

# Chemical Resistance Guide



THERMOPLASTIC PIPING SYSTEMS

## CHEMICAL RESISTANCE GUIDE

### Thermoplastics:

ABS, PVC, CPVC, PE, PEX, PP, PVDF

### Elastomers:

EPDM, FPM (FKM), SBR,  
BUNA-N (Nitrile)



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## CHEMICAL RESISTANCE GUIDE

### INTRODUCTION

Thermoplastics and elastomers have outstanding resistance to a wide range of chemical reagents. The chemical resistance of plastic piping is basically a function of the thermoplastic material and the compounding components. In general, the less compounding components used the better the chemical resistance. Thermoplastic pipes with significant filler percentages may be susceptible to chemical attack where an unfilled material may be affected to a lesser degree or not at all.

Some newer piping products utilize a multi-layered (composite) construction. Both thermoplastic and non-thermoplastic materials are used for the layers. Layered composite material pipe may have chemical resistance that differs from the chemical resistance of the individual material. Such resistance however, is a function both of temperatures and concentration, and there are many reagents which can be handled for limited temperature ranges and concentrations. In borderline cases, it will be found that there is limited attack, generally resulting in some swelling due to absorption. There are also many cases where some attack will occur under specific conditions, but for many such applications, the use of plastic will be justified on economic grounds when considered against alternative materials. Resistance is often affected (and frequently reduced) when handling a number of chemicals or compounds containing impurities. For this reason, when specific applications are being considered, it may be worthwhile to carry out tests using the actual product that will be encountered in service. The listing that follows does not address chemical combinations.

The data in the following tables were obtained from numerous sources in the industry. The information is based on immersion tests on unstressed coupons, experiments and, when available, actual process experience as well as data from tests inclusive of stress from temperature and pressure. The end user should be aware of the fact that actual service conditions will affect the chemical resistance.

Chemicals that do not normally affect the properties of an unstressed thermoplastic may cause completely different behavior (such as stress cracking) when under thermal or mechanical stress (such as constant internal pressure or frequent thermal or mechanical stress cycles). Chemical resistance data from immersion tests cannot be unconditionally applied to thermoplastic piping components subjected to continuous or frequent mechanical or thermal stresses.

When the pipe will be subject to a continuous applied mechanical or thermal stress or to combinations of chemicals, testing that duplicates the expected field conditions as closely as possible should be performed on representative samples of the pipe product to properly evaluate plastic pipe for use in this application.

### RATINGS

- 1      High Resistance - All materials belonging to this class are completely or almost completely inert when used with the specified chemical at the specified concentration/temperature levels.
- 2      Limited Resistance - All materials belonging in this class are partially attacked by the specified chemicals at the specified concentration/temperature levels. Life expectancy is thus shortened and it is recommended to use a higher safety factor than that adopted for Class 1 materials.
- 3      No Resistance - All materials in this class are severely attacked by the specified chemicals at the specified concentration/temperature levels. They should, therefore, not be used.

The absence of any class indication for any given materials, signifies the absence of data for such material(s) with respect to the specific chemical(s), temperature(s) and concentration(s).

## INTRODUCTION TO CHEMICAL RESISTANCE GUIDE

### THERMOPLASTICS

**ABS** - (Acrylonitrile-Butadiene-Styrene) is ideal for residential and commercial sanitary (DWV) systems. With a working pressure up to 230 psi, ABS is also suitable for industrial applications such as mine slurry lines. Temperature range is -40°C (-40°F) to 82°C (180°F). ABS is resistant to a wide variety of materials ranging from sewage to household chemicals. It is joined by solvent cementing or threading.

**PVC** - (Polyvinyl Chloride) is the most frequently specified of all thermoplastic-piping materials. It has been used successfully for over 60 years. PVC is characterized by distinctive physical properties, and is resistant to corrosion and chemical attack by acids, alkalis, salt solutions and many other chemicals. It is attacked, however by polar solvents such as ketones and aromatics. Of the various types and grades of PVC used in plastic piping, Type 1, Grade 1 PVC (Cell Classifications 12454) conforming to ASTM D1784, is the most common. The maximum service temperature for PVC is 60°C (140°F) under pressure and 82°C (180°F) in drainage. With a design stress of 2,000 psi, PVC has the highest long-term hydrostatic strength 22.7°C (73°F) of any other major thermoplastic material used for piping. PVC piping is joined by solvent cementing, threading, flanging, grooving, gasketed joints, or mechanical joints.

**CPVC** - (Chlorinated PVC) (Cell Classification 23447), conforming to ASTM D 1784 has physical properties at 22.7°C (73°F) similar to those of PVC; its chemical resistance is similar to or generally better than that of PVC. With a design stress of 2,000 psi and maximum service temperature of 93.3°C (200°F), CPVC has proven to be an excellent piping material for hot corrosive liquids, hot and cold water distribution and similar applications above the temperature range of PVC. CPVC piping is joined by solvent cementing, threading, flanging or grooved joints.

**PE** - (Polyethylene) is a member of the polyolefin group. It is tough and flexible even at subfreezing temperatures. Pipes are generally formulated with only an antioxidant and some pigments, usually carbon black, to screen out ultraviolet radiation. ASTM D 1248 classifies three types. Type I low density, Type II medium density and Type III high density. Pipe is usually made from medium or high density for higher strength and hardness. PE is generally used for gas distribution, water lines and slurry lines.

**PEX** - (Cross-linked Polyethylene) is high density PE that undergoes a treatment to link single strands of PE through radical reactions between the molecules to form a dense network with up to 80% crosslinking. The primary reason to crosslink PE is to raise the thermal stability of the material. Service temperatures are raised to 82°C (180°F). PEX pipe is primarily used for plumbing and radiant floor heating systems.

**PP** - (Polypropylene) is a lightweight polyolefin and generally high in chemical resistance. Although Type 1 polypropylene conforming to ASTM D2146 is slightly lower in physical properties than PVC, it is chemically resistant to organic solvents as well as acids and alkalis. Generally, polypropylene should not be used in contact with strong oxidizing acids, chlorinated hydrocarbons and aromatics. Polypropylene has a design stress of 1,000 psi at 22.7°C (73°F), and has proven to be an excellent material for laboratory and industrial drainage pipe where mixtures of acids, bases and solvents are involved. Polypropylene is joined by the electro fusion process, socket/butt/IR welding as well as mechanical joints.

**PVDF** - (Polyvinylidene Fluoride) is a strong, abrasion-resistant thermoplastic with excellent heat stability and chemical resistance typical of fluorocarbon polymers. It can be used in temperatures up to 149°C (300°F) with a wide variety of acids, bases and organic solvents, and is ideally suited for handling wet or dry chlorine, bromine and other halogens. No other thermoplastic piping material can approach the combination of strength, chemical resistance and operating temperature that PVDF piping systems can offer. Electro fusion socket/butt/IR welding, threading, or flanged connections are the joining methods used for PVDF.

## INTRODUCTION TO CHEMICAL RESISTANCE GUIDE

### ELASTOMERS

**BUNA-N** - (Nitrile) (NBR) is a general purpose oil resistant polymer known as nitrile rubber. BUNA-N is a copolymer of butadiene and acrylonitrile. BUNA-N has good solvent, oil, water and hydraulic fluid resistance. It displays good compression set, abrasion resistance and tensile strength. BUNA-N should not be used in highly polar solvents such as acetone and methyl ethyl ketone, nor should it be used in chlorinated hydrocarbons, ozone or nitro hydrocarbons. Temperature range -54°C (-65°F) to 135°C (275°F).

**EPDM** - (EPM) is an elastomer made from ethylene-propylene diene monomer. EPDM has good abrasion and tear resistance and offers excellent chemical resistance to a variety of acids and alkalines. It is susceptible to attack by oils and is not recommended for applications involving petroleum oils, strong acids or strong alkalines. It has exceptionally good weather, ageing and ozone resistance. It is fairly good with ketones and alcohols and has an excellent temperature range from -54°C (-65°F) to 49°C (300°F).

**Fluorocarbon** - (FPM) (FKM) (Viton®) Fluorocarbon elastomers are inherently compatible with a broad spectrum of chemicals. Because of this extensive chemical compatibility, which spans considerable concentration and temperature ranges, fluorocarbon elastomers have gained wide acceptance as a material of construction for butterfly valve o-rings and seats. Fluorocarbon elastomers can be used in most applications involving mineral acids, salt solutions, chlorinated hydrocarbons, and petroleum oils. They are particularly good in hydrocarbon service. Temperature range -29°C (-15°F) to 204°C (400°F).

**SBR** - (Styrene-Butadiene) The basic monomers are butadiene and styrene, with styrene content approximately 23.5%. It is useful over a temperature range of -57°C (-70°F) to 107°C (224°F). It is compatible with water, alcohol, and weak acids but is not compatible with mineral oils, petroleum greases and fuels.

**Teflon®** - (PTFE) Polytetrafluoroethylene has outstanding resistance to chemical attack by most chemicals and solvents. PTFE has a temperature rating of -29°C (-20°F) to 204°C (400°F) in valve applications. PTFE, a self lubricating compound, is used as a seat material in ball valves. PTFE is not included in this chart because it is resistant to all listed compounds.

## CHEMICAL RESISTANCE CHART

Chemicals	Temp.	PVC			CPVC					PP					PVDF						ABS					
		20 °C 68	40 °C 104	60 °C 140	20 °C 68	40 °C 104	60 °C 140	80 °C 176	100 °C 212	20 °C 68	40 °C 104	60 °C 140	80 °C 176	100 °C 212	120 °C 248	20 °C 68	40 °C 104	60 °C 140	80 °C 176	100 °C 212	120 °C 248	20 °C 68	40 °C 104	60 °C 140		
Acetaldehyde		3	3	3	3	3	3	3	3	2	3				3							3				
Acetaldehyde Aqueous, 40%		2	3							1	1	1	2	3	3								3			
Acetamide		1			1					1					1							1				
Acetic Acid, 10%		1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Acetic Acid, 20%		1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Acetic Acid, 25%		1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Acetic Acid, 30%		1	2	2	1		2			1	1	1	1	1	1	1	1	1	1	1	1	3	3			
Acetic Acid, 60%		1	2	2	1		2			1	1	1	2	2	2	1	1	1	2	2	2	3	3			
Acetic Acid, 80%		1	2	2	1			2		1	3	3	3	3	3	1	1	1	2	2	2	3	3			
Acetic Acid, 85%		1			3					1					1							3				
Acetic Acid Glacial, 100%		2	3	3	2	3	3	3	3	1	2	2	3	3	1	2	2	3	3	3	3	3				
Acetic Acid, Hot,																										
Acetic Acid, Vapor		1			1					1												1				
Acetic Anhydride		3								1	2	2	3	3	3	3	3	3	3	3	3	3	3			
Acetone		3			3					1	1	1			3							3				
Acetone, 5%		3			3					1												3				
Acetone, pure		3	3	3	3	3	3	3	3	1	1	1			2	3	3	3	3	3	3	3				
Acetone, up to 5%					1																					
Acetonitrile										1					2							3				
Acetophenetidin																										
Acetophenone										1	3				1	1						3	3			
Acetyl Acetone		3			3										3											
Acetyl Bromide															1											
Acetyl Chloride		3			3										1											
Acetyl Nitrite		3			3										1											
Acetyl-dl-Alanine																										
Acetyl-dl-Valine-n																										
Acetyl-dl-Leucine-n																										
Acetyl-dl-Methionine-n																										
Acetyl-dl-Tryptophan-n																										
Acetylene Gas, 100%		3			3					1					1							1				
Acetylene Tetrabromide																										
AcetylNitrile					3	3	3			1	1				2	3	3	3	3	3	3	3				
Acetylsalicylic Acid										2					1							3				
Acrylonitrile		3			3										1							3				
Adipic Acid, Sat'd		1	1	2	1					1	1	1	1	1	1	1	1	1								
Aero Lubriplate																										
Alanine-dl																										
Alcohols		1			1					1					1											
Allyl Alcohol, 96 %		2	3	3	1					1	1	1	1	1	1	1						3	3			
Allyl Chloride		3			3										1											
Aloin																										
Aluminum Acetate, Sat'd		1			1					1					1							2				
Aluminum Ammonium		1			1					1					1											
Aluminum Bromide		1			1					1					1											
Aluminum Chloride, Sat'd		1	1	1	1	1				1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	
Aluminum Fluoride, Sat'd		1	1	1	1					1					1	1						1	1			
Aluminum Hydroxide, Sat'd		1	1	1	1					1					1	1						1				
Aluminum Nitrate, Sat'd		1	1	1	1					1					1	1						1				

1 - High Resistance

2 - Limited Resistance

3 - No Resistance

## CHEMICAL RESISTANCE CHART

Chemicals	Temp.	°C °F	HDPE			X-PE					EPDM					FPM (FKM)						BUNA-N		SBR	
			20 68	40 104	60 140	20 68	40 104	60 140	80 176	100 212	20 68	40 104	60 140	80 176	100 212	20 68	40 104	60 140	80 176	100 212	120 248	20 68	20 68	20 68	20 68
Acetaldehyde						2					1	2	3			2	3								2
Acetaldehyde Aqueous, 40%						2					1	1	1	1	1	2	3								2
Acetamide		1				1					1					3							1		3
Acetic Acid, 10%		1				1	1				1	1	2			2	3						3		1
Acetic Acid, 20%		1				1	1				1	1	2			2	3						2		1
Acetic Acid, 25%		1				1	1				1	1	2			2	3						3		1
Acetic Acid, 30%		1				1	1				1	3				1						2		1	
Acetic Acid, 60%		1				1	1						3			1							3		1
Acetic Acid, 80%		1				2					2	3	3	3		1			2				3		2
Acetic Acid, 85%		1																					3		2
Acetic Acid Glacial, 100%		1				1					3	3	1	3	3	2	3	3	3	3		2		1	
Acetic Acid, Hot																							3		3
Acetic Acid, Vapor		1																							
Acetic Anhydride		1				1					2					3							3		3
Acetone											1	1	1			3	3	3					3		3
Acetone, 5%			1																						
Acetone, pure											1	1	1				3	3							
Acetone, up to 5%																									
Acetonitrile			1								3													2	
Acetophenetidin		1																							
Acetophenone		1				1					1					3							3		3
Acetyl Acetone											1					3							3		3
Acetyl Bromide												3				3									3
Acetyl Chloride													3				3								3
Acetyl Nitrite											3					3									3
Acetyl-dl-Alanine		1																							
Acetyl-dl-Valine-n		1																							
Acetyl-dl-Leucine-n		1																							
Acetyl-dl-Methionine-n		1																							
Acetyl-dl-Tryptophan-n		1																							
Acetylene Gas, 100%		1				1					1					1							1		1
Acetylene Tetrabromide		3									1					1							3		3
Acetylnitrile											2						2								
Acetylsalicylic Acid		1																							
Acrylonitrile		1									3												3		2
Adipic Acid, Sat'd		1									1	1	1			1	1	1					1		1
Aero Lubriplate											3					1							1		1
Alanine-dl		1																							
Alcohols											1					1									
Allyl Alcohol, 96 %		1				1					2	2	2	3		2	3		3			1			
Allyl Chloride			2								3					2							2		
Aloin		1																							
Aluminum Acetate, Sat'd		1									1					3							2		3
Aluminum Ammonium		1				1					1					1							1		1
Aluminum Bromide			1								1					1							1		1
Aluminum Chloride, Sat'd		1				1					1	1	1			1	1	1	1	1	1		1		1
Aluminum Fluoride, Sat'd		1				1					1					1							1		1
Aluminum Hydroxide, Sat'd		1				1					1					1							1		
Aluminum Nitrate, Sat'd		1				1					1					1							1		1

1 - High Resistance

2 - Limited Resistance

3 - No Resistance

## CHEMICAL RESISTANCE CHART

Chemicals	PVC			CPVC					PP					PVDF						ABS					
	Temp.	20 °C °F 68	40 °C °F 104	60 °C °F 140	20 °C °F 68	40 °C °F 104	60 °C °F 140	80 °C °F 176	100 °C °F 212	20 °C °F 68	40 °C °F 104	60 °C °F 140	80 °C °F 176	100 °C °F 212	120 °C °F 248	20 °C °F 68	40 °C °F 104	60 °C °F 140	80 °C °F 176	100 °C °F 212	120 °C °F 248	20 °C °F 68	40 °C °F 104	60 °C °F 140	
Aluminum Oxalate																									
Aluminum Oxide																									
Aluminum Oxychloride	1				1					1					1										
Aluminum Potassium Sulfate, Sat'd	1				1					1					1							1			
Aluminum Salts																									
Aluminum Sodium Sulfate																									
Aluminum Sulfate, Sat'd	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Alums, NH <sub>3</sub> -Cr-K																									
Ambrex 33 (Mobil)																									
Ambrex 830 (Mobil)																									
Amines																									
Amino Acetic Acid																									
Aminobutric-a-dl Acid																									
Aminoisobutyric-2 Acid																									
Ammonia Anhydrous																									
Ammonia Gas	1	1	1	1						1					3							3			
Ammonia Gas, Cold	1	1	1							1	1	1			1	1	2	2	2			3			
Ammonia Liquid	2	3	1							1					1	1						1			
Ammonium Acetate, Sat'd	1	1	2	1						1	1	1	1	1	1	1	1	1	1	1	1				
Ammonium Benzoate				1						1															
Ammonium Bifluoride, Sat'd	1			1						1					1										
Ammonium Bisulfide	1														1										
Ammonium Bromide																									
Ammonium Carbonate, Sat'd	1	1	2	1						1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Ammonium Chloride, Sat'd	1	1	1	1	1	1				1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	
Ammonium Citrate				1																					
Ammonium Dichromate	1		1												1										
Ammonium																									
Ammonium Fluoride, 10%	1			1						1					1							1			
Ammonium Fluoride, 20%	1	2	1	1	1					1	1				1	1	1	3			1	1	1		
Ammonium Fluoride, 25%	1	2	1	1						1	1				1	1	1	3			1	1	1		
Ammonium Fluoro Silicate																									
Ammonium Glycolate																									
Ammonium Hydroxide	1	1	1		1	1	1			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Ammonium	1			1						1					1						1				
Ammonium Molybdate																									
Ammonium Nitrate, Sat'd	1	1	1	1	1	1				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Ammonium Nitrite																									
Ammonium Oxalate																									
Ammonium Oxylate																									
Ammonium Persulfate	1	1	1	1						1					1						1				
Ammonium Persulfate, 10%	1	1	1	1	2					1	1	1	1	1	1	1	1	1	1	1	1	1	3		
Ammonium Phosphate, Dibasic	1	1	1	1	2					1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Ammonium Phosphate, Monobasic	1	1	1	1						1	1	1	1	1	1	1	1	1	1	1	1	1	1		

1 - High Resistance

2 - Limited Resistance

3 - No Resistance

## CHEMICAL RESISTANCE CHART

Chemicals	Temp.	HDPE			X-PE					EPDM					FPM (FKM)						BUNA-N	SBR			
		20 °C 68	40 104	60 140	20 68	40 104	60 140	80 176	100 212	20 68	40 104	60 140	80 176	100 212	20 68	40 104	60 140	80 176	100 212	120 248	20 68	20 68			
Aluminum Oxalate		2																							
Aluminum Oxide		1																							
Aluminum Oxychloride																									
Aluminum Potassium Sulfate, Sat'd		1			1					1											1	1			
Aluminum Salts										1								1			1	1			
Aluminum Sodium Sulfate		1																							
Aluminum Sulfate, Sat'd		1								1	1	1				1	1	1	1	1			1		
Alums, NH <sub>3</sub> -Cr-K										1						1					1	1			
Ambrex 33 (Mobil)										1						1					1		3		
Ambrex 830 (Mobil)										1						1					1		3		
Amines										3						2					3	1			
Amino Acetic Acid		1																							
Aminobutric-a-DL Acid		1																							
Aminoisobutyric-2 Acid		1																							
Ammonia Anhydrous		2																					3		
Ammonia Gas		1		1						1						3					1	1			
Ammonia Gas, Cold										1						1	3				1	1			
Ammonia Liquid		1								1						3	3				2	3			
Ammonium Acetate, Sat'd		1		1						1	1	1	2			1	1	1	1	1		1			
Ammonium Benzoate																									
Ammonium Bifluoride, Sat'd		1		1						1						1					1				
Ammonium Bisulfide																					1				
Ammonium Bromide		1																							
Ammonium Carbonate, Sat'd		1		1						1	1	1	1			1	1	1	1	1		1			
Ammonium Chloride, Sat'd		1		1						1						1	1	1	1	1	1	1	1		
Ammonium Citrate																									
Ammonium Dichromate		2								2						1					1				
Ammonium			1																						
Ammonium Fluoride, 10%		1								1						1		3							
Ammonium Fluoride, 20%																1		3							
Ammonium Fluoride, 25%		1								1						1		3			1				
Ammonium Fluoro Silicate			1																						
Ammonium Glycolate		1																							
Ammonium Hydroxide		1	2							1	1	1	1			1	2	2			1	2			
Ammonium		1		1						1						1					1	1			
Ammonium Molybdate		1		1																					
Ammonium Nitrate, Sat'd		1		1						1						1	1	1	1	1	1	1	1		
Ammonium Nitrite										1											1	1			
Ammonium Oxalate			1																						
Ammonium Oxylate		2																							
Ammonium Persulfate		1								1						1					3	3			
Ammonium Persulfate, 10%										1											3	3			
Ammonium Phosphate, Dibasic		1		1						1	1	1	1			1	1	1	1	1	1	1			
Ammonium Phosphate, Monobasic		1								1	1	1	1			1	1	1	1	1	1	1	1		

1 - High Resistance

2 - Limited Resistance

3 - No Resistance

## CHEMICAL RESISTANCE CHART

Chemicals	Temp.	PVC			CPVC					PP					PVDF						ABS				
		20 °C 68	40 °C 104	60 °C 140	20 °C 68	40 °C 104	60 °C 140	80 °C 176	100 °C 212	20 °C 68	40 °C 104	60 °C 140	80 °C 176	100 °C 212	120 °C 248	20 °C 68	40 °C 104	60 °C 140	80 °C 176	100 °C 212	120 °C 248	20 °C 68	40 °C 104	60 °C 140	
Ammonium Phosphate		1	1	1	1					1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Ammonium Potassium		1			1					1					1								1		
Ammonium Sulfamate				1																					
Ammonium Sulfate		1	1	2	1					1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Ammonium Sulfide, Dilute		1	2	1						1	1				1	1	1						1	1	1
Ammonium Sulfocyanide																									
Ammonium Tartarate				1																					
Ammonium Thiocyanate		1			1					1					1								1		
Ammonium Thioglycolate																									
Amonia Acetate, Sat'd		1			1					1													1		
Amonia Gas		1			3					1													3		
Amonia Liquid		3			3					1													1		
Amyl Acetate		3	3	3	3					2	2				1	2	2	2	2	2	3	3	3	3	3
Amyl Alcohol, Pure		1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	3	3	3	3	
Amyl Borate																									
Amyl Chloride		3			3					3					1								3		
Amyl Chloronaphthalene																									
Amyl Naphthalene																									
Amyl Phthalate																									
Ang-25 (Glyceral Ester)																									
Aniline		3	3	3	3	3	3	3	3	2					1	1	2		3			3	3	3	3
Aniline Chlorohydrate		2	3	3	3	3	3	3	3	2	2	2	3	3	1	2									
Aniline Dyes																									
Aniline Hydrochloride,		1	2		3					1	1	2			1										
Aniline Sulphate																									
Animal Oil																									
Anthranilic Acid																									
Anthraquinone		1			1					1															
Anthraquinone Sulfonic		1			1					1															
Antimony Trichloride		1	1	1	1					1	1	1			1	1	1				2				
Aqua Regia		1	2	2	2	2	2	2	2	2	3	3	3	3	3	2						3			
Arachidic Acid																									
Argon, Dry																									
Aromatic Fuel, 50%																									
Aromatic Hydrocarbons		3			3																				
Arsenic Acid, 80%		1	1	2	1	2	2	2	2	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1
Arsenic Trioxide (Powder)		1																							
Arylsulfonic Acid		1																							
Ascorbic Acid																									
Askarel																									
Asphalt		3			3					1					1										
ASTM Oil, No. 1		1																							
ASTM Oil, No. 2		1																							
ASTM Oil, No. 3		1																							
Atropine Sulfate																									
Aurex 903R (Mobile)																									
Automatic Transmission																									
Automotive Brake Fluid		2								1													3		
Bardol B																									
Barium Acetate, Sat'd																									

1 - High Resistance

2 - Limited Resistance

3 - No Resistance

## CHEMICAL RESISTANCE CHART

Chemicals	HDPE			X-PE					EPDM					FPM (FKM)						BUNA-N	SBR	
	Temp. °C °F	20 68	40 104	60 140	20 68	40 104	60 140	80 176	100 212	20 68	40 104	60 140	80 176	100 212	20 68	40 104	60 140	80 176	100 212	120 248	20 68	20 68
Ammonium Phosphate									1	1	1	1		1	1	1	1	1	1		1	
Ammonium Potassium	1				1				1					1							1	
Ammonium Sulfamate		1																				
Ammonium Sulfate	1		1						1	1	1	1		1	1	1	1	1	1		1	1
Ammonium Sulfide, Dilute	1		1						1					1							1	1
Ammonium Sulfocyanide	1																					
Ammonium Tartarate																						
Ammonium Thiocyanate,	1														1						1	
Ammonium Thioglycolate	2																					
Amonia Acetate, Sat'd	1																					
Amonia Gas	1																					
Amonia Liquid	1																					
Amyl Acetate	1		1						2	3	3			1	2	3	3	3	3	3	3	
Amyl Alcohol, Pure	1		1						1	1	1			2						2	1	
Amyl Borate									3					3						1	3	
Amyl Chloride		2							3					1						3	3	
Amyl Chloronaphthalene									3					1						3	3	
Amyl Naphthalene									3					1						3	3	
Amyl Phthalate	1																					
Ang-25 (Glyceral Ester)									1					1						2	1	
Aniline	1		1						1					1	2	2				3	3	
Aniline Chlorohydrate														1	2							
Aniline Dyes									2					2						3	1	
Aniline Hydrochloride	1		1						1	1	1	1	1	2						3	2	
Aniline Sulphate	2																					
Animal Oil									2					1						1	3	
Anthranilic Acid	1																					
Anthraquinone																						
Anthraquinone Sulfonic	1													1								
Antimony Trichloride	1		1						1					1						1		
Aqua Regia	3		3						1	1	1	1	1	2						3	3	
Arachidic Acid		1																				
Argon, Dry									1					1								
Aromatic Fuel, 50%									3					1						2	3	
Aromatic Hydrocarbons																						
Arsenic Acid, 80%	1		1						1	1	1	1		1	1	1	1	1	1	1	1	
Arsenic Trioxide (Powder)	2		1																		1	
Arylsulfonic Acid	1																					
Ascorbic Acid		1																				
Askarel									3					1						2	3	
Asphalt	3								3					1						2	3	
ASTM Oil, No. 1									3					3						1	3	
ASTM Oil, No. 2									3					1						1	3	
ASTM Oil, No. 3									3					1						1	3	
Atropine Sulfate	1																					
Aurex 903R (Mobile)									3					1						1	3	
Automatic Transmission									3					1						1		
Automotive Brake Fluid	1									1				3						1		
Bardol B									3					1						3	3	
Barium Acetate, Sat'd									1					1						1	1	

1 - High Resistance

2 - Limited Resistance

3 - No Resistance

## CHEMICAL RESISTANCE CHART

Chemicals	PVC			CPVC					PP					PVDF						ABS						
	Temp.	°C	20 68	40 104	60 140	20 68	40 104	60 140	80 176	100 212	20 68	40 104	60 140	80 176	100 212	120 248	20 68	40 104	60 140	80 176	100 212	120 248	20 68	40 104	60 140	
Barium Bromide																										
Barium Carbonate, Sat'd	1	1	1	1	1						1	1	1				1	1	1				1	1		
Barium Chloride, Sat'd	1	1	1	1	1						1	1	1				1	1	1				1	1		
Barium Cyanide																										
Barium Hydroxide, 10%	1	1	1	1	1						1	1	1				1	2								
Barium Hydroxide, Sat'd	1	1	1	1	1						1	1	1				1	2					1	1		
Barium Nitrate, Sat'd	1				1						1						1						1			
Barium Sulfate, Sat'd	1	1	1	1	1						1	1	1				1	1	1				1	1	1	
Barium Sulfide, Sat'd	1	1	1	1	1						1						1	1	1				1	1	1	
Bayol 35																										
Bayol D																										
Beer	1	1	1	1	1						1	1	1				1	1	1	1			1	1	1	
Beet Sugar Liquors	1				1						1						1									
Benzal Chloride																										
Benzaldehyde	3	3	3	3	3						3	3	3				1	2					3	3		
Benzaldehyde, 1%																										
Benzaldehyde, 10%	1				1						1						1						3			
Benzaldehyde, >10%	3																									
Benzaldehyde, 10%																										
Benzaldehyde, 5%																										
Benzalkonium Chloride	1																									
Benzamide																										
Benzene	3	3	3	3	3						2	3	3				1	2	2				3	3	3	
Benzene Sulfonic Acid, Sat'd	3	3	3	3	3	3	3	3	3	3	1	1	1	3	3		1	1	1							
Benzene Sulfonic Acid, 10%	3	3	3	3	3	3	3	3	3	3	1	2	3				2	1	2							
Benzenesulfonic Acid	3				3						3						2									
Benzenesulfonic Acid, 10%	1				1						1						1									
Benzine	1	1	1	1	1						2						1	1	1	1	1	1	1			
Benzochloride																										
Benzoic Acid, All	1	1	2	1	2						1	1	1	1	1		1	1	1	1	1	1	1	1		
Benzoic Acid Crystals																										
Benzoic Sulfimide																										
Benzophenone																										
Benzotrichloride																										
Benzotrifluoride																										
Benzoyl Benzoic Acid																										
Benzoyl Chloride																										
Benzyl Acetate																										
Benzyl Alcohol	2			1							1	1	2				1	1	2				3	3		
Benzyl Alcohol, 1,5%																										
Benzyl Benzoate																										
Benzyl Chloride						1																				
Beryllium Sulfate																										
Bismuth Carbonate	1				1						1						1									
Black Liquor	1				1						1						1									
Black Point 77																										
Blast Furnace Gas																										
Bleach, 12% Active Cl2				1							1						1									
Bleach, 5% Active Cl2	1			1							1						1									
Bleach Liquor																										

1 - High Resistance

2 - Limited Resistance

3 - No Resistance

## CHEMICAL RESISTANCE CHART

Chemicals	HDPE			X-PE					EPDM					FPM (FKM)						BUNA-N		SBR	
	Temp.	20 °C 68 °F	40 °C 104 °F	60 °C 140 °F	20 °C 68 °F	40 °C 104 °F	60 °C 140 °F	80 °C 176 °F	100 °C 212 °F	20 °C 68 °F	40 °C 104 °F	60 °C 140 °F	80 °C 176 °F	100 °C 212 °F	20 °C 68 °F	40 °C 104 °F	60 °C 140 °F	80 °C 176 °F	100 °C 212 °F	120 °C 248 °F	20 °C 68 °F	20 °C 68 °F	
Barium Bromide		1																					
Barium Carbonate, Sat'd		1			1					1					1						1		1
Barium Chloride, Sat'd		1		1			1		1						1						1		1
Barium Cyanide			1																				
Barium Hydroxide, 10%							1								1								
Barium Hydroxide, Sat'd		1		1			1								1						1		
Barium Nitrate, Sat'd		1		1			1								1						1		1
Barium Sulfate, Sat'd		1		1			1								1						1		1
Barium Sulfide, Sat'd		1		1			1								1						1		1
Bayol 35							3								1						1		3
Bayol D								3							1						1		3
Beer		1		1						1					1						1		1
Beet Sugar Liquors		1								1					1						1		1
Benzal Chloride			3																				
Benzaldehyde		3		3						1	1				3	3					3	3	
Benzaldehyde, 1%		1																					
Benzaldehyde, 10%		1								1					3						3	3	
Benzaldehyde, >10%																							
Benzaldehyde, 10%		1																					
Benzaldehyde, 5%		1																					
Benzalkonium Chloride		2																					
Benzamide			1																				
Benzene		2		3						3	3	3			1	2					3	3	
Benzene Sulfonic Acid, Sat'd	1	1	2	1	1					3					1	1	1				2	3	
Benzene Sulfonic Acid, 10%	3			1						3					1						3	3	
Benzenesulfonic Acid	1			1						3					1						3		
Benzenesulfonic Acid, 10%	1									3					1						3	3	
Benzine										3					1	1	1				1	3	
Benzochloride										1					1						3	3	
Benzoic Acid, All	1			1						1	3				1	1	1	1	2		3	3	
Benzoic Acid Crystals	1																						
Benzoic Sulfimide			1																				
Benzophenone										1					1							3	
Benzotrichloride			3																				
Benzotrifluoride			3																				
Benzoyl Benzoic Acid			1																				
Benzoyl Chloride			2																				
Benzyl Acetate		2																					
Benzyl Alcohol	1									2					1						3	3	
Benzyl Alcohol, 1,5%	2																						
Benzyl Benzoate															1						3		
Benzyl Chloride			3							3					3						3		
Beryllium Sulfate			1																				
Bismuth Carbonate	1		1							1					1						1		
Black Liquor	1		1	1						2					1					2		1	
Black Point 77										1					1						1	2	
Blast Furnace Gas										3					1						3	3	
Bleach, 12% Active Cl2										1					1						3	3	
Bleach, 5% Active Cl2										1					1						3		
Bleach Liquor										1					1						3	3	

1 - High Resistance

2 - Limited Resistance

3 - No Resistance

## CHEMICAL RESISTANCE CHART

Chemicals	PVC			CPVC					PP					PVDF						ABS			
	Temp.	°C	20 40 60	20	40	60	80	100	20	40	60	80	100	20	40	60	80	100	120	20	40	60	
			68 104 140	68	104	140	176	212	68	104	140	176	212	68	104	140	176	212	248	68	104	140	
Blood																							
Borax, Sat'd		1	1	2	1				1	1	1	1	1	1	1	1	1	1	1	2			
Bordeaux Mixture																							
Boric Acid, 10%		1		2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
Boric Acid, Sat'd		1		2	1				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Boron Fluids (HEF)																							
Boron Trifluoride																							
Brake Fluid																							
Brine, Sat'd		1	1	1	1	1			1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Brom-113																							
Brom-114																							
Bromic Acid		1			1				3					1									
Bromic Acid, 10%		1		1	1	1	1	1						1	1	1	1	1	1	1	1	1	1
Bromine, Aqueous																							
Bromine Liquid		3	3	3	3	3	3	3	3	3	3	3	3	1	1	1	1	1	1	3	3		
Bromine Pentafluoride																							
Bromine Trifluoride																							
Bromine Vapor, 25%		1			1				3					1						3			
Bromine Water cold, Sat'd		3												1						3			
Bromoacetic Acid																							
Bromobenzene																							
Bromobutyric-2 Acid																							
Bromochloro																							
Bromoform																							
Bromosalicylic Acid, Sat'd																							
Bromotoluene		3												1									
Bunker Oil																							
Butadiene		1	1	1					1	1	1			1	1	1	1	1	1				
Butadiene, 50%		1			1				3					1									
Butadiene Gas		1			1				1					1						3			
Butanane-2,4-p-Methoxy																							
Butane, 50%		1			1				1					1						1			
Butane, Gas		1			1				1					1									
Butter - Animal Fat																				1			
Butyl Acetate		3	3	3	3	3	3	3	2					1	2					3	3		
Butyl Acetyl Ricinoleate																							
Butyl Acrylate Pure		3			3				3					1									
Butyl Alcohol		1	2	1	1				1	1	2			1	1	1	2		2				
Butyl Benzoate														1									
Butyl Bromide														1									
Butyl Butyrate																							
Butyl Carbitol																							
Butyl Cellosolve														1									
Butyl "Cellosolve" Adipate																							
Butyl Chloride			3																	3			
Butyl Ether		3		3					3					1						3			
Butyl Glycolate																							
Butyl Mercaptan														1									
Butyl Oleate																							
Butyl Phenol		2	2	1					3	3				1	1								

1 - High Resistance

2 - Limited Resistance

3 - No Resistance

## CHEMICAL RESISTANCE CHART

Chemicals	HDPE			X-PE					EPDM					FPM (FKM)						BUNA-N	SBR	
	Temp. °C 68	20 68	40 104	60 140	20 68	40 104	60 140	80 176	100 212	20 68	40 104	60 140	80 176	100 212	20 68	40 104	60 140	80 176	100 212	120 248	20 68	20 68
Blood															1						1	
Borax, Sat'd	1		1			1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1
Bordeaux Mixture						1					1										2	1
Boric Acid, 10%	1					1	1	1	1	1	1											
Boric Acid, Sat'd	1		1			1	1	1	1	1	1										2	1
Boron Fluids (HEF)						3					1										2	3
Boron Trifluoride	2																					
Brake Fluid						1					3											1
Brine, Sat'd						1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Brom-113						3																3
Brom-114						3					2										2	3
Bromic Acid		1				2					1											
Bromic Acid, 10%																						
Bromine, Aqueous		1																				
Bromine Liquid	3	3				3					1										3	3
Bromine Pentafluoride						3					3										3	3
Bromine Trifluoride						3					3										3	3
Bromine Vapor, 25%	1					3					1										3	3
Bromine Water cold, Sat'd	3					3					1											
Bromoacetic Acid		1																				
Bromobenzene	3					3					1										3	
Bromobutyric-2 Acid	2																					
Bromochloro						3					1										3	
Bromoform	3	3																				
Bromosalicylic Acid, Sat'd	1																					
Bromotoluene	3										1											
Bunker Oil							3				1									1	3	
Butadiene		1				2					2											
Butadiene, 50%	1					3					1									3	3	
Butadiene Gas						3					1									3	3	
Butanane-2,4-p-Methoxy	3																					
Butane, 50%	1	1				3					1									1	2	
Butane, Gas											1											
Butter - Animal Fat						1					1									1	3	
Butyl Acetate		1				1					2				3					3	3	
Butyl Acetyl Ricinoleate						1					1				2					2	3	
Butyl Acrylate Pure						3					3				3					3	3	
Butyl Alcohol	1	1				2				1	1			2					1	1		
Butyl Benzoate						1					1				1					3	3	
Butyl Bromide																						
Butyl Butyrate						1					1				1					3		
Butyl Carbitol						1					1				1							
Butyl Cellosolve		1				2					3				3					3		
Butyl "Cellosolve" Adipate						2					2				2					3		
Butyl Chloride	3										1				1							
Butyl Ether		1									3				3							
Butyl Glycolate		1																				
Butyl Mercaptan																						
Butyl Oleate							2				2				1					3		
Butyl Phenol	1		2								2				2							

1 - High Resistance

2 - Limited Resistance

3 - No Resistance

## CHEMICAL RESISTANCE CHART

Chemicals	PVC			CPVC					PP					PVDF						ABS		
	Temp.	°C	20 68	40 104	60 140	20 68	40 104	60 140	80 176	100 212	20 68	40 104	60 140	80 176	100 212	120 248	20 68	40 104	60 140	20 68	40 104	60 140
Butyl Phthalate	3		3																			
Butylamine, Sat'd																						
Butylene, Liquid	2															2						
Butyric Acid	1										1	1	2									
Butyric Acid, pure	1										1	1	2				1	1	1	1	2	
Calcium Bisulfide	1	1	1	1	1						1	1	1				1	1	1	1	1	
Calcium Bisulfite	1	1	1	1	1						1	1	1				1	1	1	1	1	
Calcium Carbonate	1	1	1	1	1	1	1	1			1	1	1				1	1	1	1	1	
Calcium Chlorate	1	1	1	1	1						1						1	1	1	1	1	
Calcium Chloride, Sat'd	1	2	1								1	1	1	2			1	1	1	1	1	
Calcium Hydroxide, 30%	1	1	1	1							1	1	1				1	2	2			
Calcium Hydroxide, Sat'd	1	1	1								1	1	1	1	1	2						
Calcium Hypochlorite	2										1	1					1	1	1	2	1	
Calcium Nitrate, Sat'd	1	1	1	1	1	1					1						1	1	1	1	1	
Calcium Sulfate	1	1	1	1							1						1	1	1	1	1	
Calcium Sulfide, Sat'd	1	1	1	1							1						1	1	1	1	1	
Camphor Oil	1										3	3	3				1	1	1	3	3	
Carbon Dioxide, Pure Anhydrous	1	1	1	1	1	1	1				1	1	1	1			1	1	1	1	1	
Carbon Dioxide, Pure Moist	1	1	1	1	1	1	1				1	1	1	1			1	1	1	1	1	
Carbon Disulfide	2	3	3	3	3	3					1	3	3	3			1	1	1	1	3	
Carbon Monoxide, Gas	1	1	1	1							1	1	1				1	1	1			
Carbon Tetrachloride	2	3	1								3	3	3				1	1	1	3	3	
Carbonic Acid, Sat'd	1	1	1	1							1	1	1				1	1	1			
Caustic Potash, 50%	1	1	2								1	1	1	1	1							
Caustic Soda, 10%	1	1	2								1	1	1	1	1							
Caustic Soda, 50%	1	1	1								1	1	1	1	1							
Caustic Soda, up to 40%	1	1	2								1	1	1	1	1							
Chloral Hydrate, All											2											
Chloramine (Diluted)	1		1								1						1					
Chloric Acid, 10%	1	1	2								1						1	1				
Chloric Acid, 20%	1	1	2	1							1	3	3	3			1	1	1	1	1	
Chlorinated Water, 0.3% (Sat'd)	1	1	1	1	1	1	1				2						2					
Chlorine, Liquid	3										3	3	3				1	1	1	3	3	
Chloroacetic Acid, 50%	1	1	2								1	1	1									
Chlorobenzene, Dry	3	3	3	3	3						3	3	3				1	2		3	3	
Chloroform, Dry	3	3		3	3	3	3	3			2	3	3	3			1	1	1	3	3	
Chlorosulfonic Acid	2	3									3	3	3	3	3		2	3	3			
Chrome Alum	1	1	2	1	1	1	1	1	1		1	1	1	2			1	1				
Chromic Acid, 10%	1	2	1	1	1	1	1	1	1		1	2	3	1	1	1	3	2	3			
Chromic Acid, 30%	1	2	1	1	1	1	1	1	1		2	3	3	3	1	1	2	3	3	3		
Chromic Acid, 50%	1	1	2	1							2	3	3	3	3		1	1	1	2	3	
Cider	1		1								1						1	1	1			
Coconut Oil	1	1	2								1	1	1				1	1	1	1	1	
Compressed Air	2										2						1	1	1			
Copper Chloride, Sat'd	1	1	1	1	1	1	1	1	1		1	1	1				1	1	1	1	1	
Copper Cyanide	3	3	3	1							1	1	1				1	1	1	1	1	
Copper Fluoborate	1	1	1	1							3	3	3				1	1	1	1	1	
Copper Nitrate, 30%	1	2	1								1	1	1				1	1	1	1	1	
Copper Salts	1	1	2								1	1	2				1	1	1	1	1	

1 - High Resistance

2 - Limited Resistance

3 - No Resistance

## CHEMICAL RESISTANCE CHART

Chemicals	HDPE			X-PE					EPDM					FPM (FKM)						BUNA-N	SBR	
	Temp. °C °F	20 68	40 104	60 140	20 68	40 104	60 140	80 176	100 212	20 68	40 104	60 140	80 176	100 212	20 68	40 104	60 140	80 176	100 212	120 248	20 68	20 68
Butyl Phthalate																						
Butylamine, Sat'd																						
Butylene, Liquid										2								1				
Butyric Acid																						
Butyric Acid, pure										2							2					
Calcium Bisulfide										1							1					
Calcium Bisulfite										1							1					
Calcium Carbonate										1							1					3
Calcium Chlorate																	1					
Calcium Chloride, Sat'd										1							1	1	1	1	1	1
Calcium Hydroxide, 30%										1							1					
Calcium Hydroxide, Sat'd										1	1	1	1				1	1	1	1	1	1
Calcium Hypochlorite										1							1					3
Calcium Nitrate, Sat'd																						
Calcium Sulfate										1							1					
Calcium Sulfide, Sat'd										1												1
Camphor Oil																	1					
Carbon Dioxide, Pure Anhydrous	1	1	1	1	1	1				1	1	1	1	2			1	1	1	1	1	1
Carbon Dioxide, Pure Moist	1	1	1	1	1	1				1	1	1	1	2			1	1	1	1	1	1
Carbon Disulfide										3	3	3	3	3			1					3
Carbon Monoxide, Gas										3	3	3	3	3			1					1
Carbon Tetrachloride										3							1	1	1			3
Carbonic Acid, Sat'd																						1
Caustic Potash, 50%										1	1	1	2									1
Caustic Soda, 10%										1	1	1					2	2	2			1
Caustic Soda, 50%										1	1	1					2					
Caustic Soda, up to 40%										1	1	1					2					
Chloral Hydrate, All											2						2					
Chloramine (Diluted)											1						1					
Chloric Acid, 10%										1	1	1										
Chloric Acid, 20%										1	1	1	1	1			1		3			
Chlorinated Water,0.3%(Sat'd)	1	1	1	1	1	1	1	1	1	1							1				1	1
Chlorine, Liquid										3							1					
Chloroacetic Acid, 50%										2												3
Chlorobenzene, Dry										3	3	3					1					3
Chloroform, Dry										3	3	3	3	3			2					3
Chlorosulfonic Acid										3	3	3					2					3
Chrome Alum										1	1	1	1	1			1	1	1	1	1	1
Chromic Acid, 10%										1							1					3
Chromic Acid, 30%										1		3		3			1					
Chromic Acid, 50%										2	2	2					1	1	1			3
Cider	1									1							1					
Coconut Oil																	1	1	1			3
Compressed Air	1	1															1					
Copper Chloride, Sat'd										1							1					1
Copper Cyanide																						1
Copper Fluoborate																	1					
Copper Nitrate, 30%										1							1	1	1			
Copper Salts	1	1	1							1	1	1	1	1			1	1	1			1

1 - High Resistance

2 - Limited Resistance

3 - No Resistance

## CHEMICAL RESISTANCE CHART

Chemicals	Temp.	PVC			CPVC					PP					PVDF						ABS												
		20 °F	40 68	60 104	20 °F	40 68	60 104	80 140	100 176	20 °F	40 68	60 104	80 140	100 176	20 °F	40 68	60 104	80 140	100 176	120 212	20 °F	40 68	60 104	100 140									
Copper Sulfate, Sat'd		1	1	1	1	1	1			1	1	1			1	1	1				1	1	1										
Cottonseed Oil		1	1	1	1					1	1	1			1	1	1				1	1	1										
Creosols		2	3	2	3					1					1	1	1				1	1	1										
Creosolic Acid		2	3	1											1			2															
Cresol, 50%		2	3	2	3					1					1	1	1				1	1	1										
Cresol, 90%		3	3	3	3	3	3			2					1	1	1				3												
Cyclohexane		3	3	3	3	3	3			1	2				1	1	1	1	2														
Cyclohexanol		1	1	1						1	1	2			1	1	2	2															
Cyclohexanone		3	3	3	3	3	3	3		1	2	3	3	3	1	2	2		3		3	3	3										
Decahydronaphthalene		1	1	1						3	3	3			1	1	1																
Detergent, Water Solution		1	1	2						1	1	1	1		1	1	1	1	1														
Di(Butoxyethyl) Phthalate		3	3	3	3	3	3			3	3				1							3											
Dibutyl Phthalate										1	2	2			1	1	2																
Dibutyl Sebacate										1					1																		
Dichloro Ethane		3	3	3	3					1					1	1	1				3	3	3										
Dichlorobenzene										2					1	1	1	2															
Dichloroethylene		3	3	3						2					1	1	1																
Diethyl Ether		3	3	3	3	3	3			1	1	1			1		3																
Diglycolic Acid, Sat'd		1	1	2						1	1	1			1																		
Diisobutyl Ketone										1					1	1	2																
Dimethylamine		2	3							1	2				2	3																	
Dimethylformamide		2								1					2																		
Dinonyl Phthalate										1																							
Diocyl Phthalate		3	3	3						1	2	2																					
Dioxane										2	2	2																					
Ethers		3	3	3	3	3	3	3		3	3	3																					
Ethyl Acetate		3	3	3	3	3	3	3	3	1	2	2	3	3	2	2	2	3		3	3	3											
Ethyl Alcohol		1	1	2	1					1	1	1	1	1	1	1	1	1	1	1	1	3	3	3									
Ethyl Benzene										2					1																		
Ethyl Ether		3	3	3	3	3	3			3	3	3			1																		
Ethylene Chloride										2					1	1	1	1	2														
Ethylene Chlorhydrin		3	3	3	3	3	3								1	2		3															
Ethylene Diamine		2								1					2	2																	
Ethylene Glycol, 100%		1	1	1	3					1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1						
Ethylene Glycol, 50%										1	1	1	1	1																			
Ethylene Oxide										2					1	1	1	2															
Fatty Acids		1	1	1	1	1	1			1	1	1			1	1	1	1			1	1	1										
Fatty Alcohol Sulfamate		1	1	2						1	1	2			1	1	1	1	1	1													
Ferric Chloride		1	2	1						1	1	1			1	1	1				1	1	1										
Ferric Chloride, Sat'd		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1										
Ferric Nitrate, Sat'd		1	1	1	1										1	1	1				1	1	1										
Ferric Sulfate		1	1	1	1					1					1	1	1				1	1	1										
Ferrous Chloride, Sat'd		1	1	1	1	1	1	1		1					1	1	1				1	1	1										
Ferrous Sulfate		1	1	1	1					1					1	1	1				1	1	1										
Fluorine Gas (Dry), 100%		2	3							3	3	3			1																		
Fluosilicic Acid, 30%		1	1	1	1	1	1	1	1	1	1	1			1	1	1	1	1	1		3											
Formaldehyde		1	2	1						1	1	1			1	1	1	1	1	1	1	1	1	1	1								
Formamide										1	1	1																					
Freon 12, 100%		1													2																		
Fruit Juice, Pure		1	1	1						1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1								

1 - High Resistance

2 - Limited Resistance

3 - No Resistance

## CHEMICAL RESISTANCE CHART

Chemicals	HDPE			X-PE					EPDM					FPM (FKM)						BUNA-N	SBR	
	20 °C 68	40 °C 104	60 °C 140	20 °C 68	40 °C 104	60 °C 140	80 °C 176	100 °C 212	20 °C 68	40 °C 104	60 °C 140	80 °C 176	100 °C 212	20 °C 68	40 °C 104	60 °C 140	80 °C 176	100 °C 212	120 °C 248	20 °C 68	20 °C 68	
Copper Sulfate, Sat'd									2					1	1	1						1
Cottonseed Oil									1					1	1	1						
Creosols									3	3	3			1								3
Creosytic Acid										2				1	1	1						3
Cresol, 50%									3	3	3			1								3
Cresol, 90%									3	3	3			2								
Cyclohexane	1	1	1						3	3	3			1								3
Cyclohexanol	1	1	1											1								3
Cyclohexanone	1	2	2						3	3	3	3	3									
Decahydronaphthalene									3	3	3			1								3
Detergent, Water Solution	1	1	1	1						1	1	1		1	1	1						
Di(Butoxyethyl) Phthalate										1				2								1
Dibutyl Phthalate	1	2	2							2				2								3
Dibutyl Sebacate	1									1				1								3
Dichloro Ethane														3								
Dichlorobenzene	2													1								3
Dichloroethylene										1				1								
Diethyl Ether											1			1								3
Diglycolic Acid, Sat'd	1	1	1							1				1	1	1						
Diisobutyl Ketone	1									2												
Dimethylamine										3				2								
Dimethylformamide	1		2							2												3
Dinonyl Phthalate	2									2				1								
Diocyl Phthalate	2									2				1								3
Dioxane	1	1	1							1												3
Ethers										2	3											3
Ethyl Acetate	1	2	2							1	3	3	3	3	3	3	3					3
Ethyl Alcohol	1	1	1							1	1	1	1	1	1	1	1	1	1	1	1	
Ethyl Benzene														2								3
Ethyl Ether										2	3			3	3	3						3
Ethylene Chloride	2									2	2			1	1	2						1
Ethylene Chlorhydrin										3	3											1
Ethylene Diamine	1	1	1							1	1	1			2	2						
Ethylene Glycol, 100%	1	1	1	1						1	1	1			1	1	1	2				1
Ethylene Glycol, 50%																						1
Ethylene Oxide										2												3
Fatty Acids													1									3
Fatty Alcohol Sulfamate	1	1	1							1	1	1		1	1	1	1					
Ferric Chloride										1	1	1		1								
Ferric Chloride, Sat'd										1	1	1	1	1	1	1						1
Ferric Nitrate, Sat'd																						1
Ferric Sulfate										1				1								1
Ferrous Chloride, Sat'd										1												
Ferrous Sulfate										1				1								
Fluorine Gas (Dry), 100%																						
Fluosilicic Acid, 30%										2				1								
Formaldehyde										1				1			3					2
Formamide	1	1	1							1				1								
Freon 12, 100%										2				2								1
Fruit Juice, Pure	1	1	1							1	1	1	1	1	1	1	1	1	1			

1 - High Resistance

2 - Limited Resistance

3 - No Resistance

## CHEMICAL RESISTANCE CHART

Chemicals	Temp.	PVC			CPVC					PP					PVDF						ABS			
		20 °C 68	40 °C 104	60 °C 140	20 °C 68	40 °C 104	60 °C 140	80 °C 176	100	20 °C 68	40 °C 104	60 °C 140	80 °C 176	100 °C 212	120 °C 248	20 °C 68	40 °C 104	60 °C 140	80 °C 176	100 °C 212	120 °C 248	20 °C 68	40 °C 104	60 °C 140
Furfuryl Alcohol					1		2			1	1	2												
Gasoline	1	1	2	3	3	3	3	3	3	3	3	3	3	3	3	1	1	1	1	1	1	3	3	3
Gelatin	1	1	1	1	3					1	1	1				1	1	1	1	1				
Glucose	1	1	2	1						1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Glycerine	1	1	1							1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Glycine, Aqueous	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Glycolic Acid, Sat'd	1									1						1	1	1	1	1				
Heptane	1	2	1							1	2					1	1	1	1	1	1	1		
n-Hexane	1	2	1							1	2					1	1	1	1	1	1			
Hydrazine Hydrate	1									1	1	1												
Hydrobromic Acid, 50%	1	1	1							1	1	1				1	1	1	1	1	1			
Hydrochloric Acid, 10%	1	1	2							1	1	2	2			1	1	1	1	1	1			
Hydrochloric Acid, 25%	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	
Hydrochloric Acid, 36%	1	1	2							1	2					1	1	1	1	1	1			
Hydrochloric Acid, 37%	1	1	1	2	1	1	1	1	1	1	1	1	2	2	2	1	1	1	1	1	1	1	3	
Hydrocyanic Acid	1	1	2							1	1	1				1	1	1	1	1	1			
Hydrofluoric Acid, 10%	1	2	1	2						1	1	1	3	3	3	1	1	1	1	1	1	3	3	3
Hydrofluoric Acid, 60%	2	3	1	2						1	3	3	3	3	3	1	1	1	1	1	1	3	3	3
Hydrogen Peroxide, 30%	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Hydrogen Sulfide, Dry	1	2								1	1	1				1	1	1						
Hydroxylamine Sulfate	1	1	1							1	1	1				1	1	1						
Iodine										1						1	1	1						
Isobutane	1									2	3					1	1	1						
Isooctane	1									1	2					1	1	1	1	1	1			
Isopropyl Acetate	1									1	1	1	1	1	1	1	1	1	1	2				
Isopropyl Alcohol		2								1	1	1				1								
Isopropyl Ether	2	3								2	3					1	1	1						
Lactic Acid, 10%	1	2								1	1	1	1	1	1	1	1	2	2					
Lanolin	1	2								1	1	1				1	1	1	1	1	1	1	1	1
Lead Acetate, Sat'd	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	1	1	1	1	1	1			
Linseed Oil	1	1	2	1						1	1	1	1	1	1	1	1	1	1	1	1	1	3	
Liqueurs	1	1								1						1	1	1	1	1				
Magnesium Carbonate	1	1	1	1						1	1	1				1	1	1				1	1	1
Magnesium Chloride, Sat'd	1	1	1	1	1	1	1	1	1	1	1	1	2			1	1	1	1	1	1	1	1	1
Magnesium Hydroxide	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Magnesium Nitrate	1	1	1	1	1					1	1	1				1	1	1				1	1	1
Magnesium Salts	1	1	2							1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Malic Acid	1			1						1	1					1	1	1						
Mercuric Chloride, Sat'd	1	1	1	1	1					1	1	1				1	1	1						
Mercuric Cyanide, Sat'd	1	1	1	1	1					1	1	1				1	1	1						
Mercurous Nitrate, Sat'd	1	1	1	1	1					1	1	1				1	1	1						
Mercury	1	1	1	1	1					1	1	1				1	1	1						
Mercury Salts	1	1	2							1	1	1				1	1	1	1	1	1	1	1	1
Methane	1									1						1	1	1						
Methyl Acetate										1	1	1				1	2					3	3	3
Methyl Alcohol	1	1	1	1	1					1	2		2	2		1	1	1	1	1		3	3	3
Methyl Amine	2	3								1	2					2								
Methyl Bromide	3									3	3	3				1	1	1						
Methylene Chloride	3	3	3	3	3	3				3	3	3	3	3		1	2		3					
Methylsulfuric Acid	1	2	1							3	3	3	3	3										

1 - High Resistance

2 - Limited Resistance

3 - No Resistance

## CHEMICAL RESISTANCE CHART

Chemicals	HDPE			X-PE					EPDM					FPM (FKM)						BUNA-N	SBR						
	Temp. °C 68	20 104	40 140	20 68	40 104	60 140	80 176	100 212	20 68	40 104	60 140	80 176	100 212	20 68	40 104	60 140	80 176	100 212	120 248	20 68	20 68						
Furfuryl Alcohol	1	1	1						2																		
Gasoline	1	1	1						3	3	3	3	3	1	1	1	1	1	1	1	1	3					
Gelatin	1	1	1						1	1				1	1							1					
Glucose									1	1	1	1		1	1	1	1	1				1					
Glycerine	1	1	1						1	1	1	2	2	1	1	2						1					
Glycine, Aqueous									1					1	1	1	1	1									
Glycolic Acid, Sat'd	1	1	1						1					1													
Heptane	1		2						1	1	1			1	1	1						3					
n-Hexane	1		2						3					1	1	1						3					
Hydrazine Hydrate	1	1	1						1					1													
Hydrobromic Acid, 50%	1	1	1						1	1	2			1	1	1	1	2									
Hydrochloric Acid, 10%	1	1	1						1	1	1	1		1	1	1	1										
Hydrochloric Acid, 25%									1	1	1	3		1	1	1	1	1									
Hydrochloric Acid, 36%	1	1	1						1	1	1	1		1	1	1	1	1									
Hydrochloric Acid, 37%									1	2	3			1			2				1						
Hydrocyanic Acid	1	1	1						1	2				1	2												
Hydrofluoric Acid, 10%									1	3				1													
Hydrofluoric Acid, 60%									2					1			2										
Hydrogen Peroxide, 30%	1	1	1						2					1	1	2											
Hydrogen Sulfide, Dry									1					1								1					
Hydroxylamine Sulfate	1	1	1						1	1				1	1						3						
Iodine	1		2						1					1							1						
Isobutane														3	3	3											
Isooctane	1		2											1													
Isopropyl Acetate	1	1	1						1	1	1	2		1	1	1	2				3						
Isopropyl Alcohol														1	1	1					1						
Isopropyl Ether	2													3	3	3					3						
Lactic Acid, 10%	1	1	1						2	2	2			1	2	2	2										
Lanolin	1	1	1						2					1	1	1											
Lead Acetate, Sat'd	1	1	1						1	1	1			1	1	1	1	1									
Linseed Oil	1	1	1						2					1	1	1	1	1			3						
Liqueurs	1	1							1	1	1			1													
Magnesium Carbonate									1					1							1						
Magnesium Chloride, Sat'd									1					1							1						
Magnesium Hydroxide	1	1	1	1	1	1			1	1	1	1		1	1	1	1	1	1	1	1						
Magnesium Nitrate									1					1							1						
Magnesium Salts	1	1	1						1	1	1	1		1	1	1	1	1			1						
Malic Acid									3					1							1						
Mercuric Chloride, Sat'd																						1					
Mercuric Cyanide, Sat'd																											
Mercurous Nitrate, Sat'd																											
Mercury	1	1	1						1	1	1			1	1	1	1	1			1						
Mercury Salts	1	1	1						1	1	1			1	1	1	1	1			1						
Methane	1													1							3						
Methyl Acetate	1								2	3																	
Methyl Alcohol									1					2	2	2					1						
Methyl Amine	1								1					1													
Methyl Bromide	2													2													
Methylene Chloride	2													2								3					
Methylsulfuric Acid									1		3			2		3											

1 - High Resistance

2 - Limited Resistance

3 - No Resistance

## CHEMICAL RESISTANCE CHART

Chemicals	PVC			CPVC					PP					PVDF						ABS		
	Temp.	°C	20 68	40 104	60 140	20 68	40 104	60 140	80 176	100 212	20 68	40 104	60 140	80 176	100 212	120 248	20 68	40 104	60 140			
		°F																				
Milk	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Molasses	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Morpholine											1	1	1									
Naphtha	2	3	1								1	3										
Naphthalene											1											
Nickel Chloride, Sat'd	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Nickel Nitrate	1	1	1	1							1	1	1	2								
Nickel Sulfate, Sat'd	1	1	1	1							1	1	1									
Nitric Acid, 100%														2								
Nitric Acid, 40%	1	1	1	1	1	1	1	1	1	1	2	3	3	1	1	1	1	1	1	3	3	3
Nitric Acid, 60%	1	2	1	1	1	1	1	1	1	1	2	3	3	1	1	1	1	1	1	1	1	1
Nitric Acid, 65%	2	2													1	1	1	2				
Nitrobenzene	3	3	3	3	3	3					1	2								3	3	3
Oleic Acid	1	1	1	1							1	1	2							1	2	
Oleum																						
Olive Oil	1	1	2								1	1	1	1								
Oxygen Gas	1	1	1	1	1	1					3	3	3							1	1	1
Ozone	1	1	2	1							2	3	3									
Palmitic Acid	1										2				1	1	1	1	1	1		
Palmitic Acid, 10%	1	1	1	1								3				1	1	1				
Palmitic Acid, 70%	1	1	1	1								3				1	1	1				
Paraffin			2									1				1	1	1		2	2	2
Paraffin Emulsion	1	1	1	1							1	1	2				1	1	1	1	1	
Perchloric Acid, 10%	1	1	2								1	1	1				1	1	1	1	1	
Perchloric Acid, 70%	1	2									1						1	1	1	1	1	
Perchloroethylene											2				1	1	1	2	2			
Petroleum	1										1	2	2				1	1	1	1	1	1
Phenol, 90%	1	2									1	1	1				1	1	2			
Phenyl Hydrazine	3	3	3	3	3	3					2	2	2				1	1	1			
Phosgine Gas	1	2	2								2				1							
Phosgine Liquid											2											
Phosphoric Acid, 25%	1	2	1			2					1	1	1	1	1	1	1	1	1	1		
Phosphoric Acid, 30%	1	1	2								1	1	1	1			1	1	1	1	1	
Phosphoric Acid, 50%	1	1	1	1		2					1	1	1	1	1	1	1	1	1	1		
Phosphoric Acid, 85%	1	1	1	1		2					1	1	1	1	1	1	1	1	1	1		
Phosphorous Pentoxide	1	1									1						1	1	1	1	1	
Phosphorous Trichloride	3	3	3	3	3	3					1	2					1	1	1			
Phosphorus Oxychloride											1	2										
Phosphorus Pentachloride											1	2										
Potassium Bicarbonate	1	1	2								1	1	1	1	1	1	1	1	1	1		
Potassium Borate	1	1	2								1	1	1				1	1	1		1	1
Potassium Bromate	1	1	2	1							1	1	1	1	1	1	1	1	1	1		
Potassium Bromide	1	1	2								1	1	1				1	1	1	1	1	
Potassium Carbonate	1	1	1								1				1	2			1	1	1	
Potassium Chlorate	1	1	1								1	1	1		2							
Potassium Chloride	1	1	1								1	1	1	1	1	1	1	1	1	1		
Potassium Chromate	1	1	1								1	1	1		1	1	1	1	1	1		
Potassium Cyanide	1	1	1								1	1	1		1	2						
Potassium Ferricyanide	1	1	1	1							1	1	1	2	2	1	1	1	1	1	1	
Potassium Fluoride											1	1	1		1	1	1					

1 - High Resistance

2 - Limited Resistance

3 - No Resistance

## CHEMICAL RESISTANCE CHART

Chemicals	HDPE			X-PE					EPDM					FPM (FKM)						BUNA-N	SBR		
	Temp. °C 68	20	40	60	20	40	60	80	100	20	40	60	80	100	20	40	60	80	100	120	20	20	68
Milk										1					1								1
Molasses	1	1	1							1	1	1	1	1	1	1	1	1	1	1			
Morpholine	1	1	1							2					2								
Naphtha										3					1	1							3
Naphthalene	1		2												1	1	1						3
Nickel Chloride, Sat'd											1												1
Nickel Nitrate											1					1							1
Nickel Sulfate, Sat'd											1					1	1	1					1
Nitric Acid, 100%																							3
Nitric Acid, 40%											1			3		1		3					3
Nitric Acid, 60%											3	3	3	3	3	2	3	3	3	3			3
Nitric Acid, 65%	2															1	2						3
Nitrobenzene											3	3	3			2	3	3					3
Oleic Acid	1	1	2								2					1	2						3
Oleum																2							3
Olive Oil	1	1	2								2					1	1	1	1				
Oxygen Gas											1					1							3
Ozone	2										1	2				1	2						3
Palmitic Acid	2										2					1	2						1
Palmitic Acid, 10%											2					1	1	1					1
Palmitic Acid, 70%																	1						1
Paraffin																1							
Paraffin Emulsion	1	1	2													1	1	1	2				
Perchloric Acid, 10%	1	1	1								1	1	1	2		1	1	1	2				
Perchloric Acid, 70%	1	1	1								1	1	1	2		1	1	1	2				
Perchloroethylene	2															1	1	1					3
Petroleum	1	1	2																				
Phenol, 90%	1	1	2													1	2						
Phenyl Hydrazine	2											2				1	1	2					
Phosgene Gas	2											1	1	1		1	1	2					
Phosgene Liquid												1				1							
Phosphoric Acid, 25%											1	1	1	1	1	1	1	1	1	1			3
Phosphoric Acid, 30%	1	1	1								1	1	1	1	2	1	1	1	1	1			3
Phosphoric Acid, 50%	1	1	1								1	1	1	2	2	1	1	1	1	2			3
Phosphoric Acid, 85%	1	1	2								1	1	1	2		1	1	1	1	2			3
Phosphorous Pentoxide	1	1									1	1	1			1	1	1					
Phosphorous Trichloride																1							3
Phosphorus Oxychloride	1		2								1					1							
Phosphorus Pentachloride	1		2								1					1							
Potassium Bicarbonate	1	1	1								1	1	1			1	1	1					
Potassium Borate	1	1	1								1	1	1			1	1	1					
Potassium Bromate	1	1	2								1	1	1	1	1	1	1	1	1	1			1
Potassium Bromide	1	1	1								1	1	1	1	1	1	1	1	1	1			1
Potassium Carbonate																1							1
Potassium Chlorate	1	1	1								1	1	1	1		1	1	1	1	1			1
Potassium Chloride	1	1	1								1	1	1	1	1	1	1	1	1	1			1
Potassium Chromate	1										1	1	1			1	1	1					1
Potassium Cyanide	1	1	1								1	1	1	1		1	2						1
Potassium Ferricyanide											1					1	1	1	1	1			1
Potassium Fluoride																							1

1 - High Resistance

2 - Limited Resistance

3 - No Resistance

## CHEMICAL RESISTANCE CHART

Chemicals	PVC			CPVC					PP					PVDF						ABS							
	Temp.	20 °C 68 °F	40 °C 104 °F	60 °C 140 °F	20 °C 68 °F	40 °C 104 °F	60 °C 140 °F	80 °C 176 °F	100 °C 212 °F	20 °C 68 °F	40 °C 104 °F	60 °C 140 °F	80 °C 176 °F	100 °C 212 °F	120 °C 248 °F	20 °C 68 °F	40 °C 104 °F	60 °C 140 °F	80 °C 176 °F	100 °C 212 °F	120 °C 248 °F	20 °C 68 °F	40 °C 104 °F	60 °C 140 °F			
Potassium Iodide	1	1	1						1	1	1				1	1	1	1	1								
Potassium Nitrate	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Potassium Perborate	1	1	1	1					1						1	1	1										
Potassium Perchlorate	1	1	2					1	1	1					1	1	1	1	1								
Potassium Permanganate, Sat'd	1	1	2	1	1	1	2		1	1	2				1	1	1	1	1	1	1	1	1	1			
Potassium Permanganate, 10%	1	1	2	1	1	1	1		1	1	1	1			1	1	1	1	1	1	1						
Potassium Persulfate	1	1	2	1					1	1	1				1	1	1	1	1								
Potassium Sulfate	1	1	2						1	1	1				1	1	1	1	1	1	1	1	1	1	1		
Propane	1			1					1						1	1	1	1	1				1	1	1		
1-Propanol	1	2	2						1	1	1				1	1	1	2									
Propargyl Alcohol	1	1	1						1	1	1				1	2	2										
Propionic Acid, 50%	1	1	2						1	1	1				1	1	1										
Propyl Alcohol	1	2	1						1	1	1				1	1	1										
Propylene Oxide	2								1						1	2											
Pyridine	3	3	3	3	3	3	3		2	2	2				1	3											
Sea Water	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Silicic Acid	1	1	1	1					1	1	1				1	1	1										
Silicone Oil	1	1	3						1	1	1				1	1	1	1	1	1	1	1	1	1	1	1	
Silver Cyanide	1	1	1	1					1	1	1				1	1	1							1	1	1	
Silver Nitrate	1	2	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1		
Soaps	1	1	2	1					1	1	1				1	1	1	1	1	1	1	1	1	1	1	1	
Sodium Acetate, Sat'd	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2						
Sodium Benzoate	1	1	2						1	1	1				1	1	1	1	1	1	2						
Sodium Bicarbonate	1	1	1						1	1	1	1			1	1	1	1	1	1	2						
Sodium Bichromate, Sat'd	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Sodium Bisulfate	1	1	2						1	1	1				1	1	1	1	1	1	1						
Sodium Bisulfite	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1		
Sodium Bromide Sat'd	1	1	1	1					1	1	1				1	1	1							1	1	1	
Sodium Chlorate, Sat'd	1	2	1						1	1	1				1	1	1							1	1	1	
Sodium Chloride	1	1	2	1	1	1			1	1	1	1			1	1	1	1	1	2			1	1	1		
Sodium Chromate	1	1	2						1	1					1	1	1	1	1	1	1						
Sodium Ferrocyanide, Sat'd	1	1	1	1																							
Sodium Fluoride	1	1	1	1					1						1	1	1	1	1	1	1						
Sodium Hypochlorite	1	2	1						1						1	1	1										
Sodium Iodide	1	1	2						1						1	1	2										
Sodium Nitrate, Sat'd	1	1	1	1					1	1	1				1	1	1	1	1	1	1	1	1	1	1	1	
Sodium Nitrite, Sat'd	1								1						1	1	1	1	1	1	1						
Sodium Oxalate	1	1	2						1						1	1	2										
Sodium Perborate	1	1	1	1	1	1	1	1	1						1	1	1						1	1	1	1	
Sodium Phosphate	1	1	2						1	1	1	1	1	1	1	1	1	2									
Sodium Sulfate, Sat'd	1	1	1	1					1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Sodium Sulfide	1	1	2	1					1	1	1				1	1	1	1	1	1	1	1	1	1	1	1	
Sodium Sulfite	1	1	1	1					1	1	1				1	1	1	1	1	1	1	1	1	1	1	1	
Sodium Thiosulfate	1	1	2						1	1	1				1	1	1	1	1	1	1						
Stannous Chloride, 15%	1	2	2						1	1	1				1	1	1	1	1	1	1						
Stearic Acid, 100%	1	1	1	1	1	1			1	2	2				1	1	1	1	1	1	1						
Succinic Acid	1	1	1						1	1	1				1	1	1										
Sugar Syrup	1	1	2	1					1	1	1	1			1	1	1	1	1	1	1						

1 - High Resistance

2 - Limited Resistance

3 - No Resistance

## CHEMICAL RESISTANCE CHART

Chemicals	HDPE			X-PE					EPDM					FPM (FKM)						BUNA-N		SBR	
	Temp. °C 68	20 40 68	60 104 140	20 40 68	60 104 140	80 176	100 212	20 40 68	40 104 140	60 176	80 212	100 212	20 40 68	40 104 140	60 176	80 212	100 212	120 248	20 68	20 68	20 68		
Potassium Iodide	1	1	1					1	1	1			1	1	1	1					1		
Potassium Nitrate	1	1	1					1					1								1		
Potassium Perborate								1					1								1		
Potassium Perchlorate	1	1	1					1	1	1			1	1	1	1					1		
Potassium Permanganate, Sat'd	1	1	2					1	1	1			1	1	1	1	1			2	1		
Potassium Permanganate, 10%								1	1	2			1	1	1					3	1		
Potassium Persulfate	1	1	1					1	1	1	1		1	1	1	1					1		
Potassium Sulfate	1	1	1					1	1	1	1		1	1	1	1	1				1		
Propane	1							1					1								3		
1-Propanol	1	1	1					1	1	1			1	1	1								
Propargyl Alcohol	1	1	1					1	1	1			1	1	1								
Propionic Acid, 50%	1	1	1					1	1	1			1	1	2								
Propyl Alcohol								1					1	1	1						1		
Propylene Oxide	2							1												3			
Pyridine								3	3	3			3	3	3						3		
Sea Water								1	1	1	1	1	1	1	1	1	1	1	1		1		
Silicic Acid								1	1	1			1										
Silicone Oil	1	1	1					2					1	1	1						1		
Silver Cyanide													1										
Silver Nitrate								1					1		2						1		
Soaps	1	1	1					1	1	1	2		1	1	1	2					1		
Sodium Acetate, Sat'd	1	1	1					1	1	1	2		1	1	1	2					3		
Sodium Benzoate	1	1	1					1	1	1	2		1	1	1	2							
Sodium Bicarbonate	1	1	1					1	1	1	1		1	1	1	1					1		
Sodium Bichromate, Sat'd								1					1										
Sodium Bisulfate	1	1	1					1	1	1	2		2								1		
Sodium Bisulfite	1	1	1					1	1	1	2		2								1		
Sodium Bromide Sat'd								1					1										
Sodium Chlorate, Sat'd								1					1	1	1								
Sodium Chloride	1							1	1	1			1	1	1						1		
Sodium Chromate	1							1	1	1			1	1	1								
Sodium Ferrocyanide, Sat'd								3					3										
Sodium Fluoride	1							1	1	1			1	1	1						1		
Sodium Hypochlorite																				3			
Sodium Iodide	1							1	1	1			1	1	1								
Sodium Nitrate, Sat'd	1	1	1					1	1	1			1	1	1						1		
Sodium Nitrite, Sat'd	1							1	1	1			1	1	1						1		
Sodium Oxalate	1							1					1										
Sodium Perborate								1					1								1		
Sodium Phosphate	1	1	1					1	1	1			1	1	1						1		
Sodium Sulfate, Sat'd	1	1	1					1	1	2			1	1	1	1					1		
Sodium Sulfide	1	1	1					1	1	1			1								1		
Sodium Sulfite	1	1	1					1	1	1			1	1	1						1		
Sodium Thiosulfate	1	1	1					1	1	1			1	1	1						1		
Stannous Chloride, 15%	1	1	1					1	2				1	1	1						1		
Stearic Acid, 100%	1	1	2					1	1	2			1	1	2						1		
Succinic Acid	1	1	1					1	1	1			1	1	1	1							
Sugar Syrup	1	1	1					1	1	1	1		1	1	1	1							

1 - High Resistance

2 - Limited Resistance

3 - No Resistance

## CHEMICAL RESISTANCE CHART

Chemicals	Temp. °C	PVC			CPVC					PP					PVDF						ABS				
		20 68	40 104	60 140	20 68	40 104	60 140	80 176	100 212	20 68	40 104	60 140	80 176	100 212	120 248	20 68	40 104	60 140	80 176	100 212	120 248	20 68	40 104	60 140	
Sulfur Dioxide Gas, Dry	1	1	1	1						1	1	1	3		1	1	1	1	1	1		1	1	1	
Sulfur Dioxide Gas, Wet	2		3																			1			
Sulfur Dioxide Liquified																									
Sulfuric Acid, 51% to 60%	1	1	1							1	1	1				1	1	1	1	1	2				
Sulfuric Acid, 71% to 80%	1	1	1							1	1	2				1	1	1	1	1	2				
Sulfuric Acid, 96%	1	1	2	1	3	3	3	3	3	3	3	3	3	3	1	2	2	3			3	3	3		
Sulfuric Acid, 97%															2										
Sulfurous Acid	1	1	2							1	1	1				1	1	1	1	1	1				
Tannic Acid	1									1	1	1				1	1	1	1	1	1				
Tartaric Acid	1	1	2	1						1	1	1				1	1	1	1	1	1				
Tetrachloroethane	3	3	3							2	3		3			1	1	1	2						
Tetraethyl Lead	1		2	1						1															
Tetrahydrofuran	3	3	3	3	3	3	3	3	3	2	3	3	3	3	1	2	3								
Thionyl Chloride	3			3						3			2												
Toluene	3	3	3	3	3	3	3	3	3	2	3	3	3	3	1	1	2				3	3	3		
Transformer Oil	1	2								1	2										1	1	1		
Tributyl Phosphate										1	1	1				1									
Trichloroacetic Acid	2									1	1	1				2									
Trichloroacetic Acid, 50%	1	2	3							1	1	1				1	1	2							
Trichloroethylene	3	3	3	3	3	3				3	3	3				1	1	1			3	3	3		
Tricresyl Phosphate										1	2														
Triethanolamine	2		3	2						1						1	3	3			1	1	1		
Triethylamine										2						2									
Trioctyl Phosphate										1															
Turpentine	1	2														1									
Urea	1	1	2							1	1	1				1	1	1	1	2					
Urea, 30%																									
Uric Acid	1		2	1		2				1	1	1									1				
Urine	1	1	2	1						1	1	1				1	1	1	1	1	1	1	1	1	
Vaseline	1		3							1	2					1	1	1							
Vegetable Oil	1	2								1	1	2				1	1	1	1	1	1				
Vinegar	1	1	1							1	1	1	1			1	1	1	1	1	1				
Vinyl Acetate	3	3	3	3	3	3				1						2									
Vinyl Chloride																1	1	1	1	1					
Water, Deionized	1	1	1							1	1	1	1	1	1	1	1	1	1	1	1				
Whiskey	1	1	1	1						1						1	1	1			1	1	1		
Wines	1	1	1	1	1	1	1	1	1	1	1	1				1	1	1	1	1	1	1	1		
Xylene										1	1	2													
Yeast	1	1								1	1	1				1	1	1	1	1					
Zinc Chloride	1	1	1	1						1	1	1				1	1	1			1	1	1		
Zinc Nitrate	1	1	1	1						1	1	1				1	1	1			1	1	1		
Zinc Salts	1	1	2							1	1	1				1	1	1	1	1	1				
Zinc Sulfate	1	1	1	1						1	1	1				1	1	1			1	1	1		

1 - High Resistance

2 - Limited Resistance

3 - No Resistance

## CHEMICAL RESISTANCE CHART

Chemicals	HDPE			X-PE					EPDM					FPM (FKM)						BUNA-N	SBR	
	Temp. °C °F	20 68	40 104	60 140	20 68	40 104	60 140	80 176	100 212	20 68	40 104	60 140	80 176	100 212	20 68	40 104	60 140	80 176	100 212	120 248	20 68	20 68
Sulfur Dioxide Gas, Dry										1					1	1	1	1	1			1
Sulfur Dioxide Gas, Wet															1							3
Sulfur Dioxide Liquified										2					2							
Sulfuric Acid, 51% to 60%	1	1	1							1	1	2			1	1	1	2				3
Sulfuric Acid, 71% to 80%	1	1	2							1	2				1	1	2					3
Sulfuric Acid, 96%										2	3	3			1							3
Sulfuric Acid, 97%																						3
Sulfurous Acid	1	1	1							1	2				1	1	2					1
Tannic Acid	1	1	1							1	2				1	1	2					1
Tartaric Acid	1	1	1							1	2				1	1	1					1
Tetrachloroethane	2														2							3
Tetraethyl Lead										1					1							3
Tetrahydrofuran										3					2							3
Thionyl Chloride										3					1							3
Toluene	2									3	3	3	3	3	2							3
Transformer Oil										3					1							3
Tributyl Phosphate	1	1	1							1												3
Trichloroacetic Acid	1	1	1							2												3
Trichloroacetic Acid, 50%	1	1	1							2					3	3	3					3
Trichloroethylene										3	3	3			1							3
Tricresyl Phosphate	1	1	1																			3
Triethanolamine	1	1	1							2					1							1
Triethylamine																						3
Trioctyl Phosphate	2																					3
Turpentine	2	2	2												1	1	1					3
Urea	1	1	1							1	1	1			1	1	1					
Urea, 30%																						
Uric Acid																						
Urine	1	1	1							1	1	1			1	1	1					
Vaseline										3	3	3			1							
Vegetable Oil	1	2													1	1	1					3
Vinegar	1	1	1							1	2				2							1
Vinyl Acetate										1	3	3			1							
Vinyl Chloride										2												
Water, Deionized	1	1	1							1	1	2			1	1	1	1	1	1		1
Whiskey										1					1							1
Wines										1					1							1
Xylene															1	2						3
Yeast	1	1	1							1	1				1	1						
Zinc Chloride										1					1							1
Zinc Nitrate										1					1							1
Zinc Salts	1	1	1							1	1	1			1	1	1					
Zinc Sulfate										1					1							1

1 - High Resistance

2 - Limited Resistance

3 - No Resistance

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11 F . . . . .	(See Fluorolube)	Acetylbenzene . . . . .	(See Acetophenone)
12 F . . . . .	(See Fluorolube)	Acetylen . . . . .	(See Acetylene)
12FD . . . . .	(See Fluorolube)	Acetylene Trichloride . . . . .	(See Trichloroethylene)
13FM . . . . .	(See Fluorolube)	Acid Amaranth . . . . .	(See Bordeaux Mixture)
2- (2-Butoxyethoxy) Ethanol . . . . .	(See Butyl Carbital)	Acid Ammonium Carbonate . . . . .	(See Ammonium Carbonate)
4-(1, 1-Dimethylethyl) Phenol . . . . .	(See Butyl Phenol)	Acid Ammonium Fluoride . . . . .	(See Ammonium Bifluoride)
4LF . . . . .	(See Fluorolube)	Acid Potassium Sulfate . . . . .	(See Potassium Bisulfate)
(6) Annulene . . . . .	(See Benzene)	Acide acetique . . . . .	(See Acetic Acid )
#6 Heavy Fuel Oils . . . . .	(See Fuel Oil No. 6)	Acide anisique . . . . .	(See Methyl Salicylate)
90 Technical Glycerine . . . . .	(See Glycerine)	Acidic Potassium Sulfate . . . . .	(See Bleach)
A 10846 . . . . .	(See Dimethyl Sulfoxide)	Aci floctin . . . . .	(See Adipic Acid)
A-Stoff . . . . .	(See Chloroacetone)	Acilan Red SE . . . . .	(See Bordeaux Mixture)
Aafertis . . . . .	(See Carbamates)	Aciletten . . . . .	(See Citric Acid)
Absolute Ethanol . . . . .	(See Ethyl Alcohol)	Acinetten . . . . .	(See Adipic Acid)
Absorbable Gelatin Sponge . . . . .	(See Gelatin)	Acintene DP . . . . .	(See Dipentene)
Acetacid Red 2BR . . . . .	(See Bordeaux Mixture)	Acintene DP Dipentene . . . . .	(See Dipentene)
Acetaldehyde, Trichloro-(9cl) . . . . .	(See Trichloroaldehyde)	Acitene DP . . . . .	(See Limonene)
Acetanhydride . . . . .	(See Acetic Anhydride)	Acitene DP Dipentene . . . . .	(See Limonene)
Acetate of Lime . . . . .	(See Calcium Acetate)	Aclar 22A . . . . .	(See Fluorolube)
Acetic Acid, 2,2'-Oxybis-(9Cl) . . . . .	(See Diglycolic Acid)	Aclar 33C . . . . .	(See Fluorolube)
Acetic Acid Amide . . . . .	(See Acetamide)	Acquinite . . . . .	(See Chloropicrin)
Acetic Acid, Ammonium Salt . . . . .	(See Ammonium Acetate)	Acretet . . . . .	(See Acrylonitrile)
Acetic Acid, Anhydride . . . . .	(See Acetic Anhydride)	Acroleic Acid . . . . .	(See Acrylic Acid)
Acetic Acid, Barium Salt . . . . .	(See Barium Acetate)	Acrylic Acid, 2-Methyl- . . . . .	(See Methacrylic Acid)
Acetic Acid, Cadmium Salt . . . . .	(See Cadmium Acetate)	Acrylic Acid, 2-Methyl-, Methyl Ester . . . . .	(See Methyl Metacrylate)
Acetic Acid Chloride . . . . .	(See Acetyl Chloride)	Acrylic Acid Butyl Ester . . . . .	(See Butyl Acrylate)
Acetic Acid, Cupric Salt . . . . .	(See Copper Acetate)	Acrylic Acid Ethyl Ester . . . . .	(See Ethyl Acrylate)
Acetic Acid Ethenyl Ester Homopolymer . . . . .	(See Polyvinyl Acetate)	Acrylic Acid, Glacial . . . . .	(See Acrylic Acid)
Acetic Acid Isopropyl Ester . . . . .	(See Isopropyl Acetate)	Acrylic Acid Methyl Ester . . . . .	(See Methyl Acrylate)
Acetic Acid, Lead Salt . . . . .	(See Lead Acetate)	Acrylic Acid n-Butyl Ester . . . . .	(See Butyl Acrylate)
Acetic Acid, Magnesium Salt . . . . .	(See Magnesium Acetate)	Acrylon . . . . .	(See Acrylonitrile)
Acetic Acid Methyl Ester . . . . .	(See Methyl Acetate)	Acrylonitrile, Inhibited . . . . .	(See Acrylonitrile)
Acetic Acid n-Butyl Ester . . . . .	(See Butyl Acetate)	Acrylonitrile Monomer . . . . .	(See Acrylonitrile)
Acetic Acid, n-Propyl Ester . . . . .	(See Propyl Acetate)	Acticel . . . . .	(See Ludox)
Acetic Acid, Nickel(2+) Salt . . . . .	(See Nickel Acetate)	Active Acetyl Acetate . . . . .	(See Ethyl Acetoacetate)
Acetic Acid, Oxydi- . . . . .	(See Diglycolic Acid)	Actybarite . . . . .	(See Barium Sulfate)
Acetic Acid, Silver(1+) Salt . . . . .	(See Silver Acetate)	Adepsine Oil . . . . .	(See Mineral Oil)
Acetic Acid, Sodium Salt . . . . .	(See Sodium Acetate)	Adilactetten . . . . .	(See Adipid Acid)
Acetic Acid Vinyl Ester Polymers . . . . .	(See Polyvinyl Acetate)	Adipic Acid, Dibutoxyethyl Ester . . . . .	(See Butyl "Cellosolve" Adipate)
Acetic Acid, Zinc Salt . . . . .	(See Zinc Acetate)	Adipinic Acid . . . . .	(See Adipic Acid)
Acetic Acid-1-Methylethyl Ester (9Cl) . . . . .	(See Isopropyl Acetate)	Adol . . . . .	(See Ocenol)
Acetic Acid-2-Ethoxyethyl Ester . . . . .	(See Cellosolve Acetate)	Adol 320 . . . . .	(See Ocenol)
Acetic Aldehyde . . . . .	(See Acetaldehyde)	Adol 330 . . . . .	(See Ocenol)
Acetic Chloride . . . . .	(See Acetyl Chloride)	Adol 34 . . . . .	(See Ocenol)
Acetic Ether . . . . .	(See Ethyl Acetate)	Adol 340 . . . . .	(See Ocenol)
Acetic Oxide . . . . .	(See Acetic Anhydride)	Adol 80 . . . . .	(See Ocenol)
Acetic Peroxide . . . . .	(See Peracetic Acid)	Adol 85 . . . . .	(See Ocenol)
Acetidin . . . . .	(See Ethyl Acetate)	Adol 90 . . . . .	(See Ocenol)
Acetimidic Acid . . . . .	(See Acetamide)	Adronal . . . . .	(See Cyclohexanol)
Aceto-Caustin . . . . .	(See Trichloroacetic Acid)	Adulsin . . . . .	(See Methyl Cellulose)
Acetoacetic Acid, Ethyl Ester . . . . .	(See Ethyl Acetoacetate)	Aero Cyanate . . . . .	(See Potassium Cyanate)
Acetoacetic Ester . . . . .	(See Ethyl Acetoacetate)	Aero Liquid HCN . . . . .	(See Hydrocyanic Acid)
Acetoacetic Methyl Ester . . . . .	(See Methylacetoacetate)	Aerosil . . . . .	(See Ludox)
Acetoacetone . . . . .	(See Acetyl Acetone)	Aerotex Glyoxal 40 . . . . .	(See Glyoxal)
Acetone Oils . . . . .	(See Acetone)	Aerothene MM . . . . .	(See Methylene Chloride)
Acetonyl Chloride . . . . .	(See Chloroacetone)	Aerothene MM . . . . .	(See Methylene Dichloride)
Acetoxyethane . . . . .	(See Ethyl Acetate)	Aerothene TT . . . . .	(See Methyl Chloroform)
2-Acetoxypropane . . . . .	(See Isopropyl Acetate)	Aeroxanthate . . . . .	(See Potassium Amyl xanthate)
1-Acetoxypropane . . . . .	(See Propyl Acetate)	Aeroxanthate 350 . . . . .	(See Potassium Amyl xanthate)
Acetyl Anhydride . . . . .	(See Acetic Anhydride)	Aether . . . . .	(See Ethyl Ether)
Acetyl Ether . . . . .	(See Acetic Anhydride)	Aether . . . . .	(See Diethyl Ether)
Acetyl Hydroperoxide . . . . .	(See Peracetic Acid)	Aethylis . . . . .	(See Ethyl Chloride)
Acetyl Oxide . . . . .	(See Acetic Anhydride)	Aethylis Chloridum . . . . .	(See Ethyl Chloride)

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AF 260 . . . . .	(See Aluminum Hydroxide)	Aluminum (III) Hydroxide . . . . .	(See Aluminum Hydroxide)
Afluon . . . . .	(See Magnesium Fluoride)	Aluminum (III) Nitrate . . . . .	(See Aluminum Nitrate)
Agenap . . . . .	(See Naphthenic Acid)	Aluminum Oxide Chloride . . . . .	(See Aluminum Oxychloride)
Agricultural Limestone . . . . .	(See Calcium Carbonate)	Aluminum Oxide Hydrate . . . . .	(See Aluminum Hydroxide)
Agstone . . . . .	(See Calcium Carbonate)	Aluminum Oxide Trihydrate . . . . .	(See Aluminum Hydroxide)
Airlock . . . . .	(See Calcium Oxide)	Aluminum Potassium Alum . . . . .	(See Aluminum Potassium Sulfate)
Aizen Amaranth . . . . .	(See Bordeaux Mixture)	Aluminum Potassium Disulfate . . . . .	(See Aluminum Potassium Sulfate)
Akro-Mag . . . . .	(See Magnesium Oxide)	Aluminum Potassium Sulfate, Alum . . . . .	(See Aluminum Potassium Sulfate)
Alboline . . . . .	(See Mineral Oil)	Aluminum Potassium Sulfate, Anhydrous . . . . .	(See Aluminum Potassium Sulfate)
Alcide . . . . .	(See Chlorine Dioxide)	Aluminum Sodium Oxide . . . . .	(See Sodium Aluminate)
Alcide LD . . . . .	(See Sodium Chlorite)	Aluminum Sodium Sulfate . . . . .	(See Sodium Alum)
Alcoa 331 . . . . .	(See Aluminum Hydroxide)	Aluminum Sulphate . . . . .	(See Aluminum Sulfate)
Alcoa Sodium Fluoride . . . . .	(See Sodium Fluoride)	Aluminum Tribromide . . . . .	(See Aluminum Bromide)
Alcohol . . . . .	(See Ethyl Alcohol)	Aluminum Trichloride . . . . .	(See Aluminum Chloride)
Alcohol, Anhydrous . . . . .	(See Ethyl Alcohol)	Aluminum Trifluoride . . . . .	(See Aluminum Fluoride)
Alcohol C-8 . . . . .	(See Octanol)	Aluminum Trihydrat . . . . .	(See Aluminum Hydroxide)
Alcohol, Dehydrated . . . . .	(See Ethyl Alcohol)	Aluminum Trihydroxide . . . . .	(See Aluminum Hydroxide)
Alcotex 88/05 . . . . .	(See Polyvinyl Alcohol)	Aluminum Trinitrate . . . . .	(See Aluminum Nitrate)
Alcotex 88/10 . . . . .	(See Polyvinyl Alcohol)	Aluminum Trisulfate . . . . .	(See Aluminum Sulfate)
Aldehyde acetique . . . . .	(See Acetaldehyde)	Alusal . . . . .	(See Aluminum Hydroxide)
Aldehyde butyrique . . . . .	(See Butyraldehyde)	Alvyl . . . . .	(See Polyvinyl Alcohol)
Aldehyde C-6 . . . . .	(See Hexaldehyde)	Alysine . . . . .	(See Sodium Salicylate)
Alfa-Tox . . . . .	(See Diazinon)	AM-FOL . . . . .	(See Ammonia Anhydrous)
Alfol 8 . . . . .	(See Octanol)	Amacid Amaranth . . . . .	(See Bordeaux Mixture)
Algeon 22 . . . . .	(See Freon 22)	Amaizo W 13 . . . . .	(See Starch)
Algofrene 22 . . . . .	(See Freon 22)	Amarant . . . . .	(See Bordeaux Mixture)
Algofrene Type 1 . . . . .	(See Freon 11)	Amaranth . . . . .	(See Bordeaux Mixture)
Algofrene Type 2 . . . . .	(See Freon 12)	Amaranthe USP (biological stain) . . . . .	(See Bordeaux Mixture)
Algofrene Type 5 . . . . .	(See Freon 21)	Amber Acid . . . . .	(See Succinic Acid)
Algofrene Type 6 . . . . .	(See Freon 22)	Ambersol ST 140F . . . . .	(See Aluminum Hydroxide)
Algrain . . . . .	(See Ethyl Alcohol)	Amchem Grass Killer . . . . .	(See Trichloroacetic Acid)
Algynen . . . . .	(See Trichloroethylene)	Amchlor . . . . .	(See Ammonium Chloride)
Alycyanate . . . . .	(See Potassium Cyanate)	Amidosulfonic Acid . . . . .	(See Sulfamic Acid)
Alkapol PEG-200 . . . . .	(See Polyethylene Glycol)	Amidosulfuric Acid . . . . .	(See Sulfamic Acid)
Alkapol PEG-300 . . . . .	(See Polyethylene Glycol)	Aminic Acid . . . . .	(See Formic Acid)
Alkapol PEG-600 . . . . .	(See Polyethylene Glycol)	Aminobenzene . . . . .	(See Aniline)
Alkapol PEG-6000 . . . . .	(See Polyethylene Glycol)	1-Aminobutane . . . . .	(See Butylamine)
Alkapol PEG-8000 . . . . .	(See Polyethylene Glycol)	2-Aminoethanol . . . . .	(See Monoethanolamine)
Alkotex . . . . .	(See Polyvinyl Alcohol)	2-Aminopentane . . . . .	(See Diethylamine)
Allomaleic Acid . . . . .	(See Fumaric Acid)	Aminophen . . . . .	(See Aniline)
Allyl Al . . . . .	(See Allyl Alcohol)	Aminosulfonic Acid . . . . .	(See Sulfamic Acid)
Allylic Alcohol . . . . .	(See Allyl Alcohol)	Ammoneric . . . . .	(See Ammonium Chloride)
Almond Artificial Essential Oil . . . . .	(See Benzaldehyde)	Ammonia . . . . .	(See Ammonia Anhydrous)
Alum . . . . .	(See Aluminum Sulfate)	Ammonia, Anhydrous Liquified . . . . .	(See Ammonia Anhydrous)
Alum Potassium . . . . .	(See Aluminum Potassium Sulfate)	Ammonia Aqueous . . . . .	(See Ammonium Hydroxide)
Alumigel . . . . .	(See Aluminum Hydroxide)	Ammonia Gas . . . . .	(See Ammonia Anhydrous)
Alumina . . . . .	(See Sodium Aluminate)	Ammonia Water, 29% . . . . .	(See Ammonium Hydroxide)
Alumina Hydrate . . . . .	(See Aluminum Hydroxide)	Ammoniac . . . . .	(See Ammonia Anhydrous)
Alumina Hydrated . . . . .	(See Aluminum Hydroxide)	Ammonium Bicarbonate . . . . .	(See Ammonium Carbonate)
Alumina Trihydrate . . . . .	(See Aluminum Hydroxide)	Ammonium Bichromate . . . . .	(See Ammonium Dichromate)
a-Alumina Trihydrate . . . . .	(See Aluminum Hydroxide)	Ammonium Dichromate (VI) . . . . .	(See Ammonium Dichromate)
Aluminic Acid . . . . .	(See Aluminum Hydroxide)	Ammonium Difluoride . . . . .	(See Ammonium Bifluoride)
Aluminosilicates, Zeolites . . . . .	(See Zeolite)	Ammonium Difluoride mixed with Hydrochloric Acid . . . . .	(See White Acid)
Aluminum Alum . . . . .	(See Aluminum Sulfate)	Ammonium Disulfatonickelate(II) . . . . .	(See Nickel Ammonium Sulfate)
Aluminum Bromide, anhydrous (UN 1725) . . . . .	(See Aluminum Bromide)	Ammonium Fluoride comp. with	
Aluminum Bromide, solution (UN 2580) . . . . .	(See Aluminum Bromide)	Hydrogen Fluoride (1:1) . . . . .	(See Ammonium Bifluoride)
Aluminum Chloride (1:3) . . . . .	(See Aluminum Chloride)	Ammonium fluorure . . . . .	(See Ammonium Fluoride)
Aluminum Chloride, Anhydrous . . . . .	(See Aluminum Chloride)	Ammonium Hydrofluoride . . . . .	(See Ammonium Bifluoride)
Aluminum Chloride Oxide . . . . .	(See Aluminum Oxychloride)	Ammonium Hydrogem Fluoride . . . . .	(See Ammonium Bifluoride)
Aluminum Chloride, Solution . . . . .	(See Aluminum Chloride)	Ammonium Hydrogen Bifluoride . . . . .	(See Ammonium Bifluoride)
Aluminum fluorure . . . . .	(See Aluminum Fluoride)	Ammonium Hydrogen Carbonate . . . . .	(See Ammonium Carbonate)
Aluminum Hydrate . . . . .	(See Aluminum Hydroxide)	Ammonium Hydrogen Difluoride . . . . .	(See Ammonium Bifluoride)
Aluminum Hydroxide Gel . . . . .	(See Aluminum Hydroxide)	Ammonium Hydrogen Fluoride, solid . . . . .	(See Ammonium Bifluoride)

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Ammonium Hydrogen Fluoride, solution . . . . .	(See Ammonium Bifluoride)
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Ammonium Hydrosulfide . . . . .	(See Ammonium Bisulfide)
Ammonium Hydrosulfide, solution . . . . .	(See Ammonium Bisulfide)
Ammonium Mercaptan . . . . .	(See Ammonium Bisulfide)
Ammonium Muriate . . . . .	(See Ammonium Chloride)
Ammonium Nickel Sulfate . . . . .	(See Nickel Ammonium Sulfate)
Ammonium Nitrate (1:1) . . . . .	(See Ammonium Nitrate)
Ammonium Peroxydisulfate . . . . .	(See Ammonium Persulfate)
Ammonium Phosphate . . . . .	(See Ammonium Phosphate, Dibasic)
Ammonium Polysulfide (solution) . . . . .	(See Ammonium Sulfide)
Ammonium Rhodanate . . . . .	(See Ammonium Thiocyanate)
Ammonium Rhodanide . . . . .	(See Ammonium Thiocyanate)
Ammonium Salt peter . . . . .	(See Ammonium Nitrate)
Ammonium Sulfhydrate . . . . .	(See Ammonium Bisulfide)
Ammonium Sulfide (Poly-) . . . . .	(See Ammonium Sulfide)
Ammonium Sulfocyanate . . . . .	(See Ammonium Thiocyanate)
Ammonium Sulphate . . . . .	(See Ammonium Sulfate)
Ammonium Trisulfide . . . . .	(See Ammonium Sulfide)
Amorphous Silica Dust . . . . .	(See Ludox)
Ampacet E/C . . . . .	(See Ethylcellulose)
Amphojel . . . . .	(See Aluminum Hydroxide)
Amprolene . . . . .	(See Ethylene Oxide)
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AMSCO H-SB . . . . .	(See Naphtha)
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n-Amyl Acetate . . . . .	(See Amyl Acetate)
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Amyl Acetic Ester . . . . .	(See Amyl Acetate)
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Anhydride arsenique . . . . .	(See Arsenic Acid)
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Anhydrous Calcium Sulfate . . . . .	(See Calcium Sulfate)
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Anidride cromique . . . . .	(See Chromic Oxide)
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Aniline Salt . . . . .	(See Aniline Hydrochloride)
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Antisol 1 . . . . .	(See Perchloroethylene)
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Aquapel (Polysaccharide) . . . . .	(See Starch)
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Arctuvin . . . . .	(See Hydroquinone)
Ardall . . . . .	(See Sodium Salicylate)
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Arizole . . . . .	(See Pine Oil)
Arkhone P . . . . .	(See Freon 113)
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Aroall . . . . .	(See Sodium Salicylate)
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Aroclor 1221 . . . . .	(See Pyranol)
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n-Butyl Phthalate	.....(See Butyl Phthalate)	Calcined Magnesite	.....(See Magnesium Oxide)
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1,2-Dihydroxyethane . . . . .	(See Glycols)	1,2-Dimethylhydrazine Dihydrochloride . . . . .	(See Dimethylhydrazine)
2,2'-Dihydroxyethyl Ether . . . . .	(See Diethylene Glycol)	sym-Dimethylhydrazine Dihydrochloride . . . . .	(See Dimethylhydrazine)
Diiodomethane . . . . .	(See Methylene Iodide)	Dimethylketal . . . . .	(See Acetone)
Diiron Trisulfate . . . . .	(See Ferric Sulfate)	Dimethylmethane . . . . .	(See Propane)
Diisobutene . . . . .	(See Diisobutylene)	Dimethylnitromethane . . . . .	(See Nitropropane)
Diisopropyl Ether . . . . .	(See Isopropyl Ether)	Dimethylphenylamine . . . . .	(See Dimethylaniline)
Diisopropyl Oxide . . . . .	(See Isopropyl Ether)	n, n-Dimethylphenylamine . . . . .	(See Dimethylaniline)
s-Diisopropylacetone . . . . .	(See Diisobutyl Ketone)	Dimoxide . . . . .	(See Dimethyl Sulfoxide)
Diisopropylidene Acetone . . . . .	(See Phorone)	Dimpylate . . . . .	(See Diazinon)
sym-Diisopropylidene Acetone . . . . .	(See Phorone)	Dinal . . . . .	(See Dowtherm A)
Diketone Alcohol . . . . .	(See Diacetone Alcohol)	Dinitrogen Monoxide . . . . .	(See Nitrous Oxide)
Dilantin DB . . . . .	(See Dichlorobenzene)	Dinitrogen Tetroxide . . . . .	(See Nitrogen Tetroxide)
Dilantin DB . . . . .	(See Dowtherm E)	Dinitroglycol . . . . .	(See Nitroglycol)
Dilatin DB . . . . .	(See Dichlorobenzene)	Dinitrophenylmethane . . . . .	(See Dinitrotoluene)
Dilatin DB . . . . .	(See Dowtherm E)	Dinitrotoluenes, liquid or solid . . . . .	(See Dinitrotoluene)
Dimazine . . . . .	(See UDMH)	Dinonyl-1,2-Benzenedicarboxylate . . . . .	(See Dinonyl Phthalate)
(Dimethoxyphosphinothioyl)Thio Butanedioic Acid Diethyl Ester . . . . .	(See Malathion)	Dinopol NOP . . . . .	(See Diocetyl Phthalate)
Dimethoxytetraethylene Glycol . . . . .	(See Ansol Ether 181AT)	Dinyl . . . . .	(See Dowtherm A)
Dimethoxytetraglycol . . . . .	(See Ansol Ether 181AT)	n-Dioctyl Phthalate . . . . .	(See Diocetyl Phthalate)
Dimethyl . . . . .	(See Ethane)	Diocetyl-o-Benzenedicarboxylate . . . . .	(See Diocetyl Phthalate)
Dimethyl Benzeneorthodicarboxylate . . . . .	(See Dimethyl Phthalate)	Diokan . . . . .	(See Dioxane)
Dimethyl Carbonate . . . . .	(See Methyl Carbonate)	Diononyl Phthalate . . . . .	(See Dinonyl Phthalate)
n, n-Dimethyl Formamide . . . . .	(See Dimethylformamide)	1,4-Dioxane . . . . .	(See Dioxane)
1,1-Dimethyl Hydrazine . . . . .	(See UDMH)	p-Dioxane . . . . .	(See Dioxane)
Dimethyl Ketone . . . . .	(See Acetone)	Dioxanne . . . . .	(See Dioxane)
Dimethyl Monosulfate . . . . .	(See Methyl Sulfate)	9,10-Dioxoanthracene . . . . .	(See Anthraquinone)
Dimethyl Sulfate . . . . .	(See Methyl Sulfate)	p-Dioxobenzene . . . . .	(See Hydroquinone)
Dimethyl Sulfoxide . . . . .	(See Methyl Sulfoxide)	Dioxolan . . . . .	(See Dioxolane)
Dimethyl-1,2-Benzenedicarboxylate . . . . .	(See Dimethyl Phthalate)	p-Dioxybenzene . . . . .	(See Hydroquinone)
2,2-Dimethyl-1,3-Dioxolane-4-Methanol . . . . .	(See Dioxolane)	1,4-Dioxybenzene . . . . .	(See Quinone)
2,6-Dimethyl-2,5-Heptadien-4-One . . . . .	(See Phorone)	Dioxyethylene Ether . . . . .	(See Dioxane)
2,4-Dimethyl-3-Pentanone . . . . .	(See Diisopropyl Ketone)	Dipanol . . . . .	(See Dipentene)
2,6-Dimethyl-4-Heptanone . . . . .	(See Diisobutyl Ketone)	Dipanol . . . . .	(See Limonene)
2,2-Dimethyl-4-Oxymethyl-1,3-Dioxolane . . . . .	(See Dioxolane)	Diphenyl Ether . . . . .	(See Diphenyl Oxide)
2,2-Dimethyl-5-Hydroxymethyl-1,3-Dioxolane . . . . .	(See Dioxolane)	Diphenyl Ketone . . . . .	(See Benzophenone)
n-Dimethyl-Aniline . . . . .	(See Dimethylaniline)	Diphenyl Methanone . . . . .	(See Benzophenone)
o,o-Dimethyl-s-(1,2-Dicarbethoxyethyl) Dithiophosphate . . . . .	(See Malathion)	Diphenyl mixed with Diphenyl Oxide . . . . .	(See Dowtherm A)
o,o-Dimethyl-s-(1,2-Dicarbethoxyethyl) Phosphorodithioate . . . . .	(See Malathion)	Diphosgene . . . . .	(See Phosgene Gas)
o,o-Dimethyl-s-1,2-Di(EthoxyCarbamyl) Ethyl Phosphorodithioate . . . . .	(See Malathion)	Diphosphorus Pentoxide . . . . .	(See Phosphorous Pentoxide)
Dimethylacetone . . . . .	(See Diethyl Ketone)	Diphyl . . . . .	(See Dowtherm A)
Dimethylamine, Anhydrous . . . . .	(See Dimethylamine)	Dipirartril-Tropico . . . . .	(See Dimethyl Sulfoxide)
(Dimethylamino) Benzene . . . . .	(See Dimethylaniline)	Dipofene . . . . .	(See Diazinon)
Dimethylbenzeneamine . . . . .	(See Dimethylaniline)	Dipotassium Chromate . . . . .	(See Potassium Chromate)
Dimethylcarbamodithioic Acid, Iron (3+) Salt . . . . .	(See Carbamates)	Dipotassium Dichloride . . . . .	(See Potassium Chloride)
Dimethylcarbamodithioic Acid, Iron Complex . . . . .	(See Carbamates)	Dipotassium Dichromate . . . . .	(See Potassium Bichromate)
Dimethylcarbinol . . . . .	(See Isopropyl Alcohol)	Dipotassium Monochromate . . . . .	(See Potassium Chromate)
Dimethylldithiocarbamic Acid, Iron Salt . . . . .	(See Carbamates)	Dipotassium Persulfate . . . . .	(See Potassium Persulfate)
o,o-Dimethylldithiophosphate Diethylmer-captosuccinate . . . . .	(See Malathion)	Dippel's Oil . . . . .	(See Animal Oil)
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Dimethylenediamine . . . . .	(See Ethylenediamine )	Dipropyl Methane . . . . .	(See Heptane)
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4-(1,1-Dimethylethyl)-1,2-Benzenediol . . . . .	(See Tertiary Butylcatechol)	Disflamoll TKP . . . . .	(See Tricresyl Phosphate)
Dimethylformaldehyde . . . . .	(See Acetone)	Disflamoll Tof . . . . .	(See Trioctyl Phosphate)
n, n-Dimethylformamide . . . . .	(See Dimethylformamide)	Disodium Carbonate . . . . .	(See Soda Ash)
2,6-Dimethylheptan-4-One . . . . .	(See Diisobutyl Ketone)	Disodium Chromate . . . . .	(See Sodium Chromate)
Dimethylhydrazine . . . . .	(See UDMH)	Disodium Dichromate . . . . .	(See Sodium Bichromate)
asym-Dimethylhydrazine . . . . .	(See UDMH)	Disodium Dichromate . . . . .	(See Sodium Dichromate)
N,N-Dimethylhydrazine . . . . .	(See UDMH)	Disodium Difluoride . . . . .	(See Sodium Fluoride)
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Disodium Metasilicate . . . . .	(See Sodium Silicate)	Dowanol EM . . . . .	(See Methyl Cellosolve)
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Disodium Monohydrogen Phosphate . . . . .	(See Sodium Phosphate)	Dowanol PM Glycol Ether . . . . .	(See Dowtherm 209)
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Disodium Orthophosphate . . . . .	(See Disodium Phosphate)	Dowcide 2 . . . . .	(See Trichlorophenol)
Disodium Orthophosphate . . . . .	(See Sodium Phosphate )	Dowcide B . . . . .	(See Trichlorophenol)
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Dolcymene . . . . .	(See Cymene)	Dutch Oil . . . . .	(See Ethylene Dichloride)
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2-Ethoxyethanol .....	(See Ethyl Cellosolve)
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Ethyl Potassium Xanthogenate .....	(See Potassium Ethylxanthate)
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Ethylene Glycol Monoethyl Ether .....	(See Cellosolve)
Ethylene Glycol Monoethyl Ether .....	(See Ethyl Cellosolve)
Ethylene Glycol Monoethyl Ether Acetate .....	(See Cellosolve Acetate)
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Genvis . . . . .	(See Starch)	Glycol Ether PM . . . . .	(See Dowtherm 209)
Geranium Crystals . . . . .	(See Diphenyl Oxide)	Glycol Ethyl Ether . . . . .	(See Diethylene Glycol)
Gertley Borate . . . . .	(See Borax)	Glycol Ethyl Ether . . . . .	(See Carbitol)
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Iron Sesquisulfate . . . . .	(See Ferric Sulfate)	JP 1 . . . . .	(See Kerosene)
Iron Sulfate (2:3) . . . . .	(See Ferric Sulfate)	JP-5 . . . . .	(See JP-5 Fuel)
Iron Tersulfate . . . . .	(See Ferric Sulfate)	JP-5 Jet Fuel . . . . .	(See JP-5 Fuel)
Iron Trichloride . . . . .	(See Ferric Chloride)	JP-5 Navy Fuel . . . . .	(See JP-5 Fuel)
Iron Trinitrate . . . . .	(See Ferric Nitrate)	Judean Pitch . . . . .	(See Asphalt)
Iron Vitriol . . . . .	(See Ferrous Sulfate)	Jusonin . . . . .	(See Sodium Bicarbonate)

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K-Gran . . . . .	(See Potassium Carbonate)	Ketohexamethylene . . . . .	(See Cyclohexanone)
K-Lor . . . . .	(See Potassium Chloride)	Ketone, Dimethyl . . . . .	(See Acetone)
K-Prendre-Dome . . . . .	(See Potassium Chloride)	Ketone Methyl Phenyl . . . . .	(See Acetophenone)
K1-N . . . . .	(See Potassium Iodide)	Ketone Propane . . . . .	(See Acetone)
Kaiser Chemicals 11 . . . . .	(See Freon 113)	Ketonox . . . . .	(See Methyl Ethyl Ketone Peroxide)
Kaiser Chemicals 12 . . . . .	(See Freon 12)	b-Ketopropane . . . . .	(See Acetone)
Kalitabs . . . . .	(See Potassium Chloride)	Khaladon 22 . . . . .	(See Freon 22)
Kalkhydrate . . . . .	(See Calcium Hydroxide)	Khaladon 113 . . . . .	(See Freon 113)
Kam 1000 . . . . .	(See Stearic Acid)	Khaladon 114B2 . . . . .	(See Freon 114B2)
Kam 2000 . . . . .	(See Stearic Acid)	Khaladon 32 . . . . .	(See Freon 32)
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Kanechlor . . . . .	(See Pyranol)	Klavi Kordal . . . . .	(See Nitroglycerin)
Kanechlor 300 . . . . .	(See Aroclor)	Klorex . . . . .	(See Sodium Chlorate)
Kanechlor 300 . . . . .	(See Pyranol)	Klorocin . . . . .	(See Chlorox)
Kanechlor 400 . . . . .	(See Aroclor)	Klorocin . . . . .	(See Sodium Hypochlorite)
Kanechlor 400 . . . . .	(See Pyranol)	Klotrix . . . . .	(See Potassium Chloride)
Kaochlor . . . . .	(See Potassium Chloride)	Knockmate . . . . .	(See Carbamates)
Kaon-Cl . . . . .	(See Potassium Chloride)	Knollide . . . . .	(See Potassium Iodide)
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Kautschin . . . . .	(See Limonene)	Kronisol . . . . .	(See Di(Butoxyethyl) Phthalate)
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Kayafume . . . . .	(See Methyl Bromide)	Kronitex . . . . .	(See Tricresyl Phosphate)
Kayaku Amaranth . . . . .	(See Bordeaux Mixture)	Kronitex Tof . . . . .	(See Trioctyl Phosphate)
Kayazinon . . . . .	(See Diazinon)	Kronitrex KP-140 . . . . .	(See Tributoxyethyl Phosphate)
Kayazol . . . . .	(See Diazinon)	Kulumus . . . . .	(See Sulfur)
Kaydol . . . . .	(See Mineral Oil)	Kuralon VP . . . . .	(See Polyvinyl Alcohol)
KCA Foodcol Amaranth A . . . . .	(See Bordeaux Mixture)	Kurare OM 100 . . . . .	(See Polyvinyl Acetate)
Keestar . . . . .	(See Starch)	Kurare Poval 1700 . . . . .	(See Polyvinyl Alcohol)
Kel-F . . . . .	(See Fluorolube)	Kurare PVA 205 . . . . .	(See Polyvinyl Alcohol)
Kel-F 200 . . . . .	(See Fluorolube)	Kurate Poval 120 . . . . .	(See Polyvinyl Alcohol)
Kel-F 3 . . . . .	(See Fluorolube)	Kusa-Tohru . . . . .	(See Sodium Chlorate)
Kel-F 6061 . . . . .	(See Fluorolube)	Kusatol . . . . .	(See Sodium Chlorate)
Kel-F 81 . . . . .	(See Fluorolube)	Kypchlor . . . . .	(See Chlorodane)
Kel-F 90 . . . . .	(See Fluorolube)	Kypos . . . . .	(See Malathion)
Kel-F 95/5 . . . . .	(See Fluorolube)	Kyselina 2,3-Dihydroxybutandiova . . . . .	(See Tartaric Acid)
Kel-S . . . . .	(See Fluorolube)	Kyselina Akrylova . . . . .	(See Acrylic Acid)
Kelene . . . . .	(See Ethyl Chloride)	Kyselina Chloroctova . . . . .	(See Chlороacetic Acid)
Kemester 105 . . . . .	(See Methyl Oleate)	Kyselina Duscine . . . . .	(See Nitric Acid)
Kemester 115 . . . . .	(See Methyl Oleate)	Kyselina Dusite . . . . .	(See Nitrous Acid)
Kemester 205 . . . . .	(See Methyl Oleate)	Kyselina Jantarova . . . . .	(See Succinic Acid)
Kemester 213 . . . . .	(See Methyl Oleate)	Kyselina Merkaptooctova . . . . .	(See Thioglycolic Acid)
Kemikal . . . . .	(See Calcium Hydroxide)	Kyselina Methakrylova . . . . .	(See Methacrylic Acid)
Keralyt . . . . .	(See Salicylic Acid)	Kyselina Peroxyoctova . . . . .	(See Peracetic Acid)
Kerasallicyl . . . . .	(See Sodium Salicylate)	Kyselina Pikrova . . . . .	(See Picric Acid)
Kerosal . . . . .	(See Sodium Salicylate)	Kyselina Propionova . . . . .	(See Propionic Acid)
Kerosine . . . . .	(See Kerosene)	Kyselina Thioglykolova . . . . .	(See Thioglycolic Acid)
Kerosine (petroleum) . . . . .	(See Kerosene)	Kyselina Trichloroctova . . . . .	(See Trichloroacetic Acid)
Kessco BSC . . . . .	(See Butyl Stearate)	Kyselina Vinna . . . . .	(See Tartaric Acid)
Kesscoflex . . . . .	(See Di(Butoxyethyl) Phthalate)	L-310 . . . . .	(See Linseed Oil)
Kesscoflex BS . . . . .	(See Butyl Stearate)	Lactobaryt . . . . .	(See Barium Sulfate)
Kesscoflex Tra . . . . .	(See Triacetin)	Laevoral . . . . .	(See Fructose)
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Laughing Gas . . . . .	(See Nitrous Oxide)	9,12-Linoleic Acid . . . . .	(See Linoleic Acid)
Laurel Camphor . . . . .	(See Camphor)	Liquefied Hydrocarbon Gas . . . . .	(See LPG)
Laurostearic Acid . . . . .	(See Lauric Acid)	Liquibarine . . . . .	(See Barium Sulfate)
Lav . . . . .	(See Tar, bituminous)	Liquid Pitch Oil . . . . .	(See Creosote, Coal Tar)
Lavatar . . . . .	(See Tar, bituminous)	Liquid Rosin . . . . .	(See Tall Oil)
Lead(2+) Chloride . . . . .	(See Lead Chloride)	Liquidow . . . . .	(See Calcium Chloride)
Lead(2+) Nitrate . . . . .	(See Lead Nitrate)	Liquigel . . . . .	(See Aluminum Hydroxide)
Lead Bottoms . . . . .	(See Lead Sulfate)	Lisoform . . . . .	(See Formaldehyde)
Lead Dichloride . . . . .	(See Lead Chloride)	Lissamine Amaranth AC . . . . .	(See Bordeaux Mixture)
Lead Dinitrate . . . . .	(See Lead Nitrate)	Lithic Acid . . . . .	(See Uric Acid)
Lead Dross . . . . .	(See Lead Sulfate)	Lithium Monobromide . . . . .	(See Lithium Bromide)
Lead(II) Chloride . . . . .	(See Lead Chloride)	Lithium Sulfate (2:1) . . . . .	(See Lithium Sulfate)
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Lead(II) Nitrate (1:2) . . . . .	(See Lead Nitrate)	Lithographic Stone . . . . .	(See Calcium Carbonate)
Lead(II) Sulfate (1:1) . . . . .	(See Lead Sulfate)	Lo-Bax . . . . .	(See Calcium Hypochlorite)
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Leaf Green . . . . .	(See Chromic Oxide)	Lorol 20 . . . . .	(See Octanol)
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Lemac 1000 . . . . .	(See Polyvinyl Acetate)	LP Gas . . . . .	(See Liquid Petroleum Gas)
Lemol . . . . .	(See Polyvinyl Alcohol)	LPG . . . . .	(See Liquid Petroleum Gas)
Lemol 12-88 . . . . .	(See Polyvinyl Alcohol)	LPG Ethyl Mercaptan 1010 . . . . .	(See Ethyl Mercaptan)
Lemol 16-98 . . . . .	(See Polyvinyl Alcohol)	Lucidol Deltax . . . . .	(See Methyl Ethyl Ketone Peroxide)
Lemol 24-98 . . . . .	(See Polyvinyl Alcohol)	Lunar Caustic . . . . .	(See Silver Nitrate)
Lemol 30-98 . . . . .	(See Polyvinyl Alcohol)	Lupersol . . . . .	(See Methyl Ethyl Ketone Peroxide)
Lemol 5-88 . . . . .	(See Polyvinyl Alcohol)	Lupersol D-x . . . . .	(See Methyl Ethyl Ketone Peroxide)
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Lemon Oil, compressed . . . . .	(See Lemon Oil)	Lutosol . . . . .	(See Isopropyl Alcohol)
Lemon Oil, expressed . . . . .	(See Lemon Oil)	Lutrol . . . . .	(See Glycols)
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Lenitral . . . . .	(See Nitroglycerin)	Lutrol-9 . . . . .	(See Ethylene Glycol)
Leucol . . . . .	(See Quinoline)	Lye . . . . .	(See Caustic Potash)
Leucoline . . . . .	(See Quinoline)	Lye . . . . .	(See Caustic Soda)
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Levugen . . . . .	(See Fructose)	M.E.G. . . . .	(See Glycols)
Levulose . . . . .	(See Fructose)	M176 . . . . .	(See Dimethyl Sulfoxide)
Lewis-Red Devil Lye . . . . .	(See Caustic Soda)	Mach-Nic . . . . .	(See Nicotine)
Libavius Fuming Spirit . . . . .	(See Stannic Chloride)	Macrogol 400 BPC . . . . .	(See Ethylene Glycol)
Lichenic Acid . . . . .	(See Fumaric Acid)	Macrogol 400 BPC . . . . .	(See Glycols)
Light Ligorin . . . . .	(See Petroleum Ether)	Macropaque . . . . .	(See Barium Sulfate)
Limbux . . . . .	(See Calcium Hydroxide)	Magcal . . . . .	(See Magnesium Oxide)
Lime . . . . .	(See Calcium Oxide)	Magchem 100 . . . . .	(See Magnesium Oxide)
Lime Acetate . . . . .	(See Calcium Acetate)	Maglite . . . . .	(See Magnesium Oxide)
Lime Bleach . . . . .	(See Calcium Hypochlorite)	Magnamaster . . . . .	(See Magnesium Carbonate)
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Lime Chloride . . . . .	(See Calcium Hypochlorite)	Magnesia Alba . . . . .	(See Magnesium Carbonate)
Lime Milk . . . . .	(See Calcium Hydroxide)	Magnesia Magna . . . . .	(See Magnesium Hydroxide)
Lime Pyrolignite . . . . .	(See Calcium Acetate)	Magnesia Usta . . . . .	(See Magnesium Oxide)
Lime Slurry . . . . .	(See Calcium Oxide)	Magnesite . . . . .	(See Magnesium Carbonate)
Lime Sulphur . . . . .	(See Lime Sulfur)	Magnesium Carbonate, Precipitated . . . . .	(See Magnesium Carbonate)
Lime, Unslaked . . . . .	(See Calcium Oxide)	Magnesium Diacetate . . . . .	(See Magnesium Acetate)
Lime Water . . . . .	(See Calcium Hydroxide)	Magnesium fluoride . . . . .	(See Magnesium Fluoride)
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2-(2-(2-Methoxypropoxy)Propoxy) Propanol . . . . .	(See Tripropylene Glycol Methyl Ether)
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Methyl 2-Propenoate . . . . .	(See Methyl Acrylate)
Methyl Acetic Acid . . . . .	(See Propionic Acid)
Methyl Acetone . . . . .	(See Methyl Ethyl Ketone)
Methyl Acetylacetate . . . . .	(See Methylacetooacetate)
Methyl Acetylacetone . . . . .	(See Methylacetooacetate)
Methyl Acrylate, Inhibited . . . . .	(See Methyl Acrylate)
Methyl Aldehyde . . . . .	(See Formaldehyde)
Methyl Amyl Alcohol . . . . .	(See Methyl Isobutyl Carbinol)
Methyl Benzenecarboxylate . . . . .	(See Methyl Benzoate)
3-Methyl Butan-2-One . . . . .	(See Methyl Isopropyl Ketone)
Methyl Carbinol . . . . .	(See Ethyl Alcohol)
Methyl Cellosolveat Oleate . . . . .	(See Methoxyethyl Oleate)
Methyl Cellulose Ether . . . . .	(See Methyl Cellulose)
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Methyl Chlorocarbonate . . . . .	(See Methyl Chloroformate)
Methyl Cyanide . . . . .	(See Acetonitrile)
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Methyl Ethoxol . . . . .	(See Methyl Cellosolve)
Methyl Ethyl Ketone Hydroperoxide . . . . .	(See Methyl Ethyl Ketone Peroxide)
Methyl Glycol . . . . .	(See Methyl Cellosolve)
Methyl Hydrazine . . . . .	(See Monomethyl Hydrazine)
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Methyl Hydroxide . . . . .	(See Methyl Alcohol)
Methyl Ketone . . . . .	(See Acetone)
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Methyl Methanoate . . . . .	(See Methyl Formate)
Methyl Nitrobenzene . . . . .	(See p-Nitrotoluene)
Methyl Oxirane . . . . .	(See Propylene Oxide)
Methyl Oxitol . . . . .	(See Methyl Cellosolve)
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Methyl Phenyl Ketone . . . . .	(See Acetophenone)
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Methyl Propenoate . . . . .	(See Methyl Acrylate)
Methyl Toluene . . . . .	(See Xylene)
Methyl Trichloride . . . . .	(See Chloroform)
Methyl (z)-9-Octadecenoate . . . . .	(See Methyl Oleate)
1-Methyl-2-(3-Pyridyl) Pyrrolidine . . . . .	(See Nicotine)
3-Methyl-2-Butanone . . . . .	(See Methyl Isopropyl Ketone)
Methyl-2-Methyl-2-Propenoate . . . . .	(See Methyl Metacrylate)
2-Methyl-2-Pentanol-4-one . . . . .	(See Diacetone Alcohol)
2-Methyl-2-Pentene-4-One . . . . .	(See Methyl Isobutyl Ketone)
2-Methyl-2-Propanethiol . . . . .	(See Tertiary Butyl Mercaptan)
2-Methyl-2-Propanol . . . . .	(See Tertiary Butyl Alcohol)
2-Methyl-2-Propenoic Acid Methyl Ester . . . . .	(See Methyl Metacrylate)
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(s)-3-(1-Methyl-2-Pyrrolidinyl) Pyridine (9CI) . . . . .	(See Nicotine)
(-)-3-(1-Methyl-2-Pyrrolidinyl) Pyridine . . . . .	(See Nicotine)
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1-Methyl-4-Isopropenyl-1-Cyclohexene . . . . .	(See Limonene)
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Methyl-9-Octadecenoate . . . . .	(See Methyl Oleate)
Methyl-a-Methylacrylate . . . . .	(See Methyl Metacrylate)
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Methylene Dibromide . . . . .	(See Methylene Bromide)
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Neo Silox D . . . . .	(See Sodium Chlorite)	Nitrate de propyle normal . . . . .	(See Propyl Nitrate)
Neo-Cleaner . . . . .	(See Chlorox)	Nitrate de sodium . . . . .	(See Sodium Nitrate)
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Neobar . . . . .	(See Barium Sulfate)	Nitric Acid, Calcium Salt . . . . .	(See Calcium Nitrate)
Neobor . . . . .	(See Borax)	Nitric Acid, Concentrated . . . . .	(See Nitric Acid, 100%)
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