								
Diethyl Ether (Ether) $(CH_3CH_2)_2O$	A	C	B	X	C	X		A	A	B	B	A	A	A	X	A	A	B	A	X
Diethyl Phthalate (DEP) $C_6H_4(CO_2C_2H_5)_2$			X			C		A			A	A	A	A						
Diethyl Sebecate $C_{14}H_{26}O_4$		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							
Diethylene Glycol (DEG) $HOCH_2CH_2OCH_2 \cdot CH_2OH$	X	A	A	A	A	A		A		A	A	A	A	A	A			A		A 140°
Diethylene Triamine $(NH_2C_2H_4)_2NH$			B					A			A	A	A	A						
Diisobutyl Ketone $C_4H_9COC_4H_9$		X	X	B		X		A			A	A	A	A						
Diisobutylene $[HC=C(CH_3)_2]_2$		C	B			C		A		C					A		A	A	A	
Diisodecyl Adipate (DIDA) $C_{26}H_{50}O_4$			X			C		A												
Diisodecyl Phthalate (DIDP) $C_{28}H_{47}O_4$		X	X	A		C		A												
Diisooctyl Adipate (DIOA) $C_{22}H_{42}O_4$			X			C		A			A	A	A	A						
Diisooctyl Phthalate (DIOP) $C_{24}H_{39}O_4$			X			C		A												
Diisooctyl Sebecate (DIOS) $C_{26}H_{46}O_4$				B		A		A												
Diisopropyl Amine $[(CH_3)_2CH]_2NH$			B					A												
Diisopropyl Benzene $C_6H_4 \cdot [CH(CH_3)_2]_2$		X	X	X		A		A		C										
Diisopropyl Ketone $[(CH_3)_2CH]_2CO$		X	X	A		X		A		C			A							
N,N-Dimethylaniline $C_6H_5N(CH_3)_2$		X	X	C		X		A		B	B	B	B		X		A	A	A	
Dimethyl Ether CH_3OCH_3		B	A			A		A	A		B	B	B	B						
N,N-Dimethyl Formamide (DMF) $HCON(CH_3)_2$		X	C		C	X		A	A	A	A		A	A	A 120°	B	A 120°	A	A	
Dimethyl Phthalate $C_6H_4(CO_2CH_3)_2$		X	X	C	A	C		A		A							A 70°	B	A	

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CHEMICAL Formula	ELASTOMERS										METAL PARTS				PLASTICS					
	RUPPLON™ (Polyurethane)	NEOPRENE	BUNA-N	E.P.D.M.	HYTREL®	FLUROCARBON (Viton®)	BLUE GYLON®	PTFE,PFA	ENVELON®	SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	WR-C (Hastelloy Equiv.)	UNFILLED POLYPROPYLENE	ACETAL(Delrin®)	KYNAR® (PVDF)	NYLON	RYTON®	UHMW POLYETHYLENE
Dimethyl Sulfate $(CH_3)_2SO_4$			X			X		A				A								
Dimethyl Sulfide $(CH_3)_2$			X					A			A	A	A	A						
Dinitrotoluene (DNT)$CH_3C_6H_3(NO_2)_2$		X	X	X		C		A		B			A							
Dioctyl Phthalate (DOP) $C_{24}H_{38}O_4$	X	X	X	B	A	B		A		C	A	A	A	A						A
Dioctyl Sebecate $C_{26}H_{50}O_4$	C	X	X	C		C		A		C	A	A	A	A						
Dioxolanes (Dioxolans) Glycol ethers		X	X	B		C		A		C										
Dipentene (Limonene) $C_{10}H_{16}$		X	C	X		A		A		C	A	A	A	A						
Diphenyl Oxides (Phenyl Ether) $C_6H_5OC_6H_5$	C	X	X	C		A		A		C	B	A	A	A			A			
Dipropylamine $(CH_3CH_2CH_2)_2$ NH			B					A												
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) $[(CH_3)_2SiO]_2$	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				A		
Drycleaning Fluids Chlorinated hydrocarbons		X	C			A		A		X	A	A	A		X					
Dyes			C				A				B	B		A						
Epichlorohydrin C_3H_5ClO		X	X	B	X	X		A	A	B	X	A	A	A	A	A	X	A	A	
Epsom Salts (Magnesium Sulfate) $MgSO_4 \cdot 7H2O$		A	A			A		A		A	A		A	B	A		A			
Ethane C_2H_6	C	C	A	X		A		A	A	C	A	A	A	A	C	A		A		
Ethanolamine (Aminoethanol) $H_2NCH_2 \cdot CH_2OH$	X	C	B	B		X		A		A	B	A	A		X	X	C	A	A	A 140°
Ethyl Acetate $CH_3COOC \cdot H_2CH_3$	X	X	X	B	C	X	A	A	A	C	A	A	A	A	C	A	A	A	A	B 122°

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CHEMICAL Formula	ELASTOMERS										METAL PARTS				PLASTICS					
	RUPPLON™ (Polyurethane)	NEOPRENE	BUNA-N	E.P.D.M.	HYTREL®	FLUROCARBON (Viton®)	BLUE GYLON®	PTFE,PFA	ENVELON®	SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	WR-C (Hastelloy Equiv.)	UNFILLED POLYPROPYLENE	ACETAL(Delrin®)	KYNAR® (PVDF)	NYLON	RYTON®	UHMW POLYETHYLENE
Ethyl Acetoacetate (Acetoacetic Ester) $CH_3COCH_2 \cdot COOCH_2CH_3$	C	X	X	C		X		A		C	A	A	A	A			70% A			
Ethyl Acrylate $CH_2CHCO_2 \cdot CH_2CH_3$	X	X	X	C		X		A		C	A	A	A	A	B		70% B			
Ethyl Alcohol (Ethanol) CH_3CH_2OH	X	A	A		X	B		A	A		B	B	A	A	A 100°		A	X	A	A 140°
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			A
Ethyl Benzoate $C_6H_5CO_2CH_2CH_3$		X	X	C		A		A		C	A	A	A	A	B			X		
Ethyl Bromide (Bromoethane) CH_3CH_2Br		B	X	B				A		X	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												
Ethyl Butyraldehyde C_6HO_{12}			X			X		A												
Ethyl Butyrate $CH_3CH_2CH_2\ C^{140°}\ CO_2C_2H_5$		X	X	X		C		A			B	A	A	A	B			A		
Ethyl Caprylate $CH_3(CH_2)_6 \cdot CO_2C_2H_5$			X	X	X				A											
Ethyl Cellosolve® $C_2H_5O(CH_2)_2OH$		C	C	B		X		A		B										
Ethyl Cellulose (Ethocel®)	B	B	B	B	B	C	A	A	A	A	B	A	B	B	C			B		
Ethyl Chloride (Chloroethane) C_2H_5Cl	C	C	A	A	X	A	A	A	A	C	X	B	A	B	X	A	A	B	A	X
Ethyl Chlorocarbonate (Ethyl Chloroformate) $ClCO_2C_2H_5$		C				A		A		A										
Ethyl Cyanide (Propionitrile) C_2H_5CN		B	X	A		X		A												
Ethyl Formate $HCOOCH_2\ CH_3$		B	X	C		A		A		B	B	A	B	B						C
Ethylhexyl Acetate $CH_3CO_2CH_2 \cdot CH(C_2H_5)C_4H_9$			X			X		A												
Ethylhexyl Alcohol (Ethylhexanol) $C_8H_{17}OH$			A			B		A			A	A	A	A						

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CHEMICAL Formula	ELASTOMERS										METAL PARTS				PLASTICS					
	RUPPLON™ (Polyurethane)	NEOPRENE	BUNA-N	E.P.D.M.	HYTREL®	FLUROCARBON (Viton®)	BLUE GYLON®	PTFE,PFA	ENVELON®	SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	WR-C (Hastelloy Equiv.)	UNFILLED POLYPROPYLENE	ACETAL(Delrin®)	KYNAR® (PVDF)	NYLON	RYTON®	UHMW POLYETHYLENE
Ethyl Iodide CH_3CH_2I																				
Ethyl Isobutyrate $(CH_3)_2 \cdot CHCOOCH_2CH_3$		X	X	X				A												
Ethyl Mercaptan (Ethanethiol) CH_3CH_2SH		C	X	X		B		A		C	B	A	B	B						
Ethyl Oxalate $C_2H_5O_2C \cdot CO_2C_2H_5$	A	X	X	A		B		A		B										
Ethyl Pentachlorobenzene $C_2H_5C_6Cl_5$		X	X			A		A		X	X				X					
Ethyl Propionate $CH_3CH_2 \cdot COOCH_2CH_3$		X	X	X				A			A	A	A	A						
Ethyl Silicate $Si(OCH_2CH_3)_4$		A	A	A		A		A		B	B	A	A	A						
Ethyl Sulfate $C_2H_5OSO_2OH$			A			A		A		B			X					A		
Ethylene (Ethene) C_2H_4		A	B	C		A		A	A	C	A	A	A							
Ethylene Chlorohydrin $ClCH_2CH_2OH$	X	B	X	A	X	B		A		C		B	A	A	X		A 70°			
Ethylene Diamine $(CH_2)_2(NH_2)_2$		A	B	A		X		A		A	C	A	A	A	A	A	B	B	A	A
Ethylene Dibromide (Ethylene Bromide) $Br(CH_2)_2Br$		X	X	C		B		A	A		X	X	B	B	X		A			
Ethylene Dichloride (Dutch Oil) $Cl(CH_2)_2Cl$	X	X	X	X	X	B		A	A	X	X	B	B	B	X	B	A	B	A	X
Ethylene Glycol (Ethylene Alcohol) (Glycol) $(CH_2OH)_2$	B	A	A	A	A	A 70°	A	A	A	A	A	A	A	A	A 120°	A	A	B	A	A 140°
Ethylene Glycol Monobutyl Ether (Butyl Cellosolve®) $C_4H_9OCH_2CH_2OH$	X	X	B	B		C		A			A	A	A	A						
Ethylene Glycol Monoethyl Ether Acetate (Cellosolve Acetate®) $C_2H_5O(CH_2)_2 \cdot O_2CCH_3$	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	A	B	A	A	C		A	A	X	A
Ethylene Trichloride (Trichloroethene) $ClCHCCl_2$		X	X	X		A		A		X	X	A	A		X					
Ethylidene 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	A		A 140°

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CHEMICAL Formula	ELASTOMERS										METAL PARTS				PLASTICS					
	RUPPLON™ (Polyurethane)	NEOPRENE	BUNA-N	E.P.D.M.	HYTREL®	FLUROCARBON (Viton®)	BLUE GYLON®	PTFE,PFA	ENVELON®	SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	WR-C (Hastelloy Equiv.)	UNFILLED POLYPROPYLENE	ACETAL(Delrin®)	KYNAR® (PVDF)	NYLON	RYTON®	UHMW POLYETHYLENE
Ferric Chloride $FeCl_3$	A	A	A	A	X	A	A	A	A	A	X	X	X	10% A	A	A	A	X	A	A 140°
Ferric Hydroxide $FeHO_2$			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	A	X	A	A 140°
Ferric Sulfate $Fe_2(SO_4)_3$		A	A	A		A	A	A	A	A	C	X	B	30% A	A	B	A	X	A	A 140°
Ferrous Chloride $FeCl_2$		A	A	A	X	A		A		A	X	X	30% B	50% B	A	B	A	X	A	A
Ferrous Sulfate $FeSO_4$		A	A	A	A	A		A		A	10% A	C	B	30% A	A	B	A	C	A	A 140°
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	X	A	A 140°
Fluorine (Liquid) F_2		C	X	C	X	B	X	A	C	X	A		A		X		A 70°	X		A
Fluorobenzene FC_6H_5		X	X	X		A		A		C					X					
Fluorolube (Fluorocarbon Oils) $F_xC_yH_z$		A	C	A		B		A		X	A	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	X	A	A
Formaldehyde (Formalin) HCHO	X	C	B	A	40% C	A	A	A	A	B	A	C	90% A	70% A	A	A	A 120°	C	A	A 140°
Formamide $HCONH_2$		A	A	A		X		A			A	B	B	B						
Formic Acid HCOOH	X	B	C	B	C	C	A	A	A	A	X	X	C	A	A 70°	X	A	X	A	A 140°
Freon 11 (Trichlorofluoromethane) CCl_3F	X	C	C	X	A	B		A	A	X	B	A	A		B		A	X	A	
Freon 12 (Dichlorodifluoromethane) Cl_2CF_2	A	B	B	B	A	B		A	A	X	A	A	A				A			
Freon 13 (Chlorotrifluoromethane) $ClCF_3$		A	A	A	C	A		A		X	A	A	A	A						
Freon 13B1(Bromotrifluoromethane) $BrCF_3$	A	A	A	A		A		A	A											
Freon 14 (Tetrafluoromethane) CF_4		X	X	B				A	A											
Freon 21 (Dichlorofluoromethane) $FCHCl_2$		B	X	X		X		A	A	X	A						A			
Freon 22 (Chlorodifluoromethane) $HCClF_2$	X	B	X	C	X	X		A	A	X	A	A	A	A			A			
Freon 113 (Trichlorotrifluoroethane) (TF) Cl_3CCF_3	C	A	B	X	A	B		A	A	X	B		A				A			

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CHEMICAL Formula	ELASTOMERS										METAL PARTS				PLASTICS					
	RUPPLON™ (Polyurethane)	NEOPRENE	BUNA-N	E.P.D.M.	HYTREL®	FLUROCARBON (Viton®)	BLUE GYLON®	PTFE,PFA	ENVELON®	SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	WR-C (Hastelloy Equiv.)	UNFILLED POLYPROPYLENE	ACETAL(Delrin®)	KYNAR® (PVDF)	NYLON	RYTON®	UHMW POLYETHYLENE
Freon 114 (Dichlorotetrafluoroethane) $C_2Cl_2F_4$	A	A	A	C	A	A		A	A	X	B		A				A			
Freon 114B2 (Dibromotetrafluoroethane) $C_2Br_2F_4$		A	B	X		B		A	A	X										
Freon 115 (Chloropentafluoroethane) C_2ClF_5		A	A	A		B		A	A	X	A									
Fruit Juices Water, sucrose		A	A	A	B	A		A	A	A	0% A	X	A	A	A		A	X	A	A 140°
Fuel Oils (ASTM #1 thru #9) Hydrocarbons	C	C	A	X	B	A	A	A	A	C	A	A	A	A	C	C	A	A	A	A
Fumaric Acid (Boletic Acid) HOOCCH = CHCOOH		B	C			A		A		A										
Furan (Furfuran) C_4H_4O		X	X	X	X	C		A		C					C		X		A	
Furfural (Ant Oil) $C_5H_4O_2$	X	B	X	B		C	A	A	A	C	A	B	20% A	B	X	B	B 120°	A	A	B
Furfuryl Alcohol $C_5H_6O_2$	X		X	B	B	X		A			A	A	A	A			B 100°			
Fusel Oil (Grain Oil) $(CH_3)_2 \cdot CHCH_2CH_2OH$	C	A	A	A		A		A												
Gallic Acid $C_6H_2(OH)_3 \cdot COOH$	X	C	B	B	X	A		A		B	20% A	X	B	B	A 70°		A 70°	B	A	A 140°
Gasoline (Unleaded) C_4 to C_{12} · Hydrocarbons	X	X	X	X		A		A	A	C	A	A	A	A	C	A	A	A	A	B
Gasoline (Petrol) Hydrocarbons	B	C	A	X	A	A	A	A	A	C	A	A	A	A	C	A	A	A	A	C
Gelatin Water soluble Proteins	A	A	A	A	B	B	A	A	A	A	A	A	A		A	B	A	A		A
Ginger Oil $C_{17}H_{26}O_4$		A				A		A		C		X	A							
Glauber's Salt (Sodium Sulfate Decahydrate) $Na_2SO_4 \cdot 10H_2O$	A	A	A	B	B	A		A												
Gluconic Acid $C_6H_{12}O_7$			C			A		A			B	C	50% A		A					
Glucose (Corn Syrup) $C_6H_{12}O_6$	A	A	A	A	B	A	A	A	A	A	A	A	A		A	A	A	A		A
Glue(PVA)	A	A	A	B	B	A	A	A	A	A	A	A	B	A	A	B		A		A
Glycerol (Glycerine) $C_3H_8O_3$	A	A	A	A	A	A	A	A	A	A	A	B	A	A	A	A	A	B	A	A 140°
Glycolic Acid $HOCH_2COOH$		A	A			A				A				A	A		A		A	A 140°
Glycols		A	A			A		A	A	A	B	B	B		A	A	A	A	A	A 140°

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

CHEMICAL Formula	ELASTOMERS										METAL PARTS				PLASTICS					
	RUPPLON™ (Polyurethane)	NEOPRENE	BUNA-N	E.P.D.M.	HYTREL®	FLUROCARBON (Viton®)	BLUE GYLON®	PTFE,PFA	ENVELON®	SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	WR-C (Hastelloy Equiv.)	UNFILLED POLYPROPYLENE	ACETAL(Delrin®)	KYNAR® (PVDF)	NYLON	RYTON®	UHMW POLYETHYLENE
Gold Monocyanide AuCN		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	A	B	A		A							
Green Sulfate Liquor		B	B	A	X	A	A	A	B	A	B	C	A	B	A					
Halowax Oil Chlorinated naphthalenes		X	X	X		A		A		X	X									
Heptanal $CH_3(CH_2)_5CHO$			A			A	X				A	A	A	A	A					
Heptane C_7H_{16}	B	C	A	X		A		A	A	C	A	A	A	A	C 140°	A	A	A	A	A
Hexanal $CH_3(CH_2)_4CHO$	C	A	X	B		C		A			A	B	A	B						
Hexalin (Cyclohexanol) $C_6H_{11}OH$		A	B	C		A		A												
n-Hexane C_6H_{14}	B	B	A	X	A	A		A	A	A	A	A	A	A	C 140°	C	A	A	A	B
n-Hexane 1 (Hexylene) $H_2CCH(CH_2)_3CH_3$	A	B	A	X		A		A		C										
Hexyl Alcohol (1-Hexanol) $C_6H_{13}OH$	X	B	A	C		A		A			A	A	A				A			A 140°
Hexylene Glycol (Brake Fluid) $C_6H_{12}(OH)_2$		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		A		A
Hydrazine (Diamine) H_2NNH_2	X	C	C	A	X	X		A	A	A	A	X	A	A	X	B	X			
Hydrobromic Acid HBr	X	C	X	A		A	A	A	A	B	A	A	A		B	X	A	X	A	A 140°
Hydrochloric Acid 10% (Muratic) HCl	B	B	B	A		A		A	A	A	X	C	X	B	A	X	A	A	A	A
Hydrochloric Acid 20% (Muratic) HCl	B	B	B	A	C	A		A	A	A	X	C	X	A	A	X	A	A	A	A
Hydrochloric Acid 30% (Conc.) HCl	X	C	C	A	X	B		A	A		X	X	X	A	B	X	A	X	A	A
Hydrocyanic Acid (Formonitrile) HCN	C	C	B	A	X	A	A	A	A	B	10% A	X	A	B	A	X	A	A		A 122°
Hydrogen Fluoride -- Anhydrous HF	C	C	X	C		A	X	A	C		X		X	A	A		A	X		
Hydrofluoric Acid (Conc.) Cold HF	X	C		C	X	B	X	A	C	X	C	X	X	B	40% A	X	A	X	A	A 140°

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CHEMICAL Formula	ELASTOMERS										METAL PARTS				PLASTICS					
	RUPPLON™ (Polyurethane)	NEOPRENE	BUNA-N	E.P.D.M.	HYTREL®	FLUROCARBON (Viton®)	BLUE GYLON®	PTFE,PFA	ENVELON®	SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	WR-C (Hastelloy Equiv.)	UNFILLED POLYPROPYLENE	ACETAL(Delrin®)	KYNAR® (PVDF)	NYLON	RYTON®	UHMW POLYETHYLENE
Hydrogen Peroxide -- 3% H_2O_2		B	B	B	X	A		A	A	A	A				A		A	X	X	A 122°
Hydrogen Peroxide -- 10% H_2O_2		C	C	B	X	A		A	A		A	B	A	A	A		A	X	X	A 122°
Hydrogen Peroxide -- 30% H_2O_2		X	C	B	X	A		A	A		A	X	B	A	A		A	X	X	A 122°
Hydrogen Peroxide -- 90% H_2O_2	C	B	X	B	C	A		A	A		A	X	A					X	X	A
Hydrogen Sulfide (Wet) H_2S		C	X	A	A	X	A	A	A	A	90% A	X	A 167°	A 167°	A	C	A	X	A	A
Hydroquinone $C_6H_4(OH)_2$		X	C			C		A		A	90% A	B	10% A	B			A			A 140°
Hydroxyacetic Acid -- 10% $HOCH_2COOH$		X	X					A		70% A	B		B							
Hypochlorous Acid HClO		X	X	B		A		A		A	X	X	X	A	A		A	X		A 140°
Ink		A	A			A		A		A	C	X	A	A						A 140°
Iodine I_2		B	B	B	B	A		A		A	A	X	X	A	A		A 150°	X		B
Iodoform CHI_3				A				A		B	A	A	A	A			A			
Isoamyl Acetate $CH_3CO_2CH_2CH_2CH \cdot (CH_3)_2$	X	X	X	B		X		A			A	A	A	A						
Isoamyl Alcohol $(CH_3)_2 \cdot CHCH_2CH_2OH$	C	A	A	A		A		A												
Isoamyl Butyrate $C_9H_{18}O_2$			X			X		A			A	A	A	A						
Isoamyl Chloride $(CH_3)_2$, $CHCH_2CH_2Cl$		X	X	X		A		A			X									
Isobutyl Acetate $CH_3CO_2CH_2 \cdot CH(CH_3)_2$		X	X	C		X		A			A	A	A	A						
Isobutyl Alcohol (Isobutanol) $(CH_3)_2 \cdot CHCH_2OH$	X	B	B	A		A		A			A				A	A	A	A	A	A 140°
Isobutyl Amine $(CH_3)_2 \cdot CHCH_2NH_2$			X			X		A												
Isobutyl Chloride $(CH_3)_2 \cdot CHCH_2Cl$			X			B		A			X	B	B	90% A						
Isobutyric Acid $(CH_3)_2 \cdot CHCOOH$		B	X	A				A			A									
Isododecane $(CH_3)_2 \cdot CH(CH_2)_8CH_3$	B	A	B	X		A		A			B	B	B	B						
Isooctane (Trimethylpentane) C_8H_{18}	B	B	A	X	A	A		A		C	A	A	A	A	A		A	A	A	
Isopentane $(CH_3)_2$, $CHCH_2CH_3$			A			A		A												

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

CHEMICAL Formula	ELASTOMERS										METAL PARTS				PLASTICS					
	RUPPLON™ (Polyurethane)	NEOPRENE	BUNA-N	E.P.D.M.	HYTREL®	FLUROCARBON (Viton®)	BLUE GYLON®	PTFE,PFA	ENVELON®	SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	WR-C (Hastelloy Equiv.)	UNFILLED POLYPROPYLENE	ACETAL(Delrin®)	KYNAR® (PVDF)	NYLON	RYTON®	UHMW POLYETHYLENE
Isophorone $C_9H_{14}O$	C	X	X	C		X		A		B	A	A	A	A						
Isopropyl Acetate $CH_3COOCH, (CH_3)_2$	A	X	X	B		X		A		B	A	A	A	A	B			A		
Isopropyl Alcohol (Isopropanol) $CH_3CH(OH)CH_3$	X	A	B	B	A	A		A	A		90% A	A	A	A	A	A	A	X	A	A 140°
Isopropyl Amine $C_3H_7NH_2$			X			X		A				A	A							
Isopropyl Chloride $(CH_3)_2CHCl$	X	X	X	X		B		A		C	X	A	A	A	X					
Isopropyl Ether $(CH_3)_2CHOCH \cdot (CH_3)_2$	C	C	C	X		C		A		C	B		A		X		A 70°	A		
Jet Fuels (JP1 to JP6) (ASTM-A, A1 & B)	C	C	A	X	A	A		A	A	C	A	A	A	A	X	A	A	A	A	
Kerosine (Kerosene) Hydrocarbons	C	C	A	X	A	A	A	A	A	C	A	A	A	A	X	A	A	A	A	C 140°
Lacquers	X	X	X	X	X	X	A	A	A	C	A	B	A	A		B		A		
Lacquer Solvents	X	X	X	X	C	X	A	A	A	C	A	B	A	A	C	B	X	B		
Lactic Acid $CH_3CHOH \cdot COOH$		B	B	A	X	A	A	A	A	A	A	X	70% A	60% A	A	C	A	X	A	A 140°
Lactol (Aliphatic Naptha Solvent) $CH_3CHOH \cdot CO_2C_{10}H_7$		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	A	A		A 140°
Latex Rubber emulsion		A	A					A			A		A		A	C		A		
Lauryl Alcohol (n-Dodecanol) $CH_3(CH_2)_{10} \cdot CH_2OH$			A			B				A	A	A	A	A						A 140°
Lavender Oil Ester mixture		X	B	X		B		A		B										
Lead Acetate (Sugar of Lead) $Pb(CH_3CO_2)_2$	X	A	B	A		X		A		A	X		B	B	A	A	A	B	A	A
Lead Chloride $PbCl_2$		B						A			X		B	B	A		A			
Lead Nitrate $Pb(NO_3)_2$		A	B	A		A		A			X	B	B	B	A		A			A 125°
Lead Sulfamate			A	B			A		A		A					A			B	
Lemon Oil (Cedro Oil) Hydrocarbons			C				A		A		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							

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CHEMICAL Formula	ELASTOMERS										METAL PARTS				PLASTICS					
	RUPPLON™ (Polyurethane)	NEOPRENE	BUNA-N	E.P.D.M.	HYTREL®	FLUROCARBON (Viton®)	BLUE GYLON®	PTFE,PFA	ENVELON®	SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	WR-C (Hastelloy Equiv.)	UNFILLED POLYPROPYLENE	ACETAL(Delrin®)	KYNAR® (PVDF)	NYLON	RYTON®	UHMW POLYETHYLENE
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			B		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	A	A	B	A	A	A	A	A	A	A	A	A	A
Lindol (Tritolyl Phosphate) $C_{21}H_{21}O_4P$		C	X			B		A		A										
Lithium Bromide $LiBrH_2O$		X	A			A		A	A			A					A			
Lubricating Oils (Petroleum) Hydrocarbons	C	B 150°	A	X	A	A	A	A	A	X	A	A	A	A	C	A	A	A	A	A
Lye (Potassium Hydroxide) KOH		B	C		C	B		A	B	A			A		A	X	A 150°	C	A	A 140°
Magnesium Carbonate $MgCO_3$		A	A	C	A	A		A		A	A	B	B	B	A	A	A	A		A 140°
Magnesium Chloride $MgCl_2O$	A	A	A	A	A	A	A	A	A	A	20% A	30% B	50% B	A	A	B	A	A	A	A
Magnesium Hydroxide (Milk of Magnesia) $Mg(OH)_2$	A	B	B	A	C	A	A	A	A	A	10% A	A	A	A	A	A	A	B	A	A
Magnesium Nitrate $Mg(NO_3)_2 \cdot 6H_2O$		A	A	A		A		A		A	50% B	B	A	B	A		A	A	A	A 140°
Magnesium Oxide MgO		A	A			B		A		A	10% A	A	A	A						
Magnesium Sulfate (Epsom Salts) $MgSO_4 \cdot 7H_2O$		A	A	A	B	A	A	A		A	70% A	A	50% A	A	A	A	A	A	A	A
Maleic Acid $(CHCOOH)_2$		A	X	X		A		A		A	20% A	60% B	B	A	A		A	X		A 140°
Maleic Anhydride $C_4H_2O_3$				X		A		A		A	20% A	B	A	A						
Malic Acid (Apple Acid) $C_4H_6O_5$		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					A
Mercuric Chloride $HgCl_2$		B	A	A		A	A	A	A	A	X	X	X	30% B	A	B	A	X		A 140°

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

CHEMICAL Formula	ELASTOMERS										METAL PARTS				PLASTICS					
	RUPPLON™ (Polyurethane)	NEOPRENE	BUNA-N	E.P.D.M.	HYTREL®	FLUROCARBON (Viton®)	BLUE GYLON®	PTFE,PFA	ENVELON®	SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	WR-C (Hastelloy Equiv.)	UNFILLED POLYPROPYLENE	ACETAL(Delrin®)	KYNAR® (PVDF)	NYLON	RYTON®	UHMW POLYETHYLENE
Mercuric Cyanide $Hg(CN)_2$		B	B	A		A		A		A	X	B	B	B	A		A			A 140°
Mercurous Nitrate $Hg_2(NO_3)_2 \cdot 2H_2O$		B	B	A		A		A			X	B	B 212°	B	A		A			A 140°
Mercury Hg	A	A	A	A	A	A	A	A	A	A	X	A	A	A	A	C	A	A		
Mesityl Oxide $(CH_3)_2C = CHCOCH_3$		X	X	B		X		A		C	A	A	A	A						
Methane CH_4	C	B	A	X	B	A		A	A	C	A	A	A	A	B	A	A	A		
Methyl Acetate $CH_3CO_2CH_3$		C	X	C	C	X		A		B	A	A	A	A	C	B		A		
Methyl Acetoacetate $CH_3COCH_2 \cdot COOCH_3$			X			X		A				A	A	A						
Methyl Acrylate $CH_2CHCO_2CH_3$		C		C		X		A		B		A	A				A 70°			
Methyl Acrylic Acid (Crotonic Acid) $CH_3(CH)_2COOH$		C		C		X		A	A											
Methyl Alcohol (Methanol) CH_3OH	X	A	A	A	A	B	A	A	A	A	B	A	A	A	A	A	A	X	A	A
Methyl Amine (Monomethylamine) CH_3NH_2		A	B	A		90% A		A			B	B	A	B	X		C			
Methyl Amyl Acetate $C_8H_{16}O_2$			A			X		A			A	A	A	A						
Methyl Amyl Alcohol $C_6H_{13}OH$			A			X		A			A	A	A	A						
Methyl Aniline $C_6H_5NH(CH_3)$		A	A	A				A												
Methyl Bromide (Bromo Methane) CH_3Br		X	C	A	X	A		A		X	X	A	A	B	X		A	X		C
Methyl Butyl Ketone (2-hexanone) $CH_3COC_4H_9$		X	X	B		X		A		C			A		X					
Methyl Butyrate $CH_3(CH_2)_2 \cdot CO_2CH_3$		X	X	X				A			A	A	A	A						
Methyl Cellosolve® $CH_3OCH_2 \cdot CH_2OH$		X	X			X		A		B	A				A		A	A		
Methyl Chloride CH_3Cl	X	X	X	C	X	B	A	A	A	X	X	A	A	A	X	B	A	B	A	C
Methyl Cyclopentane C_6H_{12}		X	B	X		A		A		C			A							
Methyl Dichloride CH_2Cl_2		X	X			A				X	X				X					
Methyl Ethyl Ketone (Butanone) $CH_3CO \cdot CH_2CH_3$	X	X	X	A	C	X		A	A	B	A	A	A	A	X	B	X	A	A	X

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CHEMICAL Formula	ELASTOMERS										METAL PARTS				PLASTICS					
	RUPPLON™ (Polyurethane)	NEOPRENE	BUNA-N	E.P.D.M.	HYTREL®	FLUROCARBON (Viton®)	BLUE GYLON®	PTFE,PFA	ENVELON®	SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	WR-C (Hastelloy Equiv.)	UNFILLED POLYPROPYLENE	ACETAL(Delrin®)	KYNAR® (PVDF)	NYLON	RYTON®	UHMW POLYETHYLENE
Methyl Formate $HCOOCH_3$		B	X	C		X		A		B	A	A	A							
Methyl Hexane C_7H_{16}		A	A	X		A		A												
Methyl Iodide CH_3I		X	X	A				A			X	A	A	A						
Methyl Isobutyl Ketone (Hexone) $CH_3COCH_2CH \cdot (CH_3)_2$		X	X	C	X	X		A	A	C	A	B	B	A	C 70°	A	A 70°	X	A	
Methyl Isopropyl Ketone $CH_3COCH(CH_3)_2$		X	X	C	X	X		A		C			A		C		A 70°			
Methyl Methacrylate $CH_2C(CH_3) \cdot CO_2CH_3$		X	X	X		C		A	A	B	B		A				A 70°			
Methyl Oleate $C_{19}H_{36}O_2$		X	X	C		B		A		C										
Methyl Propyl Ketone $CH_3CH_2 \cdot CH_2COCH_3$		X	X	B		X		A												
Methyl Salicylate (Betula Oil) $HOC_6H_4 \cdot COOCH_3$		X	X	C		B		A		B	A	A								
Methylacrylic Acid $CH_3CHCHCO_2H$		B				B		A	A	A										
Methylamine CH_3NH_2		A	B	A		90% A		A		A	B	B	A	B	A					
Methylene Bromide CH_2Br_2		X	X			B		A			X	A	A	A			A			
Methylene Chloride CH_2Cl_2	X	X	X	X	X	B		A	A	X	X	B	90% A	A	X		B 100°	A	A	X
Milk	X	A	B	A	B	A	A	A	A	A	A	X	A	A	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	C	A	A	A	A	B	A	A	A	A	A
Mixed Acids (Sulfuric & Nitric) H_2SO_4, HNO_3	X	X	X	B		A		A			X	X	B	B	X		A	C		
Molasses	X	A	A	A	B	A		A		A	A	A	A	A	A	B	A	A	A	A
Monochlorobenzene C_6H_5Cl		X	X		C	A		A		C	X	A	A		X	A	A 100°	B	A	B
N-Methyl Aniline $C_6H_5NHCH_3$		X	X			C		A							C					
Monoethanolamine $NH_2C_2H_4OH$		C	B			C		A		A	B	A	A		X	X	X	A	A	
Mustard		A	C		B	X		A		A	B	X	A	A	A	A		A		
Naphtha (Petroleum Spirits) (Thinner) Petroleum fractions	C	X	A	X	A	A		A	A	C	A	B	A	A	X	A	A	A	A	A

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

CHEMICAL Formula	ELASTOMERS										METAL PARTS				PLASTICS					
	RUPPLON™ (Polyurethane)	NEOPRENE	BUNA-N	E.P.D.M.	HYTREL®	FLUROCARBON (Viton®)	BLUE GYLON®	PTFE,PFA	ENVELON®	SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	WR-C (Hastelloy Equiv.)	UNFILLED POLYPROPYLENE	ACETAL(Delrin®)	KYNAR® (PVDF)	NYLON	RYTON®	UHMW POLYETHYLENE
Naphtha Coal Tar (Benzol) Hydrocarbons	X	X	X	X		A		A	A		A	B	A	A						
Naphthalene (Tar Camphor) $C_{10}H_8$	C	X	X	X	C	A		A	A	C	B	A	A	A	A	A	A	A	A	B
Naphthoic Acid $C_{11}H_8O_2$			B	X		A		A			B	B	A	B						
Neatsfoot Oil			A	C		A		A		B			A							
Neohexane (2,2-dimethylbutane) C_6H_{14}			A			A		A												
Neosol	X	A	A	B		C		A			10% B	B	A	A						
Neville Acid		C	C	C		B		A		A										
Nickel Acetate $Ni(CH_3CO_2)_2$		B	B	A		X		A		A	B		A		A		A			
Nickel Chloride $NiCl_2$	A	A	A	A	X	A	A	A	A	A	X	X	B	A 200°	A	B	A	B	A	A
Nickel Nitrate $Ni(NO_3)_2 \cdot 6H_2O$		A	A	A		A		A			X		A	B	A		A	A	A	A
Nickel Sulfate $NiSO_4$	A	A	A	A		A	A	A	A	A	X	X	A	B	A	A	A	B	A	A
Nitrana (Ammonia Fertilizer)		B	B			C		A					A							
Nitric Acid -- 10% HNO_3	C	B	X	B	C	A		A	A	A	A	X	A	A	A		A	X	X	A 140°
Nitric Acid -- 25% HNO_3	C	C	X	B	X	A		A	A	20% B	X	X	30% A	30% A	A		A	X	X	A 140°
Nitric Acid -- 35% HNO_3	C	X	X	C	X	A	A	A	A		X	X	50% A	50% A	B		A	X	X	C 140°
Nitric Acid -- 50% HNO_3	C	X	X	X	X	A		A	A	C	X	X	A	X	C		A	X	X	X
Nitric Acid -- 70% HNO_3	X	X	X	X	X	A		A	A			X	A	X			A	X	X	X
Nitric Acid (Conc.) HNO_3	X	X	X	X	X	B		A	A	C	A	X	A	40% A	X		A 120°	X	X	
Nitric Acid (Red Fuming)	X	X	X	X	X	B	X	A	A	X	A	X	A	B	X		C			X
Nitrobenzene $C_6H_5NO_2$	X	X	X	X	X	B	A	A	A	B	A	A	A	55% B 212°	B	B	A 70°	B	A	X
Nitroethane $C_2H_5NO_2$		C	X	C		X		A		A	A	A	A	A	C		A 70°			
Nitrogen Tetroxide N_2O_4		X	X	X	50% B	C		A	A		A	B	A	A	X		C			
Nitromethane CH_3NO_2		C	X	C	X	X		A	A	A	A	A	A	A	C	B 120°	A	A		
1-Nitropropane $CH_3(CH_2)_2NO_2$		C	X	A		X		A	A		A	A	A	A						
Octadecane $CH_3(CH_2)_{16}CH_3$	A	B	A	X		A		A		B										

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CHEMICAL Formula	ELASTOMERS										METAL PARTS				PLASTICS					
	RUPPLON™ (Polyurethane)	NEOPRENE	BUNA-N	E.P.D.M.	HYTREL®	FLUROCARBON (Viton®)	BLUE GYLON®	PTFE,PFA	ENVELON®	SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	WR-C (Hastelloy Equiv.)	UNFILLED POLYPROPYLENE	ACETAL(Delrin®)	KYNAR® (PVDF)	NYLON	RYTON®	UHMW POLYETHYLENE
n-Octane C_8H_{18}			A	X		A		A		B					X		A	A		
Octyl Acetate $CH_3COO \cdot (CH_2)_7CH_3$			X			X		A			A		A							
Oleic Acid (Red Oil) $C_{18}H_{34}O_2$	X	X	C	C	A	B	A	A	A		A	C	B	A	B	B	A	B	A	A
Octachlorotoluene C_7Cl_8		X	X			A		A			X				X					
Oleum (Fuming Sulfuric Acid) H_2SO_4/SO_3		X	C		20-25% X	A		A		X	X	X	A		X		X			X
Olein (Triolene) $C_{57}H_{104}O_6$		C	B					A												
o-Dichlorobenzene $C_6H_4Cl_2$		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	A		A 140°
Oxalic Acid $(COOH)_2$		B	C	A	X	C	A	A	A	A	B	X	90% B	B	A	X	A 120°	B	A	A 140°
Ozone O_3	A	B	X	A	C	A	A	A	A	A	10% A	0% A	A	A	X	C	A	X		B
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						A 140°
Palmitic Acid $CH_3(CH_2)_{14}$ COOH	A	C	B	B	A	B	A	A	A	B	B	B	A		A		A	C		
Paraffins (Paraffin Oil) Hydrocarbons			A					A	A	A	A		A	A	A	A		A		A
Paraformaldehyde $(CH_2O)_n$		B	B			C		A			10% A	A	A	A						
Paraldehyde $C_6H_{12}O_3$		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) $Cl_2 \cdot CHCCl_3$		X	X			A		A			X	A	A	A						
Pentachlorophenol (PCP) C_6Cl_5OH		X	X	X		A		A	A		A	A	A	A						
Pentane (Amyl Hydride) C_5H_{12}		B	A	X	B	A		A	A	A	A	B	B					A		
Peppermint Oil		X	X			A		A		C			A							C
Perchloric Acid $HClO_4$		B	X	B	X	A	A	70% A	A	C	X	X	B			C	A	X	A	A 140°

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

CHEMICAL Formula	ELASTOMERS										METAL PARTS				PLASTICS					
	RUPPLON™ (Polyurethane)	NEOPRENE	BUNA-N	E.P.D.M.	HYTREL®	FLUROCARBON (Viton®)	BLUE GYLON®	PTFE,PFA	ENVELON®	SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	WR-C (Hastelloy Equiv.)	UNFILLED POLYPROPYLENE	ACETAL(Delrin®)	KYNAR® (PVDF)	NYLON	RYTON®	UHMW POLYETHYLENE
Perchloroethylene (Tetrachloroethylene) C_2Cl_4	X	X	X	X	X	A		A	A	X	X	B	90% A	B	X	A	A	C	A	
Petroleum (Crude Oil) (Sour) Hydrocarbons	C	C	B	X	C	A	A	A	A		B	B	A	A	X	A	A	A		A
Phenethyl Alcohol (Benzyl Carbinol) $C_6H_5(CH_2)_2OH$	X	X	X	B		X		A			A	A	A	A						
Phenol (Carbolic Acid) C_6H_5OH	X	C	X	C	X	A		A	A	A	B	A	B	A	C	X	A 100°	X	A	C
Phenyl Sulfonic Acid $C_6H_4(OH)SO_3H$			X			X		A			B	B	B							
Phenyl Acetate $CH_3COOC_6H_5$	X	X	X	B		X		A												
Phenylbenzene C_6H_5		X	X			A		A		C										
Phenyl Ethyl Ether (Phenetole) $C_6H_5OC_2H_5$		X	X	X		C		A		C										
Phenyl Hydrazine $C_6H_5NHNH_2$		X	X	X		A		A		B	A	X			X		A 120°			
Phorone (Diisopropylidene Acetone) $C_9H_{14}O$		X	X	C		A		A		B										
Phosphoric Acid -- 10% H_3PO_4	A	B	A	A		A		A	B	A	X	X	A		A 120°		A	X	A	A 140°
Phosphoric Acid -- 20% H_3PO_4	A	B	C	A		A		A	B	A	X	X	A 212°	A	A 120°		A	X	A	A 140°
Phosphoric Acid -- 50% H_3PO_4	A	B	X	B		A	X	A	B	45% B	X	X	A	C	A 120°		A	X	A	A 140°
Phosphoric Acid (Conc.) H_3PO_4	C	B	X	B	X	A		A	C		X	X	A 212°		A 120°		A	X	A	A 140°
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		A	A 140°
Photographic Developer		A	A		X	A				A	C	X	A	A	A	C	A	B	A	A 140°
Pickling Solution	C	X		X		B		A		A				A						A 140°
Picric Acid (Carbazotic Acid) $(NO_2)_3 \cdot C_6H_2OH$	B	B	B	B	X	A		A	A	B	A	C	A	B	B		A	X		A
Pine Oil (Yarmor) Cyclic terpene alcohols		X	B	X		A		A		C	A	B	A							C
Pinene $C_{10}H_{16}$	C	X	B	X		A		A	A	C										
Piperidine $C_5H_{11}N$		X	X	X		X		A	A	B										
Plating Solution · Cadmium			B	B					A		A			A		X		B	A	

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CHEMICAL Formula	ELASTOMERS										METAL PARTS				PLASTICS					
	RUPPLON™ (Polyurethane)	NEOPRENE	BUNA-N	E.P.D.M.	HYTREL®	FLUROCARBON (Viton®)	BLUE GYLON®	PTFE,PFA	ENVELON®	SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	WR-C (Hastelloy Equiv.)	UNFILLED POLYPROPYLENE	ACETAL(Delrin®)	KYNAR® (PVDF)	NYLON	RYTON®	UHMW POLYETHYLENE
Plating Solution -- Chrome	X	X	X	C		A		A		A					A 131°	X		B	X	A 140°
Plating Solution -- Lead		B	B					A		A						A		B	X	C 140°
Plating Solution -- Others		C	A	A		B		A		A			A							A 140°
Polyvinyl Acetate Emulsion $PVac + H_2O$		C		A				A		A		B					A			
Potassium Acetate CH_3CO_2K		B	B	A		X		A	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	A	A	A
Potassium Bisulfate $KHSO_4$		A	A			A		A			10% A	X	10% A		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	A	A	
Potassium Carbonate (Potash) K_2CO_3	C	A	A	A		A		A	A	A	X	B	B	90% A	A	B	A	C	A	A
Potassium Chlorate $KClO_3$		A	A	A		A		A		A	X	B	A	20% A	A	B	A	B	A	A
Potassium Chloride KCl	A	A	A	A		A		A		A	X	B	A	30% A 167°	A	B	A	B	A	A
Potassium Chromate K_2CrO_4		A	A			50% A	A	A	A	A	A	A	A		A		A	A		A 140°
Potassium Copper Cyanide $K_3[Cu(CN)_4]$	A	A	A	A		A		A							A		A			
Potassium Cyanide KCN	A	A	A	A		A	A	A	A	A	C	B	90% B 212°	30% B	A	C	A	A	A	A 140°
Potassium Dichromate $K_2Cr_2O_7$	A	A	A	A		A	A	A	A	A	A	A	A	25% B	A	C	A	X	A	A
Potassium Hydroxide (Caustic Potash) (Lye) KOH	B	B	B	A	C	B		A	B	A	X	B	A	50% B	A	C	A 150°	B	A	A 140°
Potassium Iodide KI		A	A	A		A		A			10% B		B	B	A		A			B
Potassium Nitrate (Saltpeter) KNO_3	A	A	A	A		A		A	A	A	80% A	B	80% B 212°	80% B 212°	A	B	A	B	A	A
Potassium Nitrite KNO_2	A	A	A	A	B	A		A			B	B	B	B						
Potassium Permanganate (Purple Salt) $KMnO_4$		C	C	A	X	B		A	A	A	10% A	B	30% B 212°	A	B	A	A	X	A	A 140°
Potassium Phosphate KH_2PO_4		A	A	A		A		A			X	X	30% B	10% B						
Potassium Silicate $K_2Si_2O_5$		A	A	A		A		A			B	B	B	B						

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

CHEMICAL Formula	ELASTOMERS										METAL PARTS				PLASTICS					
	RUPPLON™ (Polyurethane)	NEOPRENE	BUNA-N	E.P.D.M.	HYTREL®	FLUROCARBON (Viton®)	BLUE GYLON®	PTFE,PFA	ENVELON®	SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	WR-C (Hastelloy Equiv.)	UNFILLED POLYPROPYLENE	ACETAL(Delrin®)	KYNAR® (PVDF)	NYLON	RYTON®	UHMW POLYETHYLENE
Potassium Sulfate K_2SO_4	A	A	A	A	B	A	A	A	A	A	B	B	A	A	A	B	A	B	A	A
Potassium Sulfide K_2S	A	A	A	A		A		A			X	B	B	10% B	A		A	A	A	A 140°
Potassium Sulfite $K_2SO_32H_2O$		A	A	A		A		A			A	X	50% B		A		A			A 140°
Propane (LPG) C_3H_8	B	B	A	X	B	A	A	A	A	C	A	A	A	A	X	A	A	C		A
Propionaldehyde (Propanal) C_2H_5CHO			X			X		A			A	A	A	A						
Propionic Acid (Methylacetic Acid) $CH_3CH_2CO_2H$		X	X	A		A		A			A	X	B	90% A						
n-Propyl Acetate $CH_3COO \cdot (CH_2)_2CH_3$		X	X	A		X		A		B	A		A	A	C		A			
Propyl Alcohol (1-Propanol) $CH_3CH_2CH_2OH$	X	B	B	A		A		A			A	A	A	A	A	A	A	X	A	A 140°
n-Propyl Nitrate (NPN) $CH_3(CH_2)_2NO_3$			A	B		C	A	A		B	A	X								
Propylene C_3H_6		X	X	X		A		A	A	B	A	A	A	A						
Propylene Dichloride $CH_3CH(Cl)CH_2Cl$		X	X	X		B		A			X	A	A	B						X
Propylene Glycol (Methyl Glycol) $C_3H_6(OH)_2$		C	A	A		A		A		A	A	A	A	A	A	A	A	B	A	A 140°
Propylene Oxide C_3H_6O		X		C		X		A		A	B	B	A		X		X			
Pydraul (Phosphate Eser Base Fluid)	X	X	X	B	A	A		A		A		A	A	A				C		
Pyranol		X	A			A		A												
Pyridine $N(CH)_4CH$	X	X	X	C	X	X		A		A	A	B	A	50% A 100°	C	A	X	X	A	A
Pyroligneous Acid (Wood Vinegar)		C	C	C		A		A			B	X	10% A		A	X	A	X	A	
Pyrrole (Azole) C_4H_5N		X	X	X		C		A		C										
Quaternary Ammonium Salts (NH_4 X)		A	A			A		A				X	A							
Quench Oil		B	B			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	B		A		A
Rosin Oil (Rosinol)		A	A			A		A												

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CHEMICAL Formula	ELASTOMERS										METAL PARTS				PLASTICS					
	RUPPLON™ (Polyurethane)	NEOPRENE	BUNA-N	E.P.D.M.	HYTREL®	FLUROCARBON (Viton®)	BLUE GYLON®	PTFE,PFA	ENVELON®	SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	WR-C (Hastelloy Equiv.)	UNFILLED POLYPROPYLENE	ACETAL(Delrin®)	KYNAR® (PVDF)	NYLON	RYTON®	UHMW POLYETHYLENE
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		A	X	X	B	A	A	X	A	B	A	
Sal Soda (Sodium Carbonate) $NaCO_3$		A	A	A		A		A			X	A	A	A						
Salicylic Acid $HOC_6 \cdot H_4COOH$		B	B	A		B		A			A	X	B	A	A		A	A		A 140°
Salt Water (Brine) $NaCl/H_2O$	A	B	A	A	A	A		A	A	A	B	X	A	A	A		A			
Sea Water (Brine)	A	B	A	A	X	A	A	A		A	A	C	A	A	A	A	A	A	A	A 140°
Sesame Seed Oil Olein, stearin, palmitin		C	A			A		A		B		A	A							
Sewage	X	B	A	C	B	A	A	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.) $(CH_3)_2SiO_2]_n$	A	C	A	A	A	A		A		C	B	B	A	A	A		A	A	A	A
Silver Cyanide AgCN		A						A			X	A	A	A	A		A			A 140°
Silver Nitrate $AgNO_3$	A	A	B	A		A		A	A	A	X	X	60% A	60% A	A	A	A	A	A	A
Skydrol Hydraulic Fluid® (Phosphate Ester Base)		X	X	A	A	C		A		B			A	A				C		
Soap Solutions Salt of fatty acid in H_2O	A	B	A	A	A	A	A	A	A	A	C	X	A	A	A	A	A	A	A	A
Soda Ash (Sodium Carbonate) Na_2CO_3		A	A	A	B	A	A	A	A	A	X	A	A	A						
Sodium Acetate CH_3COONa	X	C	C	A		X		A		A	A	A	A	A	A	A	A	B	A	A
Sodium Aluminate $Na_2Al_2O_4$		A	A			A		A		A		50% A	50% A	10% B	A		A	A		

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

CHEMICAL Formula	ELASTOMERS										METAL PARTS				PLASTICS					
	RUPPLON™ (Polyurethane)	NEOPRENE	BUNA-N	E.P.D.M.	HYTREL®	FLUROCARBON (Viton®)	BLUE GYLON®	PTFE,PFA	ENVELON®	SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	WR-C (Hastelloy Equiv.)	UNFILLED POLYPROPYLENE	ACETAL(Delrin®)	KYNAR® (PVDF)	NYLON	RYTON®	UHMW POLYETHYLENE
Sodium Bicarbonate (Baking Soda) $NaHCO_3$		A	A	A	B	A	A	A	A	A	B	C	20% A	20% A	A	X	A	B	A	A
Sodium Bisulfite (Niter Cake) $NaHSO_4$		A	A	A	B	A	A	A		A	50% B	C	50% B	B	A	C	A	B	A	A
Sodium Bisulfite (Cream of Tartar) $NaHSO_3$		A	C	A	B	A		A		A	B	20% B	50% A	B	A	X	A	X		A
Sodium Borate $Na_2B_4O_7$		A	A	A	B	A		A		A	B		A	A	C 140°	A	A	A	A	A
Sodium Bromide NaBr								A			C	C	30% B	50% B	A		A	A		A 140°
Sodium Chlorate $NaClO_3$		B	A	A		A		A	A	A	70% B 212°	B	B	70% B 212°	A	B	A	B	A	A 140°
Sodium Chloride (Table Salt) NaCl	A	A	A	A	A	A	A	A	A	A	B	30% B	A	A	A	A	A	A	A	A 140°
Sodium Chromate Na_2CrO_4		A	A		A	A		A	A	80% A 212°	60% A	60% A	60% A	A		A	A			
Sodium Cyanide NaCN		A	A	A	A	A	A	A	A	A	X	A	A		A	C	A	B	A	A
Sodium Dichromate (Sodium Bichromate) $Na_2Cr_2O_7 \cdot 2H_2O$	A	B		A	20% X	A		A							A		A	X	A	A 140°
Sodium Fluoride NaF		A	A	A		A		A			30% B		10% B	10% B	A		A	A		A 140°
Sodium Hexametaphosphate (Calgon) $(NaPO_3)_6$	B	B	B	B		A		A			C	B	B	A						
Sodium Hydroxide (Caustic Soda) (Lye) NaOH	C	B	B	A	X	X		A	A	50% A	X	50% B	50% A	70% B 212°	A	X	A	C	X	A 140°
Sodium Hypochlorite NaClO	X	B	X	C	5% A	B	A	A	A	20% A	X	X	X	10% B	X	X	A	C	X	A 140°
Sodium Metaphosphate (Kurrol's Salt) $Na(PO_3)H$	B	C	B	A		A		A	A	A	X		B	A	X	B		A		A
Sodium Metasilicate Na_2SiO_3		A	A			A				A	B		A	A	A	B	A			
Sodium Nitrate (Chile Saltpeter) $NaNO_3$		B	C	A	B	A	A	A	A	A	90% A	90% A	90% A	30% A	A	A	A	B	A	A
Sodium Nitrite $NaNO_2$		X	A			A		A			A	A	A	A	A		A			A 140°
Sodium Perborate $NaBO_3$		B	C	A	B	A	A	A	A	A	X	10% B	A	10% B	A	B	A	B		A
Sodium Peroxide (Sodium Dioxide) Na_2O_2	X	B	B	B	B	A	A	A	A	B	10% B	90% A	10% B	10% B	B	X	A	X		A 140°
Sodium Phosphate (Tribasic) (TSP) Na_3PO_4	A	B	B	A	B	A	A	A	B	A	X	B 167°	B	A	A		A	B		A

Data limited to % concentration and/or temperature℉ shown. Where not shown temperature is 70℉ (21 ℃) Ambient.

01 부식데이터에 따른 압력용기 선정 가이드

CHEMICAL Formula	ELASTOMERS										METAL PARTS				PLASTICS					
	RUPPLON™ (Polyurethane)	NEOPRENE	BUNA-N	E.P.D.M.	HYTREL®	FLUROCARBON (Viton®)	BLUE GYLON®	PTFE,PFA	ENVELON®	SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	WR-C (Hastelloy Equiv.)	UNFILLED POLYPROPYLENE	ACETAL(Delrin®)	KYNAR® (PVDF)	NYLON	RYTON®	UHMW POLYETHYLENE
Sodium Silicates (Water Glass) $Na_2O \cdot SiO_2$		A	A	A	A	A		A	B	A	A	A	A	B	A		A	A	A	A
Sodium Sulfate (Salt Cake) (Thenardite) Na_2SO_4	A	B	A	A	A	A	A	A	A	A	30% B 30%	B	A	A	A		A	B	A	
Sodium Sulfide (Pentahydrate) $Na_2S \cdot 5H_2O$	A	A	A	A	A	A	A	A	A	A	30% A 212°	B	30% A 167°	50% B 212°	A	A	A	B	A	
Sodium Sulfite Na_2SO_3	A	A	A	A	A	A		A			30% A 30%	X	30% A 30%	30% B 212°	A	A	A	B	A	
Sodium Tetraborate $Na_2B_4O_7 \cdot 10H_20$				A		B	A		A		A			A		C		A	B	A
Sodium Thiosulfate (Antichlor) $Na_2S_2O_3$	A	A	A	A		A	A	A	A		A	C	122° A 122°	122° B 122°	A	B	A	B	A	
Sorgum			A	A					A		A		A	A	A					
Soybean Oil Triglycerides of acids		C	A	A	C	A	A	A	A	A	B	A	A	A	A	B	B		A	A
Soy Sauce Fermented soya bean/wheat			A	A					A		A		X	A						
Sperm Oil (Whale Oil) Fatty acid esters		X	A			A		A		B		A	A	A						
Stannic Chloride (Tin Chloride) $SnCl_4$	B	B	A	B	B	A	A	A	A	A	X	C	10% A 10%	B	A		A	B	A	
Stannous Chloride (Tin Chloride) $SnCl_2$	B	A	A	B	15% B 15%	A		A			X	B	10% A 10%	A	A		A	B	A	
Starch $C_6H_{10}O_5$		A	A	B	B	C		A	A	A	A	C	A	A	A	B		A	A	
Stearic Acid $CH_3(CH_2)_{16}CO_2H$	A	B 158°	B	B	B	A	A	A	A	B	C	C	A	B	A	C	A	A		
Stoddard Solvent Petroleum distillate	A	C	A	X	A		A	A		C	A	A	A	X	A	A	X	A		
Styrene (Vinylbenzene) $C_6H_5CHCH_2$	C	X	X	X	X	A		A	A	C	A	A	A	A			A	A		
Sucrose Solution (Sugar) $C_{12}H_{22}O_{11}/H_2O$	X	A	A	A	A	A		A		A	A	A	A	A						
Sulfamic Acid H_2NSO_3H		A	B		A			A			10% A 10%	X	X		X		X			
Sulfite Liquors			B	A	C	B	A		A		A				A					
Sulfur	S	B	B	X	A	A	A	A	A		A	A	A	A	B	A	A	A	A	A
Sulfur Chloride S_2Cl_2		X	C	X	C	A	A	A	A	X	B	X	B	A	X		A	C		
Sulfur Dioxide SO_2	B	A	X	B	X	A	A	A	A	A	A	B	10% A 10%	80% A 80%	A	B	A	C	A	
Sulfur Hexafluoride SF_6		A	B	A	A	A	A	A		B										
Sulfur Trioxide SO_3	B	C	C	C	X	A	A	A	A	C	B	B	B	B	X		X	A		
Sulfuric Acid 10% H_2SO_4	B	A	B	A	A	A	A	A	A	A	X	X	A	A	A		A	X	X	
Sulfuric Acid 25% H_2SO_4	X	B	C	B	A	A	A	A	A	A	X	X	B	A	A		150° A 150°	X	X	

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

	ELASTOMERS										METAL PARTS				PLASTICS					
CHEMICAL Formula	RUPPLON™ (Polyurethane)	NEOPRENE	BUNA-N	E.P.D.M.	HYTREL®	FLUROCARBON (Viton®)	BLUE GYLON®	PTFE,PFA	ENVELON®	SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	WR-C (Hastelloy Equiv.)	UNFILLED POLYPROPYLENE	ACETAL(Delrin®)	KYNAR® (PVDF)	NYLON	RYTON®	UHMW POLYETHYLENE
Sulfuric Acid 50% H_2SO_4	X	B	C	B	A	A	A	A	A	A	X	X	X	A	A		150° A 150°	X	X	
Sulfuric Acid 60% H_2SO_4	X	C	X	B	X	A	A	A	A	A	X	X	X	A	A		150° A 150°	X	X	
Sulfuric Acid 75% H_2SO_4	X	X	X	C	X	A	A	A	A	A	X	C	C	A	A		150° A 150°	X	X	
Sulfuric Acid 95% H_2SO_4	X	X	X	C	X	A	A	A	B	A	X	B	A	A	X		150° A 120°	X	X	
Sulfuric Acid (Conc.) H_2SO_4	X	X	X	C		A		A	B	98% B 98%	X	B	B	A	X		150° A 120°	X		
Sulfuric Acid (Fuming) H_2SO_4	X	X	X	X	20% X 20%	B	A	A			C	X	B	B						
Sulfurous Acid H_2SO_3	X	X	B	C	C	A	A	A	A	A	B	X	B	B	A	X	A	X	A	A 140°
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		A		A
Tannic Acid $C_{76}H_{52}O_{46}$	A	B	C	C	10% A	A	A	A	A	A	A	A	A	10% B	A	X	A	A	A	
Tanning Liquors Tannic acid		B	A					A		A	A		A	A	A	X				A 140°
Tar, Bituminous(Coal Tar) (Pitch) Mixture of aromatic & phenolic hydrocarbons		C	B	X	X	A	A	A	A	B	A		A	A	A	A		C		
Tartaric Acid $C_4H_6O_6$	A	A	B	B	B	A	A	A	A	A	20% A	X	A	90% A	A	X	A	A	A	
Terpenes C_{10} hydrocarbons	C	X	C	X		A		A			A	X								A
Terpineol (Terpilenol) $C_{10}H_{18}O$	X	X	C	C		A		A		B	A	A	A	A	X		B 120°			
Tertiary Butyl Alcohol $(CH_3)_3COH$		A	A			B		A		B					B					
Tertiary Butyl Catechol $C_9H_{14}O_2$		B	X			A		A		B	C	B	B							
Tertiary Butyl Mercaptan $C_4H_{10}S$		X	X			A		A		B										
Tetra Bromomethane CBr_4		X	X			A		A	A	X	X				X					
Tetrabutyl Titanate $Ti(C_4H_9)$	A		B	B		A		A		B										
Tetrachloroethylene $Cl_2C = CCl_2$									A	X							A			B
Tetrachlorodifluoroethane $(Cl_2FC)_2$		X	X					A												
Tetrachloroethane (Acetylene Tetrachloride) $(Cl_2HC)_2$		X	X	X		A		A		X	X	A	C	90% A 212°	X	A	A	C		

Data limited to % concentration and/or temperature℉ shown. Where not shown temperature is 70℉ (21 ℃) Ambient.

01 부식 데이터

CHEMICAL Formula	ELASTOMERS										METAL PARTS				PLASTICS					
	RUPPLON™ (Polyurethane)	NEOPRENE	BUNA-N	E.P.D.M.	HYTREL®	FLUROCARBON (Viton®)	BLUE GYLON®	PTFE,PFA	ENVELON®	SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	WR-C (Hastelloy Equiv.)	UNFILLED POLYPROPYLENE	ACETAL(Delrin®)	KYNAR® (PVDF)	NYLON	RYTON®	UHMW POLYETHYLENE
Tetraethyl Lead $Pb(C_2H_5)_4$		X	B	X		B		A		C	B	A	A		A		A			A 140°
Tetraethylene Glycol (TEG) $HOCH_2 \cdot (CH_2OCH_2)_3CH_2OH$			A			A		A												
Tetrahydrofuran (THF) C_4H_8O	C	X	X	C	C	X		A	A	B					C 100°	A	70% B	A	A	B
Tetrahydronaphthalene (Tetralin) $C_{10}H_{12}$		X	X	X		A		A			A	A	A	A	C			A	A	X
Thionyl Chloride $SOCl_2$		X	X	X		B		A	A	B	C	A	A	10% A	B	B	X	X		C
Thiophene C_4H_4S		X	X	X		C		A												
Titanium Tetrachloride $TiCl_4$		X	C	X		A		A	A	X	X	A	B	B	B		B	A		
Toluene (Toluol) $C7H_8$	X	X	C	X	C	B	A	A	A	C	A	A	A	A	X	B	A	A	A	X
Toluene Diisocyanate $CH_3C_6H_3(NCO)_2$		X		A	B			A		B										
Toluidine $CH_3C_6 \cdot H_4NH_2$			X			B		A			A	A	A	A						
Tomato Pulp & Juice			A					A		A	B		A	A	A		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		A		A
Transmission Fluid (Type A)	A	C	A	X	B	A		A		C	A	A	A	A						
Triacetin $C_3H_5, (OCOCH_3)_3$	X	B	A	A		X		A		A	B									
Triallyl Phosphate $P(OC_3H_5)_3$	C	C	X	A		A		A							B		A	A		
Triaryl Phosphate $(C_6H_5O)_3PO$		C	X			A		A												
Tributyoxyl Ethyl Phosphate $(C_4H_9O)_3P(C_2H_5)$	X	X	X	A		B		A		B										
Tributyl Phosphate (TBP) $(C_4H_9)_3PO_4$	X	X	X	C	C	X		A		B	A	A	A		B 100°		A 100°	B		
Dibutyl Mercaptan $(C_4H_9)_2S$		X	X			A		A		B										
Trichloroacetic Acid (TCA) CCl_3COOH		B	C	C	X	B		A	A	B	X	X	X	B	B		B	X	A	C 140°
Trichlorobenzenes $C_6H_3Cl_3$		X	X			B		A			X	A	A	B						
Trichloroethane $C_2H_3Cl_3$	X	X	X	X		B		A		X	X	A	A	A	X		A	X	A	
Trichloroethylene (Ex-Tri) (Hi-Tri)® C_2HCl_3	X	X	X	X	X	C	A	A	A	X	X	B	90% A 167°	A	X	B	A	C	A	X

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

CHEMICAL Formula	ELASTOMERS										METAL PARTS				PLASTICS					
	RUPPLON™ (Polyurethane)	NEOPRENE	BUNA-N	E.P.D.M.	HYTREL®	FLUROCARBON (Viton®)	BLUE GYLON®	PTFE,PFA	ENVELON®	SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	WR-C (Hastelloy Equiv.)	UNFILLED POLYPROPYLENE	ACETAL(Delrin®)	KYNAR® (PVDF)	NYLON	RYTON®	UHMW POLYETHYLENE
Trichloropropane $CH_2ClCH\ ClCH_2Cl$		A	X			B		A		X	X	A	A	A	X					
Tricresyl Phosphate (Lindol) (TCP)® $(CH_3C_6H_4O)_3 \cdot PO$	X	C	X	A	C	C		A	A	B		A	B	A	B		X	A		
Tricresyl Alcohol (Tridecanol) $C_{12}H_{25} \cdot CH_2OH$			A			B		A												
Triethanol Amine (TEA) $N(C_2H_4OH)_3$	X	A	X	B	X	C		A	A	A	A	A	A	A	A	B	X	A	A	A
Triethyl Aluminum (ATE) $Al(C_2H_5)_3$		X	X			B		A	A	B										
Triethyl Amine $(CH_3CH_2)_3N$		B	A					A				A	A	A	C		A 120°			
Triethyl Borane $(C_2H_5)_3B$		X	X			A		A		B										
Triethylene Glycol (TEG) $(CH_2OCH_2CH_2OH)_2$			A			A		A							A			A		
Trimethylene Glycol $HO(CH_2)_3OH$			A	A		A		A			A	A	A	A						
Trinitrotoluene (TNT) $CH_3C_6H_2(NO_2)_3$		B	X	X		C		A		A										
Trioctyl Phosphate $(C_8H_{17}O)_3PO$		X	X	A		B		A		B										
Tung Oil (Wood Oil) Fatty acids	C	C	A	X	B	A		A	A	B	A		A	A	A					
Turpentine $C_{10}H_{16}$	X	X	A	X	B	A	A	A	A	C	A	A	A	A	X	A	A	B	A	C
Unsymmetrical Dimethyl Hydrazine (UDMN) $H_2NN(CH_3)_2$		C	C	A		X		A		B							A			
Urea (Carbamide) $CO(NH_2)_2$		B	B		B	A		A			B		50% B		A	A	A	A	A	A
Urine		X	A			A		A		A	A	A	A	A	A	C	A	A		A 140°
Valeric Acid $CH_3(CH_2)_3COOH$		X	X	A				A			A									
Vanilla Extract (Vanillin) $C_6H_3(CHO) \cdot (OCH_3)(OH)$		X	A			X		A					A							A 140°
Varnish Oil, gum resins, oil of turpentine		C	B	X		A		A	A		A		A	A	A		A	X		A
Vegetable Juices		C	A					A		A	C		A							
Vegetable Oils	A	C	B	A		A		A		B	A	B	A	A	X			A	A	A
Vinegar Dilute acetic acid	X	B	C	A	C	A	A	A	A	A	C	X	A	A	A	C	A	X	A	A 140°
Vinyl Acetate $CH_3COOC,\ HCH_2$		B	X			X		A			B	A	A	A	B		A			X

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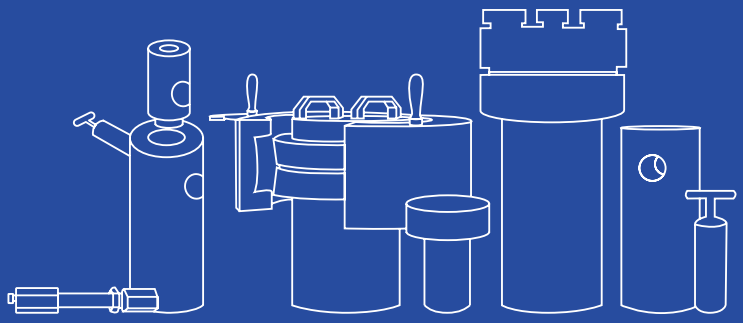
01 부식 데이터

CHEMICAL Formula	ELASTOMERS										METAL PARTS				PLASTICS					
	RUPPLON™ (Polyurethane)	NEOPRENE	BUNA-N	E.P.D.M.	HYTREL®	FLUROCARBON (Viton®)	BLUE GYLON®	PTFE,PFA	ENVELON®	SANTOPRENE®	ALUMINUM	CAST IRON/STEEL	STAINLESS STEEL	WR-C (Hastelloy Equiv.)	UNFILLED POLYPROPYLENE	ACETAL(Delrin®)	KYNAR® (PVDF)	NYLON	RYTON®	UHMW POLYETHYLENE
Vinyl Chloride (Chloroethylene) CH_2CHCl		X	X	C		A		A	A	X	X	A	A	A	X		B	A		
Walnut Oil		B	A			A		A												
Water, Distilled (Also Deionized) H_2O	A	C	A	A		A	A	A	A	A	A	C	A	A	A	A	A	A	A	A 140°
Water, Fresh H_2O	A	B	A	A	A 72°	A	A	A	A	A	A	A	A	A	A	A	A	B	A	A 140°
Waxes Hydrocarbons		A	A	X				A	A		A		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	A	A	X	A	A	A	B	A	A		A
White Oil (Mineral) (Petroleum) Mixture of liquid hydrocarbons		C	A	X		A		A		C			A	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	A	A	C	X	A	A	A	B	A	A		A 140°
Wort, Distillery Sugar solution from malt		A				A		A			A	B	A	A						
Xylene (Xylol) $C_6H_4(CH_3)_2$	X	X	X	X	C	A		A	A	C	A	B	B	A	X	A	A	A	A	X
Xylidines (Xylidin) $(CH_3)_2C_6H_3NH_2$		X		X		X		A		C	B	B								
Zeolite Hydrated alkali aluminum silicates		C	C	A		A		A		A			A	A						
Zinc Acetate $Zn(C_2H_3O_2)_2$		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	A	A	10% A	B	10% A	A	A	B	A	C	A	A 140°
Zinc Hydrosulfite $ZnHSO_3$		A	A			A		A		A	X		A							
Zinc Sulfate $ZnSO_4$		A	A	A	X	B	A	A	A	A	20% B	X	B	90% B	A	B	A	B	A	A

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



ILSHIN AUTOCLAVE