



# Chemical Compatibility Chart

## Introduction

The selection of materials that comprise the wetted components of a fluidic system needs to be reviewed for compatibility with the gas or liquid media to be employed. Depending on the type and aggressiveness of the media interacting with these components, swelling, reduced life, decreased performance or catastrophic failure could occur. The following compatibility chart should be referenced to properly select materials for specific fluidic applications.

This information is compiled from a variety of resources based on technical data and tests made available by various chemical, elastomer, and plastic resin suppliers. Recommendations made in this publication shall not constitute a guarantee or warranty of performance nor a modification or alteration of our standard product warranty, which shall be applicable to such products. This guide is believed to be accurate, but due to the many variables, which may affect the compatibility of materials, this information should be considered as a guide only. Actual decisions on material selection need to be thoroughly tested and evaluated by the customer for each specific application. It is the full responsibility of the customer to perform and evaluate the compatibility of materials for their requirements.

## Compatibility Legend

- 1.....Excellent (minimal or no effect)
- 2.....Good (possible swelling and/or loss of physical properties)
- 3.....Doubtful (moderate or severe swelling and loss of physical properties)
- 4.....Not Recommended (severe effect and should not be considered)



Chemical or Media	Metals				Plastics						Elastomers					
	Aluminum 2024	Brass	303/304 Stainless Steel	316 Stainless Steel	Nylon	Polyethylene	Polypropylene	Polysulfone	Polyurethane	Vectra Grade A130	AEPM	EPDM	FFKM (Chemraz®)	FKM (Viton®)	PTFE (Teflon®)	VMQ (Silicone)
Acetaldehyde	1	1	1	1	1	3	1				2	2	1	4	1	1
Acetamide			2	1	1	1	1				1	1	1	3	1	2
Acetanilide													1			
Acetate Solvent (pure)	1	1	1	1	1	1	2				1	1	1	4	1	3
Acetic Acid		4			4			3								3
Acetic Acid, 20%		4		1	4	1	1	1								2
Acetic Acid, 80%		4		1	4	1	1									2
Acetic Acid (dilute)											1	1	1	1	1	
Acetic Acid (glacial)	1	3	3	2	2	2	1	1	4		2	2	1	2	1	2
Acetic Acid (hot, high pressure)											3	3	1	2	1	
Acetic Anhydride	1	4	1	1	1	4	2	4			2	2	1	4	1	3
Acetic Oxide (Acetic Anhydride)											2	2	1	4	1	
Acetone	1	1	1	1	1	2	1	4	4		1	1	1	4	1	4
Acetone Cyanohydrin											4	4	1	4	1	
Acetonitrile				1			3	4			1	1	1	4	1	
Acetophenone				1				4			1	1	1	4	1	
Acetyl Acetone											1	1	1	4	1	
Acetyl Bromide					4											
Acetyl Chloride								4			4	4	1	1	1	
Acetyl Chloride (dry)		4		1	2	4	4				4	4	1	1	1	3
Acetyl Salicylic (Aspirin)											4	4	1		1	
Acetylene		2	1	1	1	4	1	1	1		1	1	1	1	1	2
Acetylene Tetrabromide											1	1	1	1	1	
Acetylene Tetrachloride															1	
Acrolein (Acrylaldehyde)											1	1	1	1	1	
Acrylaldehyde											1	1	1	1	1	
Acrylonitrile		1	1	1	1	1	1				4	4	1	3	1	4
Adipic Acid							2				2	2	1	1	1	
Alcohols: Amyl	1	1	1	1	1						4	4		4	1	4
Alcohols: Benzyl	1	1	1	1	2						1	1	1	1	1	
Alcohols: Butyl	2	1	1	1	4						2	2	1	1	1	2
Alcohols: Diacetone	1	1		1	1						1	1	1	1	1	4
Alcohols: Ethyl	1	1	1	1	1						1	1	1	3	1	2
Alcohols: Hexyl	1	1	1	1	1						3	3	1	1	1	2
Alcohols: Isobutyl	1	1	1	1	1						1	1	1	1	1	1
Alcohols: Isopropyl	1	1	1	1	4						1	1	1	1	1	1
Alcohols: Methyl	1	1	1	1	2						1	1	1	4	1	1
Alcohols: Octyl	1	1	1	1	1						3	3	1	1	1	2
Alcohols: Propyl	1	1	1	1	4						1	1	1	1	1	1
Alkane (Dodecyl Benzene)											2	2	1	1	1	
Alkane Sulfonic Acid											1	1	1		1	
Alkyl Aryl Sulfonate											1	1	1		1	
Alky Alcohol											2	2	1	2	1	
Alkyl Benzene													1	1	1	
Alkyl Chloride													1	1	1	
Allyl Alcohol											2	2	1	2	1	
Allyl Bromide											1	1			2	
Allyl Chloride											1	1			2	
Alum											1	1	1	1	1	
Alum 10%	1	3	1	3									1	2	1	
Alum 100%	1	3	4	1									1	2	1	
Aluminum Acetate		2		1							1	1	1	4	1	
Aluminum Bromide											1	1	1	1	1	
Aluminum Chloride	1	4	4	3	2	2	1		3		1	1	1	1	1	2
Aluminum Chloride 20%		4		3	4	2	1									2
Aluminum Fluoride	4	3	4	3	1	1	1				1	1	1	1	1	2
Aluminum Hydroxide		3	1	3	1	1	1				2	2	1	2	1	
Aluminum Nitrate			3	1	1		1		3		1	1	1	3	1	2
Aluminum Oxide, abrasive		4		1										1	1	
Aluminum Phosphate											1	1	1	1	1	
Aluminum Potassium Sulfate											1	1	1	1	1	
Aluminum Potassium Sulfate, 10%	1	1	3	2	4	1	1				1	1		1		1

Chemical or Media	Metals				Plastics						Elastomers					
	Aluminum 2024	Brass	303/304 Stainless Steel	316 Stainless Steel	Nylon	Polyethylene	Polypropylene	Polysulfone	Polyurethane	Vectra Grade A130	AEPM	EPDM	FFKM (Chemraz®)	FKM (Viton®)	PTFE (Teflon®)	VMQ (Silicone)
Aluminum Potassium Sulfate, 100%	1		3	2	4	1	1				1	1		1		1
Aluminum Salts											1	1	1	1	1	
Aluminum Sodium Sulfate													1	1	1	
Aluminum Sulfate	1	2	1	2	1	1	1				1	1	1	1	1	1
Alums					1		1									1
Amines	2	2	1	1	4	3	2				2	2	1	4	1	2
Aminobenzene (Aniline)											2	2	1	3	1	
Aminobutane (Butyl Amine)											3	3	1	4	1	
Aminosalicyclic Acid													1	1		
Ammonia, 10%				1	1	3	1	3								
Ammonia Nitrate				1	4		1									
Ammonia, anhydrous		4		1	1	2	1		4		1	1	1	4	1	3
Ammonia, liquid				1	2	3	1	1								
Ammonia Gas, cold									3		1	1	1	4	1	
Ammonia Gas, hot									4		2	2	1	4	1	
Ammonia Liquours		4	3	2							1	1		4	1	
Ammonia Nitrate		4	3	2											1	
Ammonium Acetate		4			1		1				1	1	1	1	1	
Ammonium Bicarbonate		4	2	1							1	1	1	1	1	
Ammonium Bifluoride		4	2	1		1	1				2	2	1	2	1	
Ammonium Bisulfite													1		1	
Ammonium Bromide													1		1	
Ammonium Carbonate	1	4	1	2	1	2	1				1	1	1	2	1	3
Ammonium Chloride	1	4	4	4	2	1	1		2		1	1	1	1	1	3
Ammonium Cupric Sulfate											1	1			1	
Ammonium Dichromate											1	1		3	1	
Ammonium Diphosphate		4	1													
Ammonium Fluoride											1	1	1	1	1	
Ammonium Fluosilicate													1		1	
Ammonium Hydrogen Fluoride											2	2	1	2	1	
Ammonium Hydroxide		4		1	1	1	1									1
Ammonium Hydroxide, 10%	1	3	1	1				1			1	1	1	2	1	
Ammonium Hydroxide, 46.5%	1	4	1	1							1	1	1	2	1	
Ammonium Hydroxide, 3 molar											1	1	1	2	1	
Ammonium Hydroxide, conc.											1	1	1	2	1	
Ammonium Iodide													1		1	
Ammonium Monophosphate		4	1	1											1	
Ammonium Nitrate	1	4	1	1	1	1	1				1	1	1	2	1	3
Ammonium Nitrite		4									1	1	1	3	1	
Ammonium Oxalate		4	1	1							1	1	1		1	
Ammonium Perchlorate											1	1				
Ammonium Persulfate	1	4	1	2	4	1	1				1	1	1	3	1	4
Ammonium Phosphate											1	1	1	4	1	
Ammonium Phosphate, Dibasic		2		2	3	1	1									1
Ammonium Phosphate, Monobasic	1	3	3	3	2	1	1				1	1	1	1	1	1
Ammonium Phosphate, Tribasic	1		2	2	2	3	1				1	1	1	1	1	1
Ammonium Salts											1	1	1	3	1	
Ammonium Sulfate	1	4	3	2	1	1	1	1	1		1	1	1	4	1	1
Ammonium Sulfide		4	1	1							1	1	1	4	1	
Ammonium Sulfite					1		1				1	1			1	
Ammonium Thiocyanate											1	1	1	1	1	
Ammonium Thiophosphate	1			1												
Ammonium Thiosulfate	1			1							1	1	1	1	1	
Ammonium Triphosphate		4	1	1												
Amyl Acetate	1	1	1	1	2	3	2	4			3	3	1	4	1	4
Amyl Alcohol	1	1	1	1	1	2	2	1	4		1	1	1	2	1	4
Amyl Alcohol (Pentanol)											1	1	1	2	1	
Amyl Amine													1		1	
Amyl Borate											4	4	1	1	1	
Amyl Chloride	3	3	3	1	3	4	4				4	4	1	3	1	4
Amyl Chloride (Chloropentane)											4	4	1	1	1	
Amyl Chloronaphthalene											4	4	1	2	1	

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Amyl Naphthalene									4		4	4	1	1	1	
Amyl Nitrate													1		1	
Amyl Phenol													1	1	1	
Anhydrous Hydrogen Fluoride											1	1			1	
Anhydrous Hydrazine											1	1			1	
Aniline	3	4	1	2	1	2	1	4			1	1	1	3	1	2
Aniline (Aminobenzene)											2	2	1	3	1	
Aniline Dyes		3	1	1							2	2	1	2	1	
Aniline Hydrochloride		4	4	4	4						3	3	1	2	1	4
Aniline Oil	4	1	1	1							2	2	1	3	1	
Aniline Sulfate													1		1	
Animal Oils & Fats									1		2	2	1	1	1	
Anise Oil				1												
Anisole (Methyl Phenyl Ether)											1	1			3	
Anone (Cyclohexanone)											2	2	1	4	1	
Ansul Ether											3	3		4		
Anthraquinone											1	1				
Antifreeze		2	1	1	4			1			1	1	2	1	1	3
Antimony Pentachloride													1		1	
Antimony Trichloride	2	4	4	3	4	2	1				2	2	1	2	1	
Aqua Regia						2			4		3	3	1	2	1	
Aqua Regia (80% HCl, 20% HNO <sub>3</sub> )	1	4	4	4	4						3	3	1	2	1	4
Argon											1	1	1	1	1	
Argon Gas													1		1	
Arochlor 1248		1	3	2	1	3	4				3	3	1	1		2
Aromatic Fuels											4	4	1	1	1	
Aromatic Hydrocarbons				3							4	4		1	1	4
Arsenic Acid	2	4	1	1	3	2	1		3		1	1	1	1	1	1
Arsenic Salts		4	1	1	1										1	
Arsenic Trichloride											3	3	1	4	1	
Ascorbic Acid													1	1	1	
Askarel											4	4	1	1	1	
Asphalt		2	1	1	1	1	2		2		4	4	1	1	1	4
Asphalt Topping		1	1	1										2	1	
ASTM Fluid 101											4	4	1	1	1	
ASTM Fuel A (aliphatic)									2		4	4	1	1	1	
ASTM Fuel B (30% aromatic)									3		4	4	1	1	1	
ASTM Fuel C (50% aromatic)						1			3		4	4	1	1	1	
ASTM Fuel D											4	4	1	1	1	
ASTM Oil 1 (high aniline)											4	4	1	1	1	
ASTM Oil 2 (medium aniline)											4	4	1	1	1	
ASTM Oil 3 (low aniline)											4	4	1	1	1	
ASTM Oil 4 (high aniline)											4	4	1	1	1	
ASTM Oils No. 1, No. 2, No. 3		1	1	1									1			
Automatic Transmission Fluid											4	4	1	1	1	
Automotive Brake Fluids		1	1	1				4	4	4		1			4	1
Aviation Gasoline		1	1	1				3						1	1	
Barbol B											4	4		1		
Barium Carbonate	1	2	1	2	1	2	1				1	1	1	1	1	
Barium Chlorate											1	1			1	
Barium Chloride	1	2	1	1	1	2	1		1		1	1	1	1	1	1
Barium Cyanide		3	1	1	1	2	4				1	1	1	1	1	
Barium Hydrate											1	1	1	1	1	
Barium Hydroxide	2	4	1	2	1	2	2				1	1	1	1	1	1
Barium Nitrate	1	4	1	2	1	2	1						1	1	1	2
Barium Salts											1	1	1	1	1	
Barium Sulfate	1	3	3	3	1	2	2				1	1	1	1	1	1
Barium Sulfide	1	4	3	3	1	2	2				1	1	1	1	1	1
Bayol 35											4	4		1		
Bayol D											4	4		1		
Beer	1	2	1	1	1	2	1		2		1	1		1	1	1



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Beet Sugar Liquids	1	2	1	1	1	1	1		4		1	1	1	1	1	1
Beet Sugar Liquors											1	1		1		
Benzal Chloride											4	4	1	1	1	
Benzaldehyde	1			3	1	1	4	4			1	1	2	4	1	4
Benzene (Benzol)	1	1	1	2	1	4	4	4	3		4	4	1	1	1	
Benzene Sulfonic Acid					4			4			3	3		1		4
Benzene Sulfonic Acid, 10%											4	4	2	1	1	
Benzine (Ligroin) (Nitrobenzine)		1	1	1					2		4	4	1	1	1	
Benzochloride											1	1	1	1	1	
Benzoic Acid	1	1	1	2	4	2	2				4	4	1	1	1	2
Benzol			1	1	4	3	2				2	2		1		4
Benonitrile								4								1
Benzophenone											2	2	1	1	1	
Benzoyl Chloride											4	4	1	2	1	
Benzoyl Peroxide													1		1	
Benzyl Acetate													1	4	1	
Benzyl Alcohol							1				2	2	1	1	1	
Benzyl Benzoate								4			2	2	1	1	1	
Benzyl Chloride (Chlorotoluene)					1		3	4			4	4	1	2	1	4
Benzyl Dichloride											4	4	1	1	1	
Beryllium Chloride													1		1	
Beryllium Sulfate													1		1	
Bichloride of Mercury															1	
Biphenyl (Phenylbenzene)											4	4	1	1	1	
Bismuth Carbonate											1	1	1	1	1	
Black Liquor								1			2	2		2		
Black Point 77											1	1		1		
Black Sulfate Liquid		3												1	1	
Black Sulfate Liquors (cold)											2	2	1	1	1	
Blast Furnace Gas									4		4	4	1	1	1	
Bleach Liquor		3	1	3	3		1				1	1	1	1	1	2
Boiled Feed Water		1	1	1											1	
Bone Oil				1										1		
Borax (Sodium Borate)	2	2	1	1	1	1			1		1	1	1	1	1	2
Borax Solutions											1	1		1		
Bordeaux Mixture											1	1	1	1	1	
Boric Acid (Boracic Acid)	1	1	2	1	2	1	1		1		1	1	1	1	1	1
Boron Fluids (HEF)											4	4	1	1	1	
Boron Trichloride													1		1	
Brake Fluid		1	1	1				4	4							1
Brake Fluid (glycol base)											1	1	1	4	1	
Brake Fluid (mineral oil base)											4	4	1	1	1	
Brake Fluid (silicone oil base)											1	1	1	4	1	
Bray GG-130											4	4		1		
Brayco 885 (Mil-6085A)											4	4		1		
Brayco 910											1	1		4		
Brine									2		1	1		1		
Brine, abrasive		1	1	1							1	1	1	1	1	
Brine (Salt Water)											2	2	1	1	1	
Brine (Sea Water)											1	1		1		
Bromide											4	4	1	1	1	
Bromine	1	3		4	4	4	4				4	4	1	1	1	4
Bromine Anhydrous											4	4		1		
Bromine Pentafluoride											4	4	2	4		
Bromine Trifluoride											4	4	2	4	4	
Bromine Water									4		2	2	1	1		
Bromobenzene											4	4	1	1	1	
Bromochloromethane											2	2	1	2	1	
Bromochlorotrifluoroethane											4	4	1	1	1	
Bromoethane (Ethyl Bromide)											4	4	1	1	1	
Bromotoluene											1	1			2	
Bromotrifluoromethane											1	1	2	1	1	

# Chemical or Media

	Metals				Plastics						Elastomers					
	Aluminum 2024	Brass	303/304 Stainless Steel	316 Stainless Steel	Nylon	Polyethylene	Polypropylene	Polysulfone	Polyurethane	Vectra Grade A130	AEPM	EPDM	FFKM (Chemraz®)	FKM (Viton®)	PTFE (Teflon®)	VMQ (Silicone)
Bunker 'C' Fuel Oil		1	1	1							4	4	1	1	1	
Bunker Oil						2					4	4	1	1	1	
Butadiene				1	3	4	3				3	3	4	4	1	4
Butadiene Rhitemp	1	1									3	3	1	1	3	
Butane (Butyl Hydride) (LPG)	1	1	1	1	1	3	1		1		4	4	1	1	1	4
Butane, 2, 2-Dimethyl											4	4		1		
Butane, 2, 3-Dimethyl											4	4		1		
Butanediol											1	1	1	1	1	
Butanol (Butyl Alcohol)				1	2	1	1	1			2	2	1	1	1	2
Butene (Butylene)											4	4	1	1	1	
Butoxyethanol (Butyl Cellosolve)											2	2	1	4	1	
Butter			2	1					1		2	2	1	1	1	2
Buttermilk			1	1	2									1	1	1
Butyldiol (Butyl Cellosolve)											1	1	1	2	1	
Butyl Acetate								4			4	4	1	4	1	
Butyl Acetate (room temperature)	1	1	3	3							3	3	1		1	
Butyl Acetyl Ricinoleate											1	1	1	1	1	
Butyl Acrylate											4	4	1	4	1	
Butyl Alcohol (Butanol)						1		1	3		2	2	1	1	1	
Butyl Amine (Aminobutane)				1	1		2				4	4	1	4	1	2
Butyl Benzoate											2	2	1	1	1	
Butyl Bromide													1	2	1	
Butyl Butyrate											1	1	1	1	1	
Butyl Carbitol											1	1	1	3	1	
Butyl Cellosolve (Butoxyethanol)								1			2	2	1	4	1	
Butyl Cellosolve Adipate											2	2		2		
Butyl Chloride (Chlorobutane)													1	2	1	
Butyl Ether					1		4	1			3	3	1	4	1	4
Butyl Hydride (Butane)											4	4	1	1	1	
Butyl Oleate											2	2	1	1	1	
Butyl Phenol											4	4	1	1	1	
Butyl Phthalate (Dibutyl Phthalate)					1		2	4			2	2	1	3	1	1
Butyl Stearate											4	4	1	1	1	
Butylacetate		1		1	1	3	2									4
Butylene (Butene)		1	1	1	2	2			4		4	4	1	1	1	4
Butyraldehyde											2	2	2	4	1	
Butyric Acid	1	3	3	3	3	4	2				2	2	1	2	1	4
Butyric Anhydride													1		1	
Butyrene (Dipropyl Ketone)													1	4	1	
Cadmium Chloride													1		1	
Cadmium Cyanide											1	1		1		
Cadmium Nitrate													1		1	
Cadmium Sulfate													1		1	
Cadmium Liquors											1	1	1	1	1	
Calcine Liquors											1	1		1		
Calcium Acetate											2	2	1	4	1	
Calcium Arsenate											1	1		1		
Calcium Bisulfate		3	1	1							1	1	1	1	1	3
Calcium Bisulfide	1		3	3	1		1				1	1			1	3
Calcium Bisulfite	1	3		1	1	1	1				4	4	1	1	1	1
Calcium Bromide													1		1	
Calcium Carbonate				2	1	2	1				1	1	1	1	1	1
Calcium Carbonate Slurry	1	1	1	1										1	1	
Calcium Chlorate											1	1	1	1	1	
Calcium Chlorate (dilute)			3	1											1	1
Calcium Chloride	1	3	1	2	1	2	1		1		1	1	1	1	1	1
Calcium Cyanide											1	1	1	1	1	
Calcium Hydrosulfide													1	1	1	
Calcium Hydroxide				2	1	2	1		2		1	1	1	1	1	1
Calcium Hydroxide, 10%	1	1	1	1							1	1	1	1	1	
Calcium Hydroxide, 50%				3										1	1	
Calcium Hypochloride											1	1	1	1	1	

Chemical or Media	Metals				Plastics						Elastomers					
	Aluminum 2024	Brass	303/304 Stainless Steel	316 Stainless Steel	Nylon	Polyethylene	Polypropylene	Polysulfone	Polyurethane	Vectra Grade A130	AEPM	EPDM	FFKM (Chemraz®)	FKM (Viton®)	PTFE (Teflon®)	VMQ (Silicone)
Calcium Hypochlorite	1	3	3	3	4	2	1				1	1	1	1	1	2
Calcium Nitrate				3	1		1		1		1	1	1	1	1	2
Calcium Oxichloride											2	2	1	1	1	
Calcium Oxide					2		1				1	1	1		1	1
Calcium Permanganate											1	1			1	
Calcium Phosphate											1	1	1	1	1	
Calcium Salts											1	1	1	1	1	
Calcium Salts (abrasive)														1	1	
Calcium Silicate											1	1	1	1	1	
Calcium Sulfate (Gypsum)	1	1	1	2	4	2	1				1	1	1	1	1	
Calcium Sulfhydrate											1	1			1	
Calcium Sulfide							1				1	1	1	1	1	
Calcium Sulfite											1	1	1	1	1	
Calcium Thiosulfate											1	1	1	1	1	
Calgon				1	1		1				1	1		1		1
Caliche Liquors											1	1	1	1	1	
Camphor											4	4	1	2	1	
Cane Juice					1											1
Cane Sugar Liquor			1	1					4		1	1	1	1	1	
Capric Acid (Caporic Acid)													1		1	
Caproic Aldehyde											2	2	1	4	1	
Caprolactam											1	1		3		
Capryl Alcohol (Octanol)											1	1	1	1	1	
Carbamate											2	2	1	1	1	
Carbinol (Methanol)											1	1	1	1	1	
Carbitol								1			2	2	1	2	1	
Carbolic Acid (Phenol)	1	4	2	2	4	4	2		3		2	2	1	1	1	4
Carbon Bisulfide			1	2	1		4				4	4	1	1	1	
Carbon Dioxide	1	1	1	1		2			1		2	2	1	1	1	
Carbon Dioxide, dry		2		1	1	3	1				2	2	1	2	1	2
Carbon Dioxide, wet				1	1	3	1				2	2	1	2	1	2
Carbon Disulfide	3	2	1	2	2	3	4				4	4	1	1	1	
Carbon Monoxide			1	1	1	2	1		1		2	2	1	1	1	1
Carbon Tetrachloride				2	4	4	4	4	4		4	4	2	1	1	4
Carbon Tetrachloride (dry)		1					4									4
Carbon Tetrachloride (wet)		2					4									4
Carbonated Water		4		1	1	1	2									
Carbonic Acid	2	4	1	2	1	2	1		4		1	1	1	1	1	1
Castor Oil	1	1	1	1		1			1		2	2	1	1	1	
Catsup			1	1	1						3	3		1		
Caustic Potash											1	1	1	2	1	
Casutic Soda											1	1	1	1	1	
Cellosolve				1							2	2	1	4	1	
Cellosolve, acetate											2	2	1	4	1	
Cellosolve, butyl											2	2	1	4	1	
Cellosolve, methyl											2	2	1	4	1	
Celluguard											1	1		1		
Cellulose															1	
Cellulose Acetate (CA)											2	2	1	4	1	
Cellulube			1	1							1	1		1		
Cellulube A60											2	2		4		
Cellutherm 2505A											4	4		1		
Cetane (Hexadecane)											4	4	1	1	1	
Cetyl Alcohol													1		1	
China Wood Oil (Tung Oil)			1	1							4	4	1	1	1	
Chloral Hydrate											3	3	2	3	1	
Chloramine-T											1	1	1		1	
Chlordane											4	4	1	1	1	
Chlorextol											4	4	1	1	1	
Chloric Acid		4			4						1	1				1
Chlorinated Biphenyl													1	1	1	
Chlorinated Brine											4	4	1	1	1	



Chemical or Media	Metals				Plastics						Elastomers					
	Aluminum 2024	Brass	303/304 Stainless Steel	316 Stainless Steel	Nylon	Polyethylene	Polypropylene	Polysulfone	Polyurethane	Vectra Grade A130	AEPM	EPDM	FFKM (Chemraz®)	FKM (Viton®)	PTFE (Teflon®)	VMQ (Silicone)
Chlorinated Lime			1	1							2	2	1	1	1	
Chlorinated Salt Brine											4	4		1		
Chlorinated Salt Brine-abrasive	1		3	3							3	3	1	1	1	
Chlorinated Solvents		1		3							4	4	1	1	1	
Chlorinated Solvents (dry)											4	4		1		
Chlorinated Solvents (wet)											4	4		1		
Chlorine, anhydrous liquid	1	4	3	3	4	2	4				4	4	2	2	1	4
Chlorine (dry)		4		2	4	3	4	4	4		4	4	1	1	1	4
Chlorine (wet)						3		4	4		2	2	1	4	1	
Chlorine Dioxide											3	3	1	2	1	
Chlorine Trifluoride											4	4	2	4	4	
Chlorine Water		4		3	3	2	4	3		1	2	2		1		4
Chloroacetic Acid		4		1	4	3	3				2	2	1	4	1	4
Chloroacetone				1							4	4	1	4	1	
Chloroaniline											2	2		3		
Chlorobenzene	1	2	1	2	4	3	3	4			2	2	1	1	1	4
Chlorobromomethane				1	3		1				4	4	1	3	1	4
Chlorobutadiene (Chloroprene)				1							4	4	1	2	1	
Chlorobutane (Butyl Chloride)											1	1	1	4	1	
Chlorodecane													1	1		
Chlorodifluoromethane											4	4		1		
Chlorodiphenyl											4	4	1	1	1	
Chlorododecane											4	4	1	1	1	
Chloroethylene (Vinyl Chloride)											4	4	1	1	1	
Chloroform	1	2	1	1	1	4	3	4	4		4	4	1	1	1	4
Chlorohydrin											1	1		1		
Chloronaphthalene											4	4		1	3	
Chloronitroethane											1	1	1	1	2	
Chloropentafluoroethane											1	1			2	
Chloropentane (Amyl Chloride)											4	4	1	1	1	
Chlorophenol, 5%				1				4					1		1	
Chloroprene (Chlorobutadiene)											4	4	1	1	1	
Chlorosulfonic Acid		2		1	4								1			4
Chlorothene (Trichloroethane)											4	4	1	1	1	
Chlorotoluene (Benzyl Chloride)													2	1	1	
Chlorotrifluoroethylene (CTFE)											1	1	2	3	1	
Chlorotrifluoromethane											2	2	1	1	1	
Chlorox			1	1					4		2	2	1	3	1	
Chocolate Syrup			1	1	1									1	1	
Chrome Alum											2	2		1		
Chrome Plating Solution											2	2	1	1	1	
Chromic Acid										3	2	2		1		
Chromic Acid, 10%		4		2	4	1	4	1								3
Chromic Acid, 30%	1	4	3	3	4	1	4				3	3	1	1	1	3
Chromic Acid, 5%	1	4	3	3	4	2	4				3	3	1	1	1	3
Chromic Acid, 50%	1	4	3	2	4	1	4		4		3	3	1	1	1	3
Chromic Oxide (aqueous)											2	2	1	1	1	
Chromium Potassium Sulfate											2	2		1		
Chromium Salts					2											
Chromium Sulfate											1	1	1	1	1	
Cider			1	1	1									1	1	2
Cinnamon Oil			1	1				3						1		
Circo Light Process Oil											4	4		1		
Citric Acid	1	4	1	1	1	1	1	3	1		1	1	1	1	1	1
Citric Oils			1	1										1	1	
Citrus Pectin Liquor			1	1										1	1	
City Service 65, 120, 250											4	4		1		
City Service Kool Motor Oil No. 140											4	4		1		
City Service Pacemaker No. 2											4	4		1		
Clorox (Bleach)				1	1		4									
Clove Oil								4						1	1	
Coal Tar									3		4	4	1	1	1	

Chemical or Media

	Metals				Plastics						Elastomers					
	Aluminum 2024	Brass	303/304 Stainless Steel	316 Stainless Steel	Nylon	Polyethylene	Polypropylene	Polysulfone	Polyurethane	Vectra Grade A130	AEPM	EPDM	FFKM (Chemraz®)	FKM (Viton®)	PTFE (Teflon®)	VMQ (Silicone)
Cobalt Chloride											3	3	1	1	1	
Cocoa Butter															1	
Coconut Oil		1	1	1		1			2		3	3	1	1	1	
Cod Liver Oil			1	1		1			1		1	1	1	1	1	
Coffee			1	1	1		1				4	4	1	1	1	1
Coke Oven Gas									4		4	4	1	1	1	
Coliche Liquors											4	4	1	1	1	
Convelex 10											3	3		1		
Coolanol											4	4	1	4	1	
Coolanol 25, 45											4	4		1		
Copper Acetate				1							4	4	1	1	1	
Copper Ammonium Acetate													1		1	
Copper Carbonate											1	1	1	1	1	
Copper Chloride	1	3		4	4	2	1		1		1	1	1	1	1	1
Copper Cyanide	1	4	1	2	4	2	1		1		1	1	1	1	1	1
Copper Fluborate														1	1	
Copper Nitrate	2	4	1	2	4	2	1				2	2	1	1	1	
Copper Salts											1	1	1	1	1	
Copper Salts (abrasive)													1	1	1	
Copper Sulfate											1	1		1		
Copper Sulfate, >5%		4		2	4	2	1									1
Copper Sulfate, 5%	1	4	1	2	4	2	1				1	1	1	1	1	1
Copper Sulfate, 10%											1	1	1	1	1	
Copper Sulfate, 50%													1	1	1	
Copper Sulfide											3	3	1	1	1	
Corn Oil			1	1		1		1	1		3	3	1	1	1	
Cottonseed Oil	1	1	1	1		1		1	1		4	4	1	1	1	
Cream			1	1	1		1							1	1	
Creosote (coal tar)											4	4	1	1	1	
Creosote (wood tar)											4	4	1	1	1	
Creosote Oil	1	1	1	1									1	1	1	
Cresol (Cresylic Acid)				1	4	3	4				2	2	1	2	1	4
Cresol (Methyl Phenol)											4	4		1		
Cresols					4											4
Cresylic Acid	1	3	1	1	4	2	1				4	4		1		
Crotonaldehyde											1	1		4	3	
Crotonic Acid											4	4	1	1	1	
Crude Oil				3							4	4	1	1	1	
Cumene (Isopropyl Benzene)											4	4	1	1	1	
Cupric Acid					4		1									1
Cupric Chloride (Copper Chloride)											4	4	1	1	1	
Cupric Sulfate											1	1		1		
Cuprous Ammonia Acetate															1	
Cutting Oil											4	4	1	1	1	
Cutting Oil (water soluble)		1	1	1										1	1	
Cutting Oil (sulfur base)		1	1	1											1	
Cyanic Acid			1	1										1		1
Cyanic Compounds															1	
Cyanogen											1	1			1	
Cyanogen Chloride											3	3		2		
Cyclehexamone											1	1			1	
Cyclohexane	1	1		1	1	2	4				4	4	1	1	1	4
Cyclohexanol				1							4	4	1	4	1	
Cyclohexanone				1	1			4			4	4	1	4	1	4
Cyclohexylamine											1	1				
Cyclopentane											4	4	1	1	1	
Cymene (Isopropyltoluene)											4	4	1	1	1	
Decahydronaphthalene											4	4	1	1	1	
Decalin											4	4	1	4	1	
Decanal											4	4	1	1	1	
Decane											4	4	1	2	1	
Decanol (Decyl Alcohol)											1	1	1	1	1	

Chemical or Media	Metals				Plastics						Elastomers					
	Aluminum 2024	Brass	303/304 Stainless Steel	316 Stainless Steel	Nylon	Polyethylene	Polypropylene	Polysulfone	Polyurethane	Vectra Grade A130	AEPM	EPDM	FFKM (Chemraz®)	FKM (Viton®)	PTFE (Teflon®)	VMQ (Silicone)
Deionized Water			1	1									1	1	1	
Delco Brake Fluid											1	1		4		
Denatured Alcohol			1	1					4		4	4	1	1	1	
Denatured Solution											2	2	1	1	1	
Detergent Water Solutions	1		1	1							1	1		1	1	
Detergent Solutions						1			3		1	1		1		
Detergents				1	1	1	1									1
Developing Fluid (photographic)											4	4	1	1	1	
Dextron											4	4	1	1	1	
Dextrose											1	1	1	4	1	
DI Water											2	2		2		
Diacetone (Diacetone Alcohol)		1	1	1	1	2	1				4	4	1	4	1	4
Diamylamine											1	1	1		1	
Diaznon											2	2	1	4	1	
Dibenzyl Ether				1							2	2	1	4	1	
Dibenzyl Sebacate											4	4	1	2	1	
Dibromoethyl Benzene											4	4	1	4	1	
Dibutyl Amine											3	3	1	3	1	
Dibutyl Ether				1							3	3	1	3	1	
Dibutyl Phthalate (DBP)											2	2	1	3	1	
Dibutyl Sebecate (DBS)											3	3	1	3	1	
Dibutylamine											4	4		4		
Dichloroacetic Acid											1	1	4	4	1	
Dichlorobenzene					4		3				4	4	1	1	1	
Dichlorobenzene					4								1	1	1	4
Dichlorobutane											4	4	1	2	1	
Dichlorodifluoromethane											2	2	2	4	4	
Dichloroethane	2	2	1	2	1	3	4						1	1	1	
Dichloroisopropyl Ether											3	3	1	3	4	
Dichloropentane														1	1	
Dichlorotetrafluoroethane											4	4	1	4	1	
Dicyclohexylamine											4	4	1	4	1	
Diesel Fuel	2	1	1	1	1	3	1						1	1	1	4
Diesel Oil		1				3			2		4	4	1	1	1	
Diester Lubricant (Mil-L-7808)											4	4		1		
Diester Synthetic Lubricant											4	4		1		
Diethanol Amine (DEA)											1	1	4	4	4	
Diethanolamine											1	1	1		1	
Diethyl Amine											1	1			1	
Diethyl Aniline											1	1			1	
Diethyl Benzene											1	1		1	1	
Diethyl Carbonate											3	3	1	3	1	
Diethyl Ether		3	3	3	1		1	3			4	4	1	4	3	4
Diethyl Formaldehyde											1	1			1	
Diethyl Hydrazine											1	1			1	
Diethyl Maleate											1	1			1	
Diethyl Phthalate (DEP)											3	3	1	2	1	
Diethyl Sebacate											3	3	1	4	1	
Diethyl Sulfate											2	2	1	3	1	
Diethylamine		1		2	1	4	1				2	2		4		2
Diethylbenzene											4	4	1	1		
Diethylene Ether (Dioxane)											1	1	1	1	1	
Diethylene Glycol (Digol)	1	3	3	2	1	2	1	4			1	1	1	2	1	2
Diethylene Triamine											1	1	1		1	
Difluorodibromomethane											1	1	4	4	4	
Diisobutyl Ketone											1	1	2	4	1	
Diisobutylene			1								1	1	1	1	1	
Diisodecyl Phthalate (DIDP)											1	1			3	
Diisooctyl Adipate (DIOA)											1	1			3	
Diisooctyl Phthalate (DIOP)											1	1		4	2	
Diisooctyl Sebecate (DIOS)											1	1	4	4	4	
Diisopropyl Amine											1	1	4	4	1	

Chemical or Media	Metals				Plastics						Elastomers					
	Aluminum 2024	Brass	303/304 Stainless Steel	316 Stainless Steel	Nylon	Polyethylene	Polypropylene	Polysulfone	Polyurethane	Vectra Grade A130	AEPM	EPDM	FFKM (Chemraz®)	FKM (Viton®)	PTFE (Teflon®)	VMQ (Silicone)
Diisopropyl Benzene											1	1	4	4	4	
Diisopropyl Ketone											1	1	4	4	4	
Dimethyl Amine (DMA)											1	1	4	4	4	
Dimethyl Aniline					1		4				3	3	1	4	1	4
Dimethyl Ether													1	1		
Dimethyl Formamide (DMF)			1	1		1	4		1		4	4	1	4	1	3
Dimethyl Ketone (Acetone)											2	2	1	2	1	
Dimethyl Phthalate			1								2	2	1	2	2	
Dimethyl Sulfide											4	4	1	3	1	
Dimethyl Sulfoxide (DMSO)							1	4			1	1		3		
Dinitrochloro Benzene													1	1	1	
Dinitrotoluene (DNT)			1	1							4	4	1	4	1	
Diocetyl Phthalate (DOP)								1			2	2	1	2	1	
Diocetyl Sebacate											2	2	1	4	1	
Dioxane						3			4		2	2	1	4	1	
Dioxolane											4	4	1	4	1	
Dipentene (Limonene)											4	4	1	1	1	
Diphenyc (chlorinated)														1	1	
Diphenyc (oxides-abrasive)		1	1	1										1	1	
Diphenyl (Phenylbenzene)		2									4	4	1	1	1	4
Diphenyl Oxide (Phenyl ether)	1		1	1			4				4	4	1	4	1	3
Dipropyl Ketone (Butyrene)											1	1				
Dipropylamine											1	1			1	
Dipropylene Glycol											4	4	1	2	1	
Divinyl Benzene (DVB)													1	1	1	
Dodecyl Benzene (Alkane)															1	
Dow Chemical 50-4, ET588											1	1		4		
Dow Chemical ET 378											3	3		3		
Dow Corning 1208, 4050, 6620, F-60, XF-60											1	1		1		
Dow Corning 3, 4, 11											1	1		1		
Dow Corning 5, 33, 44, 200, 220, 510, 550, 705, 710											1	1		1		
Dow Corning 55											1	1		1		
Dow Corning F-61											1	1		1		
Dow Guard											1	1		1		
Dowtherm 209											1	1		4		
Dowtherm A											4	4		1		
Dowtherm E											4	4		1		
Dowtherm Fluids			1	1									1	1		
Drinking Water											4	4	2	1	1	
Dry Cleaning Fluids									4		4	4	1	1	1	
Dyes		1			1											
Dyes, abrasive			1	1										2		
Dyes, water based			1	1										1	1	
DTE Light Oil											4	4	2	4	1	
Elco 28 EP Lubricant											4	4		1		
Embalming Fluids			1	1											1	
Epichlorohydrin				1							2	2	1	4	1	
Epoxy Resin											1	1	1	4	1	
Epsom Salts	1	1	1	2	1	1	1				2	2	1	4	1	1
Esam-6 Fluid											1	1		4		
Esso Fuel 208											4	4		1		
Esso Golden Gasoline											4	4		1		
Esso Motor Oil											4	4		1		
Esso Transmission Fluid (Type A)											4	4		1		
Esso WS2812 (Mil-L-7808A)											4	4		1		
Esso XP90-EP Lubricant											4	4		1		
Esstic 42, 43											4	4		1		
Ethanal (Acetaldehyde)											1	1	1	3	1	
Ethane				1	4		4		1		3	3	1	1	1	4
Ethane Gas			1	1									1	1	1	
Ethanethiol (Ethyl Mercaptan)											1	1	1	1	1	

Chemical or Media	Metals				Plastics						Elastomers						
	Aluminum 2024	Brass	303/304 Stainless Steel		316 Stainless Steel	Nylon	Polyethylene	Polypropylene	Polysulfone	Polyurethane	Vectra Grade A130	AEPDM	EPDM	FFKM (Chemraz®)	FKM (Viton®)	PTFE (Teflon®)	VMQ (Silicone)
Ethanol		1		1	1	2	1	4				2	2	1	4	1	2
Ethanol Amine												3	3	1	3	1	
Ethanolamine	2		1	1	1		4					2	2	1		1	2
Ether		2		2	1	3	4	4				2	2	1	4	1	4
Ether Compounds	1	1	1	1								1	1	1		1	
Ethyl Acetate	1	2	1	2	1	3	3	4		1		2	2	4	4	4	2
Ethyl Acetoacetate												3	3	1	4	1	
Ethyl Acrylate				1					4			3	3	1	4	1	
Ethyl Acrylic Acid												1	1	1	1	1	
Ethyl Alcohol		1				2			4			1	1	1	3	2	
Ethyl Aluminium Dichloride												1	1			4	
Ethyl Amine (Monethylamine)												1	1	1	1	1	
Ethyl Benzene												4	4	1	1	1	
Ethyl Benzoate							2					4	4	1	1	1	4
Ethyl Bromide (Bromoethane)												1	1	1		4	
Ethyl Butyl Acetate												1	1			4	
Ethyl Butyraldehyde												1	1			3	
Ethyl Butyrate												2	2	1	4	1	
Ethyl Cellosolve												1	1	1	4	4	
Ethyl Cellulose									2			2	2	1	1	1	
Ethyl Chloride	1	1	1	1	1	4	4		4			4	4	1	1	1	4
Ethyl Chlorocarbonate												4	4	1	1	1	
Ethyl Chloroformate												3	3	1	1	1	
Ethyl Cyanide (Propionitrile)												4	4	1	1	1	
Ethyl Cyclopentane												4	4	1	3	1	
Ethyl Dichloride												3	3		1	1	
Ethyl Ether (Ether)		2	1	1	1	4	4		3			4	4	2	4	1	4
Ethyl Formate												2	2	1	3	1	
Ethyl Hexanol												1	1	1	4	4	
Ethyl Hexyl Acetate												1	1	1	1	1	
Ethyl Hexyl Alcohol																2	
Ethyl Iodide												3	3	1	1	1	
Ethyl Mercaptan (Ethanethiol)												3	3	1	2	1	
Ethyl Oxalate												1	1	3	1	1	
Ethyl Pentachlorobenzene												1	1	1	1	1	
Ethyl Pyridrine														1		1	
Ethyl Silicate												1	1	1	2	1	
Ethyl Sulfate												2	2	1	4	1	
Ethyl Tertiary Butyl Ether												3	3		3		
Ethylene (Ethene)												1	1	1	1	1	
Ethylene Alcohol												1	1			1	
Ethylene Bromide							4					4	4	1	1	1	4
Ethylene Chloride	2	3	1	1	1	4	3	4	4			3	3	1	2	1	4
Ethylene Chlorohydrin		2				4		4				2	2	2	4	1	3
Ethylene Diamine		4		1	4					3		1	1		4	1	1
Ethylene Dibromide												4	4	1	1	1	
Ethylene Dichloride	2	3	1	1	1	3	4					3	3	2	1	1	4
Ethylene Gas												2	2	1	1	1	
Ethylene Glycol (Antifreeze)	1	2	1	1	1	1	1	1	2			3	3	1	4	1	1
Ethylene Oxide (ETO)		4	3	3	1	3	4	1	4			4	4	1	4	1	4
Ethylene Trichloride						4			4			3	3	1	1	1	
Ethylenediamine												1	1	2			
Ethyne (Acetylene)												3	3	1	1	1	
F60 Fluid (Dow Corning)												1	1		1		
F61 Fluid (Dow Corning)												1	1				
Fatty Acids	1	3	1	1	1	1	1					3	3	1	1	1	3
FC 75												1	1		2		
FC-43 Heptacosofluorotributylamine												1	1		1		
Ferric Chloride	1	4		3	1	2	1		1			1	1	1	1	4	2
Ferric Hydroxide												1	1	1	1	1	
Ferric Nitrate	1	4	1	1	1	2	1		1			1	1	1	1	1	3
Ferric Oxide (abrasive)															1	1	

# Chemical or Media

	Metals				Plastics						Elastomers					
	Aluminum 2024	Brass	303/304 Stainless Steel	316 Stainless Steel	Nylon	Polyethylene	Polypropylene	Polysulfone	Polyurethane	Vectra Grade A130	AEPM	EPDM	FFKM (Chemraz®)	FKM (Viton®)	PTFE (Teflon®)	VMQ (Silicone)
Ferric Persulfate											1	1		1		
Ferric Sulfate	1	4	3	3	1	1	1		2		1	1	1	1	1	2
Ferrous Chloride	1	4		3	4	1	1				1	1	1	1	1	
Ferrous Sulfate	1	3	1	2	4	1	1				4	4	1	3	1	
Fiberglass Resin- unknown variables		3														
Fish Oil											1	1	1	1	2	
Fluoboric Acid (Fluoroboric Acid)				3	4	2	1				2	2	4	4	2	
Fluorinated Cyclic Ether											1	1			1	
Fluorine		1		3	4	3	4		4		1	1	2	4	3	4
Fluoro Benzene														1	1	
Fluorobenzene												1		4	3	
Fluoroboric Acids			3	3							1	1	1	1	1	
Fluorocarbon Oils											1	1				
Fluorochloroethylene											1	1	1	1	1	
Fluorol (Sodium Flouride)											1	1	2	2	1	
Fluorolube (Fluorocarbon Oils)											2	2	2	2	1	
Fluorosilicic Acid		3	3	2	4	2	1				2	2	1	4	1	
Formaldehyde	2	1	1	1		2			4		2	2	1	4	3	
Formaldehyde, 100%				1	4	2	3									2
Formaldehyde, 40%		1		1	1	1	1				2	2	2	3	1	
Formamide											4	4	2	3	1	
Formic Acid	3	4	3	3	4	2	1		4		2	2	2	4	1	2
Freon® 11 (Feron MF)	2		3	3	4	3	1	1	4		4	4	1	3	1	4
Freon® 112 (Freon BF)											4	4	3	2	1	
Freon® 113 (Freon TF)	3			1				1			4	4	3	3	1	4
Freon® 113, high & low aniline oil							4				4	4		2		
Freon® 114											1	1	3	2	1	
Freon® 114b2											4	4	2	4	1	
Freon® 115											3	3		2	2	
Freon® 12		2			1	3	1		1		2	2	2	2	1	4
Freon® 12, ASTM No. Oil (50/50)											4	4		1		
Freon® 12 (wet)	2										2	2		1	1	
Freon® 13		1									1	1		1	1	
Freon® 13b1											2	2	2		4	
Freon® 134a											2	2				
Freon® 142b											4	4		2		
Freon® 152a											1	1				
Freon® 14											2	2	1	4	4	
Freon® 21											2	2			4	
Freon® 218											1	1		1		
Freon® 22	1			1	2		2		4		1	1	2	4	1	4
Freon® 31											4	4	2	1	1	
Freon® 32											4	4	3	4	1	
Freon® 502											1	1	3	2	1	
Freon® C316											4	4	3	2	1	
Freon® C318											3	3		2	4	
Freon® K-142b											4	4	3	2		
Freon® K-152a											1	1	2	1	1	
Freon® PCA											4	4		2	1	
Freon® T-P35											1	1	3	3		
Freon® T-WD602											2	2		1	1	
Freon® TA											2	2		3	1	
Freon® TC											4	4	1	1	1	
Freon® TF	2		3	3	4		4				4	4		3		4
Freon® TMC											2	2	2	1	1	
Fruit Juice	1	4	1	1	1						1	1	4	4	4	
Fuel Oil	1	3	1	1	1	3	1		2		4	4	1	1	1	4
Fumaric Acid											2	2	2	4	1	
Fuming Sulfuric Acid											4	4		4		
Furan (Furfuran)		1	1	1							4	4	1	4	1	
Furan Resin																4
Furfural (Furfuraldehyde)	1		2	2	2	3	4	4			2	2	1	4	1	4

# Chemical or Media

	Metals				Plastics						Elastomers					
	Aluminum 2024	Brass	303/304 Stainless Steel	316 Stainless Steel	Nylon	Polyethylene	Polypropylene	Polysulfone	Polyurethane	Vectra Grade A130	AEPM	EPDM	FFKM (Chemraz®)	FKM (Viton®)	PTFE (Teflon®)	VMQ (Silicone)
Furfuryl Alcohol											2	2	4	4	1	
Furycabinol											2	2		4		
Fyrquel 90, 100, 150, 220, 300, 500, 550											1	1		1		
Fyrquel A60											2	2		4		
Gallic Acid	1	3	3	3	1	2	1				4	4	1	1	1	4
Gasohol											1	1	1	1	1	
Gasoline							3	3			4	4	1	1	1	
Gasoline Heat (low lubricity)	2	1	1	1									1	1	1	
Gasoline (high, aromatic)				1	1	4	1		3							4
Gasoline, leaded, ref				1	1		2									4
Gasoline, unleaded				1	1		3			1						4
Gelatin	1	4	1	1	1	1	1				1	1		1	1	1
Ginger Oil			1	1										1		
Glacial Acetic Acid											1	1	1	3	1	
Glauber's Salt											2	2	1	1	1	
Gluconic Acid											2	2	1	1	1	
Glucose	1	1	1	1	1	1	1				1	1	1	1	1	1
Glue, P.V.A.				1	1	1			1							1
Glue Sizing		1	1	1							1	1	1	1	1	
Glycerin				1	1	1	1	3	1							1
Glycerine (Glycerol)	1	1	1	1			1	1			1	1	2	1	1	
Glycine											1	1			1	
Glycolic Acid	2			1		1	1				4	4	1	1	1	1
Glycols									4		1	1	1	1	1	
Glycolmonoethylether											1	1	2	1	1	
Gold Monocyanide			1	1										1		
Grape Juice	1		1	1	1			1						1	1	1
Grapefruit Oil			1	1											1	
Grease (petroleum base)		1		1							4	4	2	1	1	4
Green Sulfate Liquor									1		4	4	2	1	1	
Gulf Endurance Oils											4	4		1		
Gulf FR Fluids (emulsion)											4	4		1		
Gulf Harmony Oils											4	4		1		
Gulf High Temp Grease											4	4		1		
Gulf Legion Oils											4	4		1		
Gulf Paramont Oils											4	4		1		
Gulf Security Oils											4	4		1		
Gulfcrown Grease											4	4		1		
Halothane											4	4	1	1	1	
Halowax Oil											4	4	1	1	1	
Hannifin Lube A											4	4		1		
Heavy Water											1	1	1	2	1	
HEF-2 (high energy fuel)											4	4		1	2	
Helium											4	4	1	1	1	
Heptanal											1	1				1
Heptane	1	1	1	1	1	2	1				4	4	1	1	1	4
Hexachloroacetone											1	1	1	4	1	
Hexachlorobutadiene											4	4	1	1	1	
Hexadecane (Cetane)											1	1				
Hexalin (Cyclohexanol)											4	4	1	1	1	
Hexamine											2	2	1	1	1	
Hexane (n-Hexane)	1	1	1	1	2	3	4				1	1	2	1	1	4
Hexanedioic Acid (Adipic acid)											3	3	1	4	1	
Hexanol											1	1	2	1	1	
Hexone (MIBK)											4	4	1	1	1	
Hexyl Alcohol		1									4	4	1	1	1	
Hexylene (n-Hexene)											1	1	2	4	1	
Hi-Lo MS No. 1											1	1		4		
High Viscosity Lubricant H2											1	1		1		
High Viscosity Lubricant U4											1	1		1		
Honey				1	1	2	1							1	1	1
Houghto-Safe 271 (Water & Glycol)											1	1		2		



Chemical or Media

	Metals				Plastics						Elastomers					
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Houghto-Safe 620 (Water & Glycol)											1	1		2		
Hydraulic Oil (petroleum, aircraft)											4	4		1		
Hydraulic Oil (petroleum base)		1	1	1	1						2	2	2	4	1	2
Hydraulic Oil (synthetic)		1			1											2
Hydrazine (Diamine)				1			3				1	1	1	4	1	2
Hydrazine, alcohol based			1	1							1	1	1		3	
Hydrazine , anhydrous											1	1	1	1	1	
Hydrazine, water based				1	1						1	1	1		3	
Hydrobromic Acid	1	3									2	2	1	1	1	
Hydrobromic Acid, 100%		4		4	4	2	3									4
Hydrobromic Acid, 20%		4		4	4	2	1	1								4
Hydrobromic Acid, 37% cold											1	1		1		
Hydrobromic Acid, 37% hot											3	3		1		
Hydrocarbons, light		1											1		1	
Hydrochloric Acid (Muratic Acid)	3		3	3							1	1	1	1	1	
Hydrochloric Acid, 100%		4		4	4		2	1								4
Hydrochloric Acid, 20%				4	4	1	2									4
Hydrochloric Acid, 3 molar											3	3	1	1	1	
Hydrochloric Acid, 30%-37%	3										1	1	1	1	1	
Hydrochloric Acid, 37%				4	4	2	3	1		3						2
Hydrochloric Acid, 37% (cold)						2			4		2	2	1	1	1	
Hydrochloric Acid, 37% (hot)									4		1	1	1	1	1	
Hydrochloric Acid (concentrated)											3	3	1	2	1	
Hydrochloric Acid (dry gas)		4		4	1	1	2									
Hydrocyanic Acid	1	4	1	2	2	1	1				1	1	1	1	1	3
Hydrocyanic Acid (gas 10%)																4
Hydrofluoric Acid, <50%											1	1	1	2	3	
Hydrofluoric Acid, >50%											3	3	1	1	1	
Hydrofluoric Acid, 100%				2	4		3									4
Hydrofluoric Acid, 20%				4	3	1	1									4
Hydrofluoric Acid, 50%				4	4	1	1									4
Hydrofluoric Acid, 75%					4	3	3									4
Hydrofluoric Acid, concentrated					2	1		4			2	2	1	2	1	
Hydrofluosilicic Acid	2										1	1	1	1	1	
Hydrofluosilicic Acid, 100%				3	4	2	1									4
Hydrofluosilicic Acid, 20%				2	4	2	1									4
Hydrogen Bromide											2	2	1	3	1	
Hydrogen Chloride		3	3	3							1	1	1	1	1	
Hydrogen Chloride, gas											1	1		1		
Hydrogen Cyanide											1	1		1		
Hydrogen Fluoride (Anhydrous)											1	1	1	1	1	
Hydrogen Gas	1	1	1	1	1	1	1		1		3	3	1	1	1	3
Hydrogen Peroxide	2	3	3	3	4		1	1			3	3	1	2	1	
Hydrogen Peroxide, 10%				2	3	1	1									1
Hydrogen Peroxide, 100%		4		1	4	3	2									2
Hydrogen Peroxide, 30%				2	4	3	2				1	1	1	3	1	2
Hydrogen Peroxide, 50%				1	4	3	2									2
Hydrogen Peroxide, 90%											1	1	1	1	1	
Hydrogen Sulfide	1	4	3	3							2	2	1		3	
Hydrogen Sulfide (aqua)				3	3	1	1									3
Hydrogen Sulfide (dry)				2	3	1	1									3
Hydrogen Sulfide (dry, cold)											1	1		4		
Hydrogen Sulfide (dry, hot)											1	1		4		
Hydrogen Sulfide (wet, cold)											1	1		4		
Hydrogen Sulfide (wet, hot)											1	1		4		
Hydrolube (Water/ethylene glycol)											1	1		1	1	
Hydroquinol											4	4		3		
Hydroquinone					4		1				4	4	2	3	3	
Hydroxyacetic Acid	2										2	2	1	1	1	
Hyjet											1	1		4		
Hyjet S 4											1	1		4		
Hyjet W											1	1		4		



Chemical or Media	Metals				Plastics						Elastomers					
	Aluminum 2024	Brass	303/304 Stainless Steel	316 Stainless Steel	Nylon	Polyethylene	Polypropylene	Polysulfone	Polyurethane	Vectra Grade A130	AEPM	EPDM	FFKM (Chemraz®)	FKM (Viton®)	PTFE (Teflon®)	VMQ (Silicone)
Latex-abrasive		1	1	1							1	1		1	1	
Lauryl Alcohol (n-Dodecanol)											1	1	1	4	1	
Lavender Oil									4		4	4		1		
LB 135											1	1		1		
Lead Acetate	1		2	2	1	1	1		4		1	1	1	4	1	1
Lead Chloride											1	1			1	
Lead Nitrate							1				4	4	1	1	1	2
Lead Oxide											1	1		1		
Lead Sulfamate			3	3	2	1	1				4	4	1	1	1	2
Lehigh X1169											4	4		1		
Lehigh X 1170											4	4		1		
Lemon Oil			1	1				4						1	1	
Light Grease											4	4	1	1	1	
Lignin Liquor			1	1										1	1	
Ligroin (Nitrobenzine)				1	4	3	2				4	4	1	1	1	4
Lime	1		1	1	1	2								1	1	
Lime Bleach											4	4	1	1	1	
Lime Sulfur											1	1	1	1	1	
Limonene (Dipentene)											4	4	1	2	1	
Lindol (Tritolyl Phosphate)											3	3	1	2	1	
Linoleic Acid							2				4	4	1	4	1	2
Linseed Oil	1		1	1		3		1	2		4	4	4	4	1	
Liquefied Petroleum Gas (LPG)									1		4	4	1	1	1	
Liquefied Petroleum Gas (low seal life)													1	1	1	
Liquid Oxygen											1	1	1	1	1	
Liquimoly											4	4	1	1	1	
Liquor-Pulp Mill															1	
Liquor Sulfate															1	
Lithium Bromide		1									1	1	1	1	1	
Lithium Chloride		3	1	1			1				1	1	1		1	1
Lithium Hydroxide			3	3							4	4	1	3	1	
Lithophone											4	4	1	1	1	
Lubricants					1		1									4
Lubricating Oil	1	1	1	1		4		1	2				1	1	1	
Lubricating Oil (crude & refined)											4	4		1		
Lubricating Oil (di-ester base)											4	4	1	2	1	
Lubricating Oil (petroleum base)											4	4			4	
Lye						4			4		1	1		4		
Lye: Ca(OH)2 Calcium Hydroxide				2	1	2	1									1
Lye: KOH Potassium Hydroxide		4		2	3	1	1									3
Lye: NaOH Sodium Hydroxide		4		3	1	2	1									1
Lye Solution											1	1	1	1	1	
Magnesium Acetate											1	1	1	1	1	
Magnesium Bisulfate					1		1									
Magnesium Carbonate	1		1	1		1	1				1	1		1	1	
Magnesium Chloride	1	4	2	2	1	2	1		1		1	1	1	1	1	1
Magnesium Hydroxide	1	4	1	1	2	2	1		4		1	1	1	3	1	1
Magnesium Nitrate	1		1	1	1	1	1				1	1		1	1	
Magnesium Oxide (abrasive)			1	1							1	1		3	1	
Magnesium Salts											1	1		1	1	
Magnesium Sulfate	1	1	1	2	1	1	1				4	4	1	1	1	1
Magnesium Sulfite													1			
Malathion											4	4	1	1	1	
Maleic Acid	1	3	3	3	1	2	1				4	4	1	1	1	
Maleic Anhydride							4				2	2	1		1	
Maleic Hydraxide															1	
Mailic Acid (Apple Acid)		2		1	1	2	1				1	1				2
Malt Liquors														1	1	
Manganese Choride				1												1
Manganese (II) Chloride											1	1			1	
Manganese Carbonate											1	1	1	1	1	
Manganese Nitrate											3	3			1	

Chemical or Media	Metals				Plastics						Elastomers					
	Aluminum 2024	Brass	303/304 Stainless Steel	316 Stainless Steel	Nylon	Polyethylene	Polypropylene	Polysulfone	Polyurethane	Vectra Grade A130	AEPM	EPDM	FFKM (Chemraz®)	FKM (Viton®)	PTFE (Teflon®)	VMQ (Silicone)
Manganese Sulfate		4			1						1	1	1	1	1	1
Mash					1											
Mayonnaise			3	1	1			1						1	1	
Melamine				4	1		1									3
Melamine Resins			3	3							1	1		1	1	
Mercaptobenxothiazole (MBT)											1	1		1		
Mercuric Chloride		4									1	1	1	1	1	
Mercuric Chloride (dilute)	1			3	4	1	2				1	1	1	1	1	
Mercuric Cyanide	1			2	1	1	2				1	1	1	1	1	1
Mercurous Nitrate				1			1				2	2	1	4	1	
Mercury	1	4	1	1	1	1	2		1		1	1	1	1	4	
Mercury Salts (abrasive)															1	
Mercury Vapor											1	1		1		
Mesityl Oxide											2	2	1	4	1	
Methacrylic Acid Methylester											4	4	1	1	1	
Methacrylic Acid											2	2	1	3	1	
Methane					1		1		3		4	4	1	4	1	4
Methanol (Methyl Alcohol)	2	1	1	1	2	1	1	3		4	2	2	1	4	1	1
Methylene Chloride (CH <sub>2</sub> CL <sub>2</sub> )														1		
Methyl Acetate		1	1	1	1	2	4	4	4		2	2	1	4	1	4
Methyl Acetoacetate				1	1						2	2		4	3	
Methyl Acetone		1	1	1	1										1	
Methyl Acrylate									4		2	2	1	4	3	4
Methyl Acrylic Acid (Crotonic Acid)											1	1			2	
Methyl Alcohol (Methanol)	2	1	1	1		1			4		1	1	1	4	4	
Methyl Alcohol, 10%		1		1	2		1									1
Methyl Amine											1	1			4	
Methyl Amyl Acetate											4	4	1	1	1	
Methyl Amyl Alcohol											4	4	1	1	1	
Methyl Benzoate											4	4	1	2	1	
Methyl Bromide			1	1	2		3				4	4		1	1	
Methyl Butyl Ketone			1	1	4		4		4		1	1	1	4	1	4
Methyl Butyrate											4	4	1	1	1	
Methyl Carbonate											4	4		1		
Methyl Cellosolve		1	1	1	3		2				4	4	1	2	1	4
Methyl Chloride	1	3	3	3	2	4	4		4		3	3	1	2	1	4
Methyl Chloroform											4	4		2		
Methyl Chloroformate											4	4		1		
Methyl Chlorosilanes													1	1	1	
Methyl Cyanide (Acetonitrile)											1	1	4	4	1	
Methyl Cyclopentane				1							4	4	1	2	1	
Methyl Dichloride					3		4				2	2	1	4	1	
Methyl Ether											3	3	1	4	1	
Methyl Ethyl Keone (MEK)	1	1	1	1	1	2	2				2	2	1	4	1	4
Methyl Ethyl Ketone Peroxide						2	3	4	4		1	1	1		4	2
Methyl Formate											2	2	1	4	1	
Methyl Glycol Acetate											3	3	1	4	1	
Methyl Iodide											2	2	1	4	1	
Methyl Isobutyl Ketone (MEK)	1		1	1	2	3	3	4	4		3	3	1	4	1	4
Methyl Isopropyl Ketone			1	1	2						3	3	1	4	1	3
Methyl Mercaptan											2	2	1	1	1	
Methyl Methacrylate (MMA)											1	1	1		3	3
Methyl Oleate											2	2	1	2	4	
Methyl Phenyl Ether (Anisole)											2	2	1	4	1	
Methyl Propyl Ketone											1	1			2	
Methyl Salicylate											4	4	1	2	1	
Methylamine		4		1			1							3		
Methylene Bromide				1							4	4	1	2	1	
Methylene Chloride	2	1	3	3	3	4	3	4	4	3	3	3	1	2	1	
Methylene Dichloride				1										1	1	
MIL-L-23699 Lubricants											4	4		1		

Chemical or Media	Metals				Plastics						Elastomers					
	Aluminum 2024	Brass	303/304 Stainless Steel	316 Stainless Steel	Nylon	Polyethylene	Polypropylene	Polysulfone	Polyurethane	Vectra Grade A130	AEPM	EPDM	FFKM (Chemraz®)	FKM (Viton®)	PTFE (Teflon®)	VMQ (Silicone)
MIL-L-7808 Lubricants											3	3		1		
MIL-spec fluids											3	3	1	1	1	
Milk	1	4	1	1	1	1		1	4		4	4	1	1	1	1
Mine Water (hardness affects wear)		1	1	1	1		2								1	
Mineral Spirits		1	1	1	1									1	1	4
Mineral Oil	1	1	1	1		3	1	1	1		3	3	4	4	4	
MLO-7277											4	4		1		
MLO-7557											4	4		1		
MLO-8200											4	4		1		
MLO-8515											4	4		1		
Mobil 24DTE											4	4		1		
Mobil Delvac 1100, 1110, 1120, 1130											4	4		1		
Mobil HF											4	4		1		
Mobil Nivac 20, 30											1	1		1		
Mobil Therm 600											4	4		1		
Mobil Velocite C											4	4		1		
Mobil Gas WA200 ATF											4	4		1		
Mobil Oil SAE 20											4	4		1		
Mobilux											4	4		1		
Molasses		2	1	1	1	1	2								1	1
Monlybdenum Disulfide Grease											4	4		1		
Monobromo Benzene											4	4	4	4	4	
Monochloro Acetic Acid					4					1	4	4	1	1	1	
Monochloro Acetone											2	2	1	4	1	
Monochloro Benzene											4	4		3	4	
Monochloroacetic Acid		2			4											
Monoethanolamine (MEA)					1		2	1			2	2	1	2	1	2
Monoethylamine (Ethyl Amine)											1	1	1		1	
Monomethyl Aniline											4	4	1	2	1	
Monomethyl Ether											1	1		1	1	
Monomethyl Hydrazine											1	1	4	4	1	
Monotrotoluene 40%- Dinitrotoluene 60%											4	4		3		
Monovinyl Acetylene											1	1		1	1	
Morpholine					1		2			1	1	1			2	
Motor Oil					1		1	1								
Muriatic Acid (30%)														1	1	
Mustard	1		1	1	1			1						1		
Mustard Gas											4	4	1	1	1	
n-Dodecanol (Lauryl Alcohol)											1	1	4	4	4	
n-Heptane											4	4	1	1	1	
n-Hexaldehyde											1	1	2	4	1	
n-Hexane											4	4	1	1	1	
n-Hexanol											1	1	2	3	1	
n-Hexene (Hexylene)											1	1	1	3	1	
n-Hexene-1											4	4		1		
n-Octane								3			1	1	4	4	4	
n-Pentane											1	1	4	4	4	
n-Propyl Acetate (Propyl Acetate)											1	1	4	4	4	
n-Propyl Acetone											4	4	1	1	1	
n-Propyl Nitrate (NPN)											4	4	1	1	1	
Naphtha	1	3	1	1	1	4	2		2		4	4	1	1	1	4
Naphtha Coal Tar (Benzol)											4	4	1	1	1	
Napthalene (Tar Camphor)	1	3	1	1	1	2	2		2		4	4	1	1	1	4
Napthenic Acid		3	1	1							4	4	1	1	1	
Natural Gas		1		1			1		2		2	2	1	1	1	1
Neatsfoot Oil									1		2	2		2	1	
Neohexane											1	1	1	1	1	
Neon											2	2	1	1	1	
Neville Acid											2	2	1	4	1	
Nickel Acetate (Diacetate)			3	1							1	1	1	4	1	
Nickel Chloride		4		3	3	2	1				1	1	1	1	1	1
Nickel Chloride (abrasive)	1	1	3	3							1	1	1	1	1	

Chemical or Media	Metals				Plastics						Elastomers					
	Aluminum 2024	Brass	303/304 Stainless Steel	316 Stainless Steel	Nylon	Polyethylene	Polypropylene	Polysulfone	Polyurethane	Vectra Grade A130	AEPM	EPDM	FFKM (Chemraz®)	FKM (Viton®)	PTFE (Teflon®)	VMQ (Silicone)
Nickel Nitrate (Dinitrate)	2			1	1		1				1	1	1	1	1	
Nickel Salts											1	1	1	1	1	
Nickel Sulfate	1	4	3	3	1	2	1				1	1	1	1	1	1
Niter Cake		4									1	1		1		
Nitrating Acid, <15%				3			3									
Nitric Acid, 20%		4		1	4	3	4	1								4
Nitric Acid, 50%	1	4	3	3	4	3	4			3			1	3	1	4
Nitric Acid, 5-10%	1		3	3	4	2	4	3	3		2	2	1	1	1	3
Nitric Acid (3 molar)											4	4	1	1	1	
Nitric Acid (concentrated)		4			4		1	4			4	4	2	3	1	4
Nitric Acid (dilute)	1		3	3							2	2	1	1	1	
Nitric Acid (red fuming) (RFNA)											4	4	1	2	1	
Nitric Acid (red and white fuming)														3	1	
Nitrobenzene	1	3	1	1	2	3	2	4			4	4	1	2	1	4
Nitrobenzine (Ligroin)	1		2	1							3	3	1	4	1	
Nitroethane									4		2	2	1	1	1	
Nitrogen									1		4	4	1	4	1	
Nitrogen Gas		1	1	1											1	
Nitrogen Tetraoxide											4	4	1	4	1	
Nitromethane					2		2	4			2	2	1	4	1	4
Nitropropane											2	2	1	4	1	
Nitrous Acid		4	1	1			1				1	1	4	4	1	
Nitrous Oxide		2			3		4									
o-Chloronaphthalene											4	4	1	1	1	
o-Cresol (Cresylic Acid)											1	1	4	4	1	
o-Dichlorobenzene											1	1			1	
Octachlorotoluene											4	4	1	1	1	
Octadecane											4	4	1	1	1	
Octanol (Octyl Alcohol)											1	1			4	
Octyl Acetate											1	1	1	1	1	
Octyl Alcohol (Octanol)											4	4	1	1	1	
Oils: Aniline		4			1											4
Oils: Castor		1			1											1
Oils: Citric		2			1											
Oils: Coconut																1
Oils: Cod Liver																2
Oils: Corn					1											1
Oils: Cottonseed		1			2											1
Oils: Creosote					4											4
Oils: Diesel Fuel (20,30,40,50)					1											4
Oils: Fuel (1,2,3,5A,5B,6)		2			1											3
Oils: Hydraulic Oil (petro)		1			1											2
Oils: Hydraulic Oil (synthetic)		1			1											2
Oils: Linseed		2			1											1
Oils: Mineral		1			1											3
Oils: Olive	1		1	1	1			1			4	4	1	1	1	4
Oils: Orange	1		1	1										1		4
Oils: Peanut								1								1
Oils: Pine					1											4
Oils: Rapeseed																4
Oils: Rosin					1											
Oils: Silicone					1											3
Oils: Soybean					1											1
Oils: Transformer					1											2
Oils: Turbine					1											4
Oleic Acid		4	1	1	2	3	2	1			4	4	1	2	1	4
Olein (Trioleine)											4	4	1	1	1	
Oleum				2	4	4	4				4	4		1		
Oleum (fuming sulfuric acid)		3	2	1							2	2	1	1	1	
Oleum, 100%				2	4	4	4									4
Oleum, 25%					4											4
Oronite 8200, 8515											4	4		1		

Chemical or Media	Metals				Plastics						Elastomers					
	Aluminum 2024	Brass	303/304 Stainless Steel	316 Stainless Steel	Nylon	Polyethylene	Polypropylene	Polysulfone	Polyurethane	Vectra Grade A130	AEPM	EPDM	FFKM (Chemraz®)	FKM (Viton®)	PTFE (Teflon®)	VMQ (Silicone)
Orthochloroethylbenzene											4	4	1	1	1	
Orthodichlorobenzene											4	4		1	1	
OS45 Type 11, Silicate Ester Based											4	4		1		
OS45 Type 1V											4	4		1		
OS70											4	4		1		
Oxalic Acid	1	1	2	2	2	1	1				4	4	1	2	1	2
Oxalic Acid (cold)		4														
Oxygen (100 to 200 deg C.)									4		1	1	1	1	1	
Oxygen (below 100 deg C.)									1		1	1	1	1	1	
Oxygen Gas											4	4		3		
Oxygen Liquid			1	1							4	4	1	4	3	
Ozone (50 PPHM)					4		2				4	4	1	2	3	1
P-Dichlorobenzene											4	4		1		
P-Tertiary Butyl Caltechol											2	2		1		
Paint (with Xylene)		1	1	1										3	1	
Paint Thinner (Ducco)		1									4	4	1	2	1	
Palm Oil	1	1	1	1										1		
Palmitic Acid		4			1		2				4	4	1	4	1	4
Par-al-ketone											4	4	1	4	1	
Para-dichlorobenzene											4	4	1	1	1	
Paraffin (molten)		1	1	1										1	1	
Paraffins		1		1	1	2	1				1	1			4	
Paraformaldehyde											1	1			1	
Paraldehyde											3	3	1	1	1	
Parker O-Lube											4	4		1		
Peanut Oil	1	1	1	1				1			3	3	1	1	1	
Penicillin											1	1			1	
Pectin Liquor													1		1	
Pentachloroethane (Pentalin)											1	1			1	
Pentachlorophenoc														1	1	
Pentachlorophenol (PCP)											1	1			1	
Pentaerythritol											1	1		1		
Pentane (Amyl Hydride)			3	3	1	4	4				1	1	1	2	1	4
Pentanol											1	1	1	2	1	
Pentyl Alcohol (Amyl Alcohol)													1		1	
Pentyl Amine (Amyl Amine)											2	2	1	1	1	
Perchloric Acid					4	1	3		4		4	4	1	1	1	4
Perchlorthylene (Perchlor)	1	1	1	1	3	4	4				4	4	1	1	1	4
Petrolatum				1	4	2	4				4	4	1	1	1	4
Petroleum					1		2									4
Petroleum Ether				1							1	1			1	
Petroleum Oil (above 125 deg C.)									4		4	4	1	1	1	
Petroleum Oil (below 125 deg C.)						3			2		4	4	1	1	1	
Petroleum Oil, crude											4	4	1	1	1	
Petroleum Oil, crude (above 250)											4	4		2		
Petroleum Oil, crude (below 250)											4	4		1		
Phathalic Anhydride			1	2										1	1	
Phenol (Carbolic Acid)	1	4	2	2	4	2	2	4	3	3	4	4	1	1	2	
Phenol, 10%				2	4	1	4									4
Phenol Sulfonic Acid											1	1			4	
Phenyl Acetate											4	4	1	1	1	
Phenyl Benzene											4	4	1	1	1	
Phenyl Ether (Diphenyl Oxide)											4	4	1	1	1	
Phenyl Ethyl Ether (Phenetole)									4		4	4	1	4	1	
Phenyl Hydrazine											4	4	4	4	4	
Phenyl Methyl Ketone											2	2	1	4	1	
Phorone											3	3	1	4	2	
Phosgene											1	1	1	1	1	
Phosphate Esters											1	1	1	1	1	
Phosphoric Acid					2		1									
Phosphoric Acid, > 40%		4			2	1		1	4							4
Phosphoric Acid, < 40%		4			2			1								3





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Chemical or Media	Metals				Plastics						Elastomers					
	Aluminum 2024	Brass	303/304 Stainless Steel	316 Stainless Steel	Nylon	Polyethylene	Polypropylene	Polysulfone	Polyurethane	Vectra Grade A130	AEPM	EPDM	FFKM (Chemraz®)	FKM (Viton®)	PTFE (Teflon®)	VMQ (Silicone)
Plating Solutions, Nickel Plating: Watts Type 115-160F					1											
Plating Solutions, Rhodium Bath														1		
Plating Solutions, Rhodium Plating 120F					4											
Plating Solutions, Rochelle & Potassium Salt Bath	1			1										1	1	
Plating Solutions, Rochelle & Sodium Salt Bath	1													1	1	
Plating Solutions, Silver											1	1		1		
Plating Solutions, Silver Plate Bath	1		1											1	1	
Plating Solutions, Silver Plating 80-120F					1											
Plating Solutions, Sulfate-Chloride Bath	1													1		
Plating Solutions, Tin											1	1		1		
Plating Solutions, Tin Fluoborate Bath														1	1	
Plating Solutions, Tin-Fluoborate Plating 100F					4											
Plating Solutions, Tin-Lead Plating 100F					4											
Plating Solutions, Zinc											1	1		1		
Plating Solutions, Zinc Plating: Acid Chloride 140F					4											
Plating Solutions, Zinc Plating Acid Sulfate Bath 150F					4											
Plating Solutions, Zinc Plating: Alkaline Cyanide Bath R.T.					1											
Pneumatic Service											1	1	1	4	1	
Polyethylene Glycol											1	1		3		
Polyvinyl Acetate											1	1			1	
Polyvinyl Acetate Emulsion											1	1	1	3	1	
Potash (Potassium Carbonate)			1	1	1	2	1							1		
Potassium Acetate								4			1	1	1		1	
Potassium Bicarbonate	2		1	2	1	1	1				1	1	1	1	1	1
Potassium Bisulfate											1	1	1	1	1	
Potassium Bisulfite											1	1	1	1	1	
Potassium Borate				1										1	1	
Potassium Bromate				1										1	1	
Potassium Bromide	1		1	2	1	1	1				1	1	1	1	1	1
Potassium Carbonate (Potash)	1		1	1							1	1	1	1	1	
Potassium Chlorate				2	3	1	1				1	1	1	1	1	2
Potassium Chloride	1	4	1	2	1	2	1		1		1	1	1	1	1	1
Potassium Chromate				2	2	1	1				1	1	1	1	1	
Potassium Copper Cyanide											1	1	1	1	1	
Potassium Cupro Cyanide	1		2	2							1	1		1	1	
Potassium Cyanide	1		1	1		2			1		1	1	1	1	1	
Potassium Cyanide Solutions		4		2	1	1	1									1
Potassium Dichromate	1		1	2	2	1	1				1	1	1	1	1	1
Potassium Ferricyanide	1		2	1	2		1				1	1		1	1	
Potassium Ferrocyanide				2	2	1	1				1	1				
Potassium Fluoride						1			4		1	1	1	4	1	
Potassium Hydroxide (Caustic Potash)	2	4	1	2	3	1	1	3			1	1	1	4	1	3
Potassium Hydroxide										4	1	1				
Potassium Hydroxide, 50%											1	1				
Potassium Hypochlorite					2						1	1				
Potassium Iodate											1	1	1	1	1	
Potassium Iodide					1		1				1	1	1	1	1	
Potassium Nitrate	1	2	1	2	2	2	1				1	1	1	1	1	1
Potassium Nitrite											1	1				
Potassium Oxalate											1	1	1	1	1	
Potassium Perchlorate											1	1	2	2	1	
Potassium Perfluoroacetate													1		1	
Potassium Permanganate	1	3	1	2	4	1	1				1	1	2	2	1	
Potassium Persulfate											1	1	1	1	1	
Potassium Phosphate		3	1	1							1	1	1	1	1	

[illegible]

Chemical or Media

	Metals				Plastics						Elastomers					
	Aluminum 2024	Brass	303/304 Stainless Steel	316 Stainless Steel	Nylon	Polyethylene	Polypropylene	Polysulfone	Polyurethane	Vectra Grade A130	AEPM	EPDM	FFKM (Chemraz®)	FKM (Viton®)	PTFE (Teflon®)	VMQ (Silicone)
Salt Solution	1		1	1							1	1		1	1	
Salt Water				1	1	1	1		2		1	1		2		
Santosafe 300											3	3		1		
Sea Water (Brine)	1	4	1	1	1						1	1	1	2	1	1
Sesame Seed Oil	1		1	1										1	1	
Sewage			1	1					1		4	4	1	2	1	
Shave Cream			1	1										1	1	
Shell 3XF Mine Fluid											4	4		1		
Shell Alvania Grease											4	4		1		
Shell Carnea 19&29											4	4		1		
Shell Diala											4	4		1		
Shell Iru 905											4	4		1		
Shell Tellus 27 (petro base)											4	4		1		
Shell Tellus 33											4	4		1		
Shell UMF (5% Aromatic)											4	4		1		
Shellac		1	1	1									1		1	
Shellac (bleached)				1	1	1	1									
Shellac (orange)				1	1	1	1									
Silica Gel				1											1	
Silicate Esters									1		4	4	1	1	1	
Silicone				1	1		1									3
Silicone Grease		1	1	1				1			1	1	1	1	1	
Silicone Oil						1	1	1	1		2	2		1	1	
Silicone Tetrachloride											1	1	1	1	1	
Silver Bromide				2							1	1	1		1	
Silver Chloride											1	1				
Silver Cyanide											1	1	1	1	1	
Silver Nitrate	1		1	2	1	2	1		1		1	1	1	4	1	1
Silver Salts			1	1											1	
Sinclair Opaline CX-EP Lube											4	4		1		
Sizing Starch															1	
Skydrol® 500			1	1					4		1	1	1	4	1	
Skydrol® 7000			1	1					4		1	1	1	2	1	
Soap Solutions	1	2	1	1	1	4	1		3		1	1	1	4	1	1
Socony Mobil Type A											4	4		1		
Socony PD959B Vacuum											4	4		1		
Socony Vacuum AMV AC781 Grease											4	4		1		
Soda Ash (Sodium Carbonate)	1	1	1	2	2						1	1	1	1	1	1
Soda, Caustic (20%)		3	1	1							1	1			1	
Soda, Caustic (50%)			3	3											1	
Sodium Acetate	1	2	3	3	2	2	1				1	1	1	1	1	4
Sodium Aluminate	2		1	1	1						1	1	1	1	1	
Sodium Arsenite			1	1							1	1	1	1	1	
Sodium Azid											1	1		4		
Sodium Benzoate					2		1				1	1	1	1	1	
Sodium Bicarbonate (Baking Soda)	1	4	1	2	1	1	1	1			1	1	1	1	1	1
Sodium Bichromate				1							1	1	1	1	1	
Sodium Bisulfate	2	4	1	2	1	1	1				1	1	1	1	1	1
Sodium Bisulfide					3		1									
Sodium Bisulfite	1	3	1	1	3						1	1	1	1	1	1
Sodium Borate (Borax)	1		1	2	1	1	2				1	1	1	1	1	1
Sodium Bromide					2											
Sodium Carbonate (Soda Ash)		2		1	2	2	1				1	1	1	1	1	1
Sodium Carbonate (abrasive)	1	1	1	2							1	1	1	1	1	
Sodium Chlorate	1		1	2	4	2	1				1	1	1	1	1	3
Sodium Chloride	1	4	1	3	1	1	1	1	1		1	1	1	1	1	1
Sodium Chlorite		1	1	1							1	1	1	1	1	
Sodium Chromate				2	3						1	1				
Sodium Citrate				1							1	1	1	1	1	
Sodium Cyanide	1	4	1	1	1	1	1				1	1	1	2	1	1
Sodium Dichromate											1	1				
Sodium Ethylate											1	1				

[illegible]

# Chemical or Media

	Metals				Plastics						Elastomers					
	Aluminum 2024	Brass	303/304 Stainless Steel	316 Stainless Steel	Nylon	Polyethylene	Polypropylene	Polysulfone	Polyurethane	Vectra Grade A130	AEPM	EPDM	FFKM (Chemraz®)	FKM (Viton®)	PTFE (Teflon®)	VMQ (Silicone)
Stannous Chloride	1			3	3	2	1				1	1	1	1	1	2
Stannous Chloride, 15%											1	1	1	1	1	
Starch		1	1	1	1	2	1				4	4	1	2	1	
Stauffer 7700											4	4	1	1	1	
Steam (to 149 deg C.)											1	1		3		
Steam (to 150 deg C.)											1	1	1	1	1	
Steam (to 175 deg C.)											4	4	1	1	1	
Steam (to 200 deg C.)											4	4	2	3	1	
Steam (to 260 deg C.)											3	3	1	2	1	
Steam (over 149 deg. C.)											2	2		4		
Stearic Acid	1	4	1	1	1	2	1				4	4	1	2	1	2
Stemric Acid		1	1	1										1	1	
Stoddard Solvent	1	1	1	1	1	3	3	1	1		4	4	1	2	1	4
Styrene (Vinylbenzene)		1	1	1	1						1	1	1	2	1	4
Styrene Monomer									4		4	4		2		
Succinic Acid											1	1	1	1	1	
Sucrose Solution						2			4		1	1				
Sugar (liquids)				1	1		1									1
Sugar Solutions		1	1	1										1	1	
Sulfamic Acid											1	1	1	1	1	
Sulfate (liquors)			3	3	2	1	1								1	2
Sulfite (liquors)											2	2	1	1	1	
Sulfolane								4			1	1		2		
Sulfonated Fatty Alcohols															1	
Sulfonated Vegetable Oils													1		1	
Sulfur											4	4	1	1	1	
Sulfur, molten			1	1							3	3	1	1	1	
Sulfur Based Cutting Oil		1	1	1											1	
Sulfur Chloride		4		4	3	3	3				4	4	1	4	1	3
Sulfur Dioxide		4		1	3	2	1									2
Sulfur Dioxide (dry)		4		1	2	2	1				1	1	1	4	1	2
Sulfur Dioxide (wet)											1	1	2	4	1	
Sulfur Dioxide Gas	1	3	3	3							1	1	1	1	1	
Sulfur Dioxide, pressurized											1	1		4		
Sulfur Hexafluoride					2						3	3	2	2	1	2
Sulfur Trioxide		4	3	3	4						2	2	1	1	1	2
Sulfur Trioxide (dry)		1		1	1	3	1				3	3	1	1	1	2
Sulfuric Acid, <10%				2	3	1	1									3
Sulfuric Acid, 10%	1		3	3									1	1	1	
Sulfuric Acid, 10-75%	4	4		4	4	3	1	1		4	4	4		1	1	4
Sulfuric Acid, 3 molar											4	4	1	1	1	
Sulfuric Acid, 75%	3										3	3	1	1	1	
Sulfuric Acid, 75-100%				4	4	2	3									4
Sulfuric Acid, cold concentrated				2	4	3	1									4
Sulfuric Acid, concentrated						2	1	4	4		4	4	1	2	1	
Sulfuric Acid, fuming											4	4	1	2	1	
Sulfuric Acid, hot concentrated				3	4	4	4									4
Sulfurous Acid	1		3	3	4	2	1		4		2	2	1	1	1	4
Sulfonyl Chloride											1	1	1	1	1	
Sunoco 3661											4	4		1		
Sunoco SAE 10											4	4		1		
Sunsafe (fire resistant fluid)											4	4		1		
Supershell Gasoline											4	4		1		
Swanfinch EP Lubricant											4	4		1		
Swandinch Hypoid 90											4	4		1		
Synthetic Detergent		3	1	1											1	
Tallow					1		1									
Tallow (hot)		1	1	1									1	1	1	
Tannic Acid	1	2	3	3	3	2	1		4		4	4	1	1	1	2
Tanning Liquors	1	1	1	1	1	1	1							1	1	2
Tanning Oil			1	1										1		
Tar		1	1	1							3	3	1	1	1	



Chemical or Media	Metals				Plastics						Elastomers					
	Aluminum 2024	Brass	303/304 Stainless Steel	316 Stainless Steel	Nylon	Polyethylene	Polypropylene	Polysulfone	Polyurethane	Vectra Grade A130	AEPM	EPDM	FFKM (Chemraz®)	FKM (Viton®)	PTFE (Teflon®)	VMQ (Silicone)
Tar, bituminous											4	4	1	1	1	
Tartaric Acid	1	4	3	3	2	1	1				2	2	2	4	1	1
Terpineol (Terpilenol)	1			1							3	3	1	1	1	
Tertiary Butyl Alcohol											2	2	1	1	1	
Tertiary Butyl Catechol											4	4	1	1	1	
Tertiary Butyl Mercaptain											4	4	1	1	1	
Tetrabromoethane											4	4	4	4	1	
Tetrabromomethane											1	1	1	1	1	
Tertrabutyl Titanate (TBT)											1	1	3	4	1	
Tetrachlorodifluoroethane								1			4	4	1	1	1	
Tetrachloroethane	1	3	1	1	3		3	4			4	4	1	1	1	4
Tetrachloroethylene				1	1	2	4		4		4	4	1	1	1	4
Tetrachloromethane								4			4	4	1	1	1	
Tetraethyl Lead			1	1							4	4	1	1	1	
Tetraethylene Glycol (TEG)											1	1	1	1	1	
Tetrafluoromethane											3	3	1	4	1	
Tetrahydrofuran (THF)	2		1	1	1	3	3	4			2	2	1	4	1	4
Tetralin® (Tetrahydronaphthalene)											4	4		1		
Texaco Capella A & AA											4	4		1		
Texaco Meropa 220 No. 3 (No lead)											4	4		1		
Texaco Regal B											4	4		1		
Texaco Uni-Temp Grease											4	4		1		
Texamatic "A" Transmission Oil											4	4		1		
Texamatic 3401 Fluid											4	4		1		
Texamatic 3525 Fluid											4	4		1		
Texamatic 3528 Fluid											4	4		1		
Texas 1500 Oil											4	4		1		
Thioglycolic Acid											3	3	1	2	3	
Thiokol TP-90B											1	1		1		
Thiokol TP-95											1	1		1		
Thionyl Chloride											4	4	2	1	1	
Thiophene (Thiofuran)																2
Tidewater Multigear 140, EP Lube											4	4		1		
Tidewater Oil, Beedol											4	4		1		
Tin Salts							1				2	2	2	4	1	
Titanium Tetrachloride	1	1	1	1	1						4	4	1	3	1	4
Toluene (Toluol)				1	1	3	3	4	4	1	4	4	1	1	2	
Toluene Diisocyanate											2	2		4		
Toluene Di-Isocyanide (TDI)											4	4	1	1	1	
Toluidine					1											
Tomato Juice		1	1	1	1	1	1	1						1	1	
Tomato Pulp			1	1							4	4	1	1	1	
Transformer Oil		1	1	1					2		4	4		1	1	
Transformer Pyranol		1	1	1							1	1	1	4	1	
Transmission Fluid, type A									2		4	4	1	4	1	
Triacetin											1	1	1	1	1	
Trialkyl Phosphate											1	1	1	1	1	
Triaryl Phosphate											1	1	1	1	1	
Tributoxyl Ethyl Phosphate											1	1	1	4	1	
Tributyl Mercaptan											2	2	1	3	1	
Tributyl Phosphate (TBP)					3						2	2	1	4	2	4
Trichloroacetic Acid (TCA)					3		1				4	4	1	3	1	
Trichlorobenzene	1		3	1	3						4	4	1	3	1	4
Trichloroethane	2	1	1	1	3	4	3		4		4	4	1	2	1	4
Trichloroethylene				2	3	4	3		4		4	4		1	2	
Trichlorofluoromethane				1										1	1	
Trichloropane		1	1	1							3	3	1	2	1	
Trichloropropane											2	2	1	2	1	
Trichlorotrifluoroethane	2			1				1			1	1	1	3	1	
Tricresyl Phosphate (TCP)				1	1	2	1				1	1		2		3
Tricresylphosphate											2	2	2	3	1	
Tridecyl Alcohol (Tridecanol)											1	1			2	

Chemical or Media	Metals				Plastics						Elastomers					
	Aluminum 2024	Brass	303/304 Stainless Steel	316 Stainless Steel	Nylon	Polyethylene	Polypropylene	Polysulfone	Polyurethane	Vectra Grade A130	AEPDM	EPDM	FFKM (Chemraz®)	FKM (Viton®)	PTFE (Teflon®)	VMQ (Silicone)
Triethanol Amine (TEA)											1	1	1		1	
Triethanolamine											2	2	4	4	2	
Triethyl Aluminium (ATE)											1	1			1	
Triethyl Amine											1	1			4	
Triethyl Borane											1	1	1	1	1	
Triethyl Phosphate (TEP)								4			4	4	1	1	1	
Triethyl Glycol (TEG)											3	3	1		1	
Triethylaluminum					1											
Triethylamine				1	1		4				3	3	1	1	1	
Triethylborane															1	
Triethylphosphate											4	4	1	1	1	
Trifluoroethane											4	4		1	1	
Trifluorovinyl Chloride											4	4	1	2	1	
Trimethylpentane (Iso-octane)															1	
Tri-normal-butyl Phosphate											1	1	1	2	1	
Trinitrotoluene (TNT)											1	1	1	2	4	
Trioctyl Phosphate											4	4	1	2	1	
Triolene (Olein)				2							1	1	1	2	1	
Triphenyl Phosphite								4							1	
Tripoly Phosphate					1						1	1	1	2	1	1
Trisodium Phosphate					1		1				4	4	1	1	1	
Tritolyl Phosphate (Lindol)			1	1							4	4	1	1	1	
Tung Oil	1		1	1							4	4	1	1	1	
Turbine Oil	2	4	1	1	2	3			1		4	4	1	1	1	4
Turbine Oil No. 15 (MIL L-7808A)											4	4		1		
Turbine Oil No. 35											4	4		1		
Turpentine				1	2	4	4	4	4		4	4	1	1	1	
Type I Fuel (Mil-S-3136)											4	4	1	1	1	
Type II Fuel (Mil-S-3136)											1	1	2	4	1	
Type III Fuel (Mil-S-3136)											1	1	1	1	1	
Ucon Hydolube J-4											1	1		3		
Ucon Lubricant LB65											1	1		3		
Ucon Oil 50-HB-280X											1	1		3		
Ucon Oil LB-385 & 400X											1	1		3		
UDMH											1	1		4		
Univis 40 Hydraulic Fluid											4	4		1		
Univolt No. 35 (Mineral Oil)											4	4		1		
Unsymmetrical Dimethylhydrazine					1						1	1		4	1	2
Urea (Carbamide)					1		1			4	1	1				
Uric Acid		3	1	1	2									1	1	
Urine				1	2	1	1				4	4	1	1	1	
Valeric Acid		1	1	1	1						3	3	1	1	1	4
Varnish		1	1	1	1	3	1		3		4	4	1	1	1	2
Vegetable Juice		1									2	2	1	4	1	
Vegetable Oils & Fats								1			3	3		1		
Versilube	1	4	1	1	1						1	1		3	1	1
Versilube F44, F50 & F55											1	1		1		
Vinegar				1	1	2	1		2		3	3	1	1	1	4
Vinyl Acetate					1		2				4	4	1	3	1	
Vinyl Chloride (Chloroethylene)					1	4			4		4	4	1	2	1	
Vinyl Cyanide (Acrylonitrile)											1	1	1		1	
Vinyl Pyridine											1	1	1	1	1	
Vinylbenzene (Styrene)											1	1	1		1	
Vinylidene Chloride															1	
Viscose											1	1	1		1	
Vitriol Oil		4			1											2
VV-H-910											1	1		1		
Wagner 21B Brake Fluid											4	4		1		
Water											1	1		2		
Water (acid, mine)		1	1	1	1	1	1								1	
Water (boiled, treated)											1	1	1	1	1	
Water (cold)		1	1	1	1										1	

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Water (deionized)	1	1	1	1	1		1				1	1	1	1	1	3
Water (distilled)		2		1	1	1	1									2
Water (fresh)				1	1	1	1								1	
Water (hot)															1	
Water (potable)	1	4	1	1	1						4	4	1	1	1	2
Water (salt)		1	1	2	1	1	1							1	1	
Water Based Soluble Oil					1											1
Weed Killers	1	2	1	1	1						4	4	1	1	1	1
Wemco C											4	4		1		
Whiskey & Wines				1	1	3	1		1		1	1		1	1	
White Gas		2	1	1	1									1	1	1
White Liquor (pulp mill)				1	1	1	1				1	1	1	1	1	
White Oil									1		4	4	1	1	1	
White Pine Oil					1						4	4		1		
White Water (paper mill)				1	1		1				1	1	1	1	1	
Wolmar Salts											1	1		1		
Wood Alcohol (Methanol)											4	4	1	1	1	
Wood Oil									3		4	4	1	4	1	
Xenon	1	1	1	1	1						1	1	1	1	1	4
Xylene (Xylol)				1	1	4	4	4	4		4	4	1	4	1	
Xylidine (Xylidin)		1	1	1									1	1	1	
Xylidines- mixed											4	4		4		
Xylol				1							4	4		1	1	
Yeast											1	1			1	
Zeolites											1	1	1	1	1	
Zinc Acetate									4		1	1	1	4	1	
Zinc Ammonium Chloride											1	1				
Zinc Carbonate	1	4	3	3	1		1				1	1		1	1	2
Zinc Chloride				4	1	1	1		2		1	1	1	1	1	
Zinc Cyanide			1	1	1						1	1	1		1	
Zinc Hydrosulfite	1	3	1	1	1						1	1	1	1	1	
Zinc Nitrate											1	1	1	1	1	
Zinc Phosphate Solution													1		1	
Zinc Salts	1	3	1	1	1						1	1	1	1	1	1
Zinc Sulfate				2	1	1	1				1	1		1		