

# Hose Pressure Drop

Pressure drop is defined as the difference in input pressure and output pressure of a hose assembly. There are many factors which can contribute to pressure drop including the length of the hose assembly, the type and temperature of the fluid, flow rate, the

inside diameter of the hose, and the type of couplings used.

If pressure drop is a concern, this chart can be used for a quick estimate for a hose assembly that is 10 feet long with a fluid specification of .85 specific

gravity, a viscosity of 20 centistokes (97 S.S.U.), and a temperature of 100°F (38°C). Differences in fluids, fluid temperature, and viscosity can increase or decrease actual pressure drop compared to the values listed.

## Pressure Drop (psi)

	Dash Size	-3	-4	-5	-6	-8	-10	-12	-16	-20	-24	-32	-40	-48
	Hose ID	3/16	1/4	5/16	3/8	1/2	5/8	3/4	1	1¼	1½	2	2½	3
<b>in.</b>														
U.S.	0.25	10	3.1											
	0.50	19	6	2.7										
gpm	1	40	12	5.5	2.4									
	2	95	24	10	4.8									
	3	185	46	17	7	2.2								
	4		78	29	12	3	1.2							
	5		120	44	18	4.5	1.6	0.7						
	8			95	39	10	3.6	1.4						
	10				59	15	5.7	2	0.6					
	12				80	20	7.2	2.6	0.8					
	15					30	10	4.2	1.2	0.4				
	18					40	15	6.3	1.5	0.6				
	20					49	19	8	2	0.7	0.3			
	25					72	26	11	3	1	0.4			
	30						34	14	3.6	1.3	0.5	0.1		
	35						47	19	5	1.7	0.7	0.2		
	40							25	6.5	2.2	0.9	0.2		
	50							36	9	3.3	1.3	0.4	0.2	
	60							50	12	4.4	1.8	0.5	0.2	
	70								17	6	2.4	0.7	0.3	
	80								21	7.1	3	0.8	0.3	0.1
	90								27	9	3.8	1	0.5	0.1
	100								33	12	4.7	1.3	0.6	0.2
	150								60	22	8.5	2.2	1	0.3
	200									36	15	3.9	1.7	0.6
	250									54	22	5.3	2.5	0.8
	300										29	7.5	4	1.1
	400										51	14	6.5	2.2
	500											20	10	3
	800												18	5
	1000													10

## Chemical Resistance Tables

The following chemical resistance tables indicate the suitability of various elastomers and metals for use with fluids being conveyed. The ratings given are intended as a guide only and not a guarantee. Ratings are for tube compound only, unless otherwise stated. The final selection of the proper hose and fitting to use is further dependent on many factors including temperature, concentration, and length of exposure.

Hose ratings are for the effect on the polymer only. The degree of resistance of a rubber compound to a specific fluid depends on the variables of temperature, concentration, and length of exposure. When in doubt or when conditions vary, contact Continental ContiTech for assistance before using a specific product.

### Ratings and Definitions

- E** › The fluid is expected to have a minor or no effect on the hose and compound. Product may be used in continuous service. Changes in the substance, such as concentration or temperature, may affect hose product performance and cause degradation of the product.
- G** › The hose and compound may be used for continuous or intermittent service, however the product properties will be affected by the exposure of the chemical. Changes in the substance, such as concentration or temperature, may affect hose product performance and cause degradation of the product.
- X** › The hose and compound should not be used with this fluid.
- › Insufficient or no data is available for this fluid. Further testing is recommended to determine compatibility of the fluid with the hose and the compound.
- Blank** › No data is available.

Warning: Compatibility of hose fittings with the fluid is an essential factor in avoiding chemical reactions that may result in loss of fluid or failure of the hose connection, with the potential of causing personal injury or property damage.

# Chemical Resistance Tables

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### Rating Scale

E = Excellent resistance    X = Not recommended    Blank = No Data  
 G = Good resistance    - = Testing recommended

Chemical Name	Hose								Fittings and Adapters				
	PTFE (Teflon®)	CR (Polychloropene)	NBR (Nitrile)	Nitrile/PVC	CPE	CSM	Urethane	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass
Absorption Oil		G	E	G	-	G	-	-	-	-	-	-	E
Acetaldehyde	E	X	X	X	-	X	E	G	E	E	E	E	E
Acetamide	E	E	G	-	-	-	X	-	-	-	-	-	-
Acetate Solvent Crude	E												
Acetate Solvent Pure	E												
Acetic Acid, 100%	E	X	X	-	-	-	-	X	X	X	G	G	X
Acetic Acid, 100% (Hot Vapors)(to 200 °F)	E	G	G	-	-	-	-	X	X	X	G	G	X
Acetic Acid, 100% Boiling		X	X	-	-	-	X	X	X	X	G	-	X
Acetic Acid, 25%		G	X	G	E	G	-	X	X	G	G	G	X
Acetic Acid, 30%	E	G	X	-	E	-	-	G	X	G	E	G	X
Acetic Acid, 50%		G	X	G	E	-	-	G	X	G	G	G	X
Acetic Acid, 50% Boiling		X	X	-	-	-	-	X	X	X	G	-	-
Acetic Acid, 5-20%		G	X	G	E	G	X	E	X	G	G	G	X
Acetic Acid, 80%		X	X	-	-	-	-	X	X	G	G	G	X
Acetic Acid, 80% Boiling		X	X	-	-	-	-	X	X	X	G	X	X
Acetic Acid, Aerated		-	-	-	-	-	-	-	X	X	X	-	X
Acetic Acid, Air Free		-	-	-	-	-	-	-	X	X	X	-	X
Acetic Acid, Anhydride	E	X	X	X	E	G	-	X	X	G	G	G	X
Acetic Acid, Crude		X	X	-	-	-	-	E	X	G	E	G	X
Acetic Acid, Glacial	E	X	X	X	E	X	X	X	X	G	G	G	-
Acetil Bromide													
Acetil Chloride													
Acetil Chromide													
Acetone (Dimethylketone)	E	X	X	X	E	X	X	E	E	E	E	E	E
Acetonitrile (Methyl Cyanide)		G	X	G	E	G	-	-	-	-	-	-	-
Acetophenone													
Acetylene	E	G	G	E	E	-	-	E	E	E	E	E	G
Acrylic Esters													
Acrylonitrile (Vinyl Cyanide)	E	X	X	X	E	X	-	-	E	E	E	G	E
Adipic Acid													
Aero Lubriplate		E	E	-	-	-	-	-	E	E	E	E	-
Aero Safe 2300		X	X	-	-	-	X	-	E	E	E	E	E
Aeroshell 17A Grease		G	E	-	-	-	X	-	E	E	E	E	-
Aeroshell 750		X	G	-	-	-	X	-	E	E	E	E	-
Aeroshell 7A Grease		G	E	-	-	-	X	-	E	E	E	E	-
Aeroshell type 1A, 1AC, 4		G	E	-	-	-	E	-	-	-	-	-	-
Air 150°F		E	E	E	E	E	E	E	E	E	E	E	E
Air 180°F		G	G	G	E	G	G	E	E	E	E	E	E

Underline is cover compound rating only. Many factors, such as temperature, concentration and length of exposure, are relevant to how chemical exposure affects the tube and cover or fitting material. The fluid manufacturers recommended maximum operating temperature should be carefully observed. Exceeding the manufacturer's recommended maximum temperature can result in fluid breakdown and cause harm or shorten life of tube and cover materials. There may be instances where the hose cover could be adversely affected by fluids which would not chemically affect the hose tube. Conversely, some fluids with an adverse affect on the tube of the hose may not have a deteriorating effect on the hose cover. It is recommended that the user test the hose/fluid compatibility to their own standards. Since no industry standards exist for chemical resistance, the Compass Chemical Resistance Guide for Elastomers is used whenever possible. Teflon® is a registered trademark of Dupont.

# Chemical Resistance Tables

The following is a representative list of fluids and manufacturers and a general guideline for the use and compatibility of Continental ContiTech hose and fittings.

## Rating Scale

E = Excellent resistance    X = Not recommended    Blank = No Data  
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Chemical Name	Hose								Fittings and Adapters				
	PTFE (Teflon®)	CR (Polychloropene)	NBR (Nitrile)	Nitrile/ PVC	CPE	CSM	Urethane	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass
Air 200°		X	X	X	E	X	G	G	E	E	E	E	E
Air Ambient		E	E	E	E	E	E	E	E	E	E	E	E
Aircraft Hydr Oil AA		-	E	-	-	-	-	-	E	E	E	E	E
Alcohol	E	E	E	-	-	-	-	-	E	E	E	E	E
Alcohol, Amyl		G	G	-	-	-	-	E	-	G	E	G	-
Alcohol, Benzyl		X	X	-	E	G	G	-	E	E	E	-	-
Alcohol, Butyl		G	X	G	-	G	E	E	E	E	E	E	E
Alcohol, Denatured		E	E	-	-	E	-	E	E	E	E	E	E
Alcohol, Diacetone		-	X	-	-	G	-	-	E	E	E	E	E
Alcohol, Ethyl (Ethanol)		E	E	E	E	E	G	E	E	E	E	E	G
Alcohol, Furfural		G	X	X	E	G	-	-	G	E	E	E	E
Alcohol, Hexyl (Hexanol)		G	E	-	-	X	-	-	E	E	E	E	G
Alcohol, Isobutyl		G	G	-	-	E	-	E	E	E	E	E	G
Alcohol, Isopropyl (Isopropanol)		G	G	G	-	G	G	E	E	E	E	E	G
Alcohol, Methyl (100%) (Methanol)1		E	E	E	E	E	-	E	E	E	E	E	G
Alcohol, Methyl (6%)		E	E	E	-	E	-	E	E	E	E	E	G
Alcohol, Octyl		G	G	-	-	-	-	E	E	E	E	E	-
Alcohol, Propyl		E	E	-	-	-	-	X	G	E	E	E	E
Aliphatic (to 70°F)	E												
Alkazerie		X	X	X	-	X	X	-	E	E	-	-	-
Alkyd Resins													
Aluminum Chloride	E	E	E	E	E	E	G	X	X	G	G	X	X
Aluminum Fluoride, 20%+A21	E	E	E	E	E	E	G	X	X	G	G	G	X
Aluminum Hydroxide	E	E	E	E	E	E	-	E	-	E	E	-	E
Aluminum Hydroxide, Saturated		E	E	-	-	-	-	E	-	E	E	-	-
Aluminum Nitrate	E	E	E	E	E	E	G	-	X	E	E	G	-
Aluminum Sulfate	E	E	E	E	E	E	X	E	X	X	G	X	X
Alums (Ammonium or Potassium)	E	E	E	E	E	E	-	-	X	G	G	X	X
Ammonia Gas Cold, Dry (to 175 °F)													
Ammonia Gas Cold, Wet (to 480 °F)													
Ammonia Liquid (Anhydrous)													
Ammonia, Aqueous	E	E	G	E	-	E	-	E	-	E	E	-	X
Ammonium Acetate	E												

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Ammonium Carbonate													
Ammonium Chloride, 1%	E	X	G	E	E	E	E	E	X	G	G	X	X
Ammonium Chloride, 10% Boiling	E	X	X	-	-	-	-	X	X	G	G	X	X
Ammonium Chloride, 28% Boiling	E	X	X	-	-	-	-	X	X	G	G	X	X
Ammonium Chloride, 50% Boiling	E	X	X	-	-	-	-	X	G	E	E	-	X
Ammonium Hydroxide	E	G	G	G	E	E	X	E	G	E	E	-	X
Ammonium Hydroxide, 3 Molar		E	X	-	-	-	G	-	X	G	G	X	X
Ammonium Hydroxide Concentrated2		E	X	-	E	-	X	E	X	G	G	X	X
Ammonium Metaphosphate	E	G	G	G	-	G	-	-	E	E	E	X	-
Ammonium Nitrate, Fertilizer	E	E	G	E	E	E	E	X	E	E	E	G	X
Ammonium Nitrite		-	-	-	-	-	-	E	G	E	E	X	-
Ammonium Persulfate		X	X	X	E	-	X	X	X	G	G	X	X
Ammonium Persulfate 10%		E	X	-	-	-	X	X	X	G	G	X	X
Ammonium Persulfate 5%		E	X	-	-	-	-	X		G	G	X	X
AmmoniumPhosphate (Mono,Di,Tri,Basic)	E	E	E	E	E	E	E	G	X	G	G	X	-
Ammonium Sulfate	E	E	G	E	E	E	E	X	X	X	G	X	X
Ammonium Sulfide	E	E	E	E	-	E	-	E	E	E	E	E	G
Ammonium Thiocyanate	E	E	E	-	E	E	-	-	E	E	E	-	-
Amyl Chloride	E	X	-	X	G	X	-	G	-	E	E	-	-
Amyl Chloronaphthalene	E	X	X	X	-	X	-	-	-	E	E	-	-
Amyl Naphthalene	E	X	X	X	-	X	-	-	-	E	E	-	-
Amyl Phenol		-	-	-	-	-	-	-	-	E	E	-	-
Amyl Acetate	E	X	X	X	G	X	G	E	X	E	E	X	G
Amyl Alcohol	E	E	E	E	E	E	G	X	X	G	G	G	X
Amyl Borate		G	G	G	-	-	-	-	-	-	-	-	-
AN-0-3 Grade M		E	E	-	-	-	-	-	-	-	-	-	-
AN-0-366		E	E	-	-	-	-	-	-	-	-	-	-
AN-0-6		E	E	-	-	-	-	-	-	-	-	-	-
Anderol, L-774 (Diester)		X	G	-	-	-	-	X	-	-	-	-	-
Anderol, L-826 (Diester)		X	G	-	-	-	-	X	-	-	-	-	-
Anderol, L-829 (Diester)		X	G	-	-	-	-	X	-	-	-	-	-
ANG-25 (Diester Base,TG749)		X	G	-	-	-	-	X	E	E	E	E	-
ANG-25 (Glycerol Ester)		G	G	-	-	-	-	G	-	-	-	-	-

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Aniline	E	X	X	X	G	X	X	G	G	E	E	X	X
Aniline Dyes	E												
Animal Fat	E												
Animal Gelatin		E	E	-	-	-	-	-	-	E	E	-	-
Animal Oil (Lard Oil)	E	G	E	-	E	-	-	-	E	E	E	E	-
Antifreeze, Alcohol Base		G	G	G	G	G	-	-	E	E	E	E	-
Antifreeze, Glycol Base	E	G	E	E	E	E	-	E	E	E	E	E	E
Antimony Chloride, 50% (to 70°F)	E	-	E	-	-	-	-	X	X	X	X	-	-
AN-VV-0-366B Hydraulic Fluid		E	-	-	-	-	-	G	-	-	-	-	-
Aqua Regia (Concentrated)	E	X	X	X	G	X	X	X	X	X	X	X	-
Arco A.T.F.Dexron		-	E	-	-	-	-	-	-	-	-	-	-
Arco C2, 100		-	E	-	-	-	-	-	-	-	-	-	-
Argon Gas	E												
Aromatic Fuel 30%, Mil		-	-	-	-	-	-	-	-	-	-	-	-
Aromatic Fuel 50%		X	G	-	-	-	-	-	-	-	-	-	-
Aromatic Hydrocarbons	E	X	X	-	-	X	G	-	G	E	G	G	G
Arsenic Salt (to 70°F)	E												
Askarel, Transformer Oil	-	X	X	X	-	X	-	-	E	E	E	-	E
Asphalt, Cut Back (Including Emulsions)	E	X	G	G	-	X	E	E	E	E	E	G	G
Asphalt, Topping (Including Emulsions)	E	E	X	-	-	-	-	-	E	E	E	-	-
Asphalt, Under 180°F (Including Emulsions)	E	G	G	G	X	X	E	-	E	E	E	-	G
ASTM Oil N° 1	E	E	E	E	E	G	E	E	E	E	E	E	E
ASTM Oil N° 2	E	G	E	-	G	-	E	E	E	E	E	E	E
ASTM Oil N° 3	E	X	E	X	X	X	-	E	E	E	E	E	E
ASTM Oil N° 4	E	X	G	-	-	-	-	-	E	E	E	E	-
ASTM Reference Fuel A (to 300°F)	E	G	E	E	E	E	-	E	E	E	E	E	E
ASTM Reference Fuel B (to 300°F)	E	G	E	G	G	X	-	-	E	E	E	E	E
ASTM Reference Fuel C (to 300°F)	E	X	G	X	G	X	-	-	E	E	E	-	E
ATL-857		X	G	-	-	-	-	-	-	-	-	-	-
Atlantic Dominion F		G	E	-	-	-	-	-	-	-	-	-	-
Aurex 903R (Mobil)		G	E	-	-	-	-	-	-	-	-	-	-
Automatic Brake Fluid		G	X	-	-	-	-	-	E	E	E	E	-

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Automatic Transmission Fluid		G	E	-	E	-	-	-	E	E	E	E	-
Aviation Gasoline, Mil		-	G	-	-	-	-	-	E	E	E	E	-
Baltic Types 100, 150, 200, 300, 500			E	-	-	-	-	-	-	-	-	-	-
Barvel Concentrated (Ag Spray)		-	-	-	-	-	-	E	-	-	E	-	-
Bardol B		X	X	X	-	X	-	-	E	E	E	-	-
Barium Chloride	E	X	E	E	E	E	E	E	X	G	G	X	E
Barium Chloride, 5%	E	X	E	-	-	-	-	X	G	E	E	X	G
Barium Chloride, Aqueous Solution (Hot)		X	E	-	-	-	-	X	G	G	G	X	-
Barium Concentrate		E	E	E	E	E	-	E	G	E	E	X	-
Barium Hydroxide	E	E	E	E	E	E	X	E	X	E	E	X	X
Barium Sulfate	E	E	E	-	E	G	-	E	G	E	E	G	G
Barium Sulfate, Aqueous Solution (Hot)	E	X	-	-	-	-	-	X	G	E	E	G	X
Barium Sulfide	E	G	E	E	E	E	-	G	X	E	E	X	-
Baygon													-
Bayol 35		-	E	-	-	-	-	-	-	-	-	-	-
Bayol D		-	E	-	-	-	-	-	-	-	-	-	X
Beer	E												-
Beet Sugar Liquors	E	X	E	E	E	E	X	-	G	G	G	G	E
Bellows 80-20 Hydraulic Oil		-	E	-	-	-	G	-	-	-	-	-	E
Benzaldehyde	E	X	X	X	G	X	E	E	E	E	E	E	E
Benzene, Benzo	E	X	X	X	X	X	G	E	E	E	E	E	-
Benzine, Petroleum Ether		X	G	X	E	-	G	-	E	E	E	E	X
Benzine, Petroleum Naphtha	E												E
Benzoic Acid													G
Benzyl Alcohol	E												X
Black Point 77		-	E	-	-	-	-	-	-	-	-	-	X
Black Sulfate Liquor	E	G	G	G	G	G	-	E	G	E	E	X	-
Blast Furnace Gas	E	X	X	X	-	X	X	-	E	E	E	G	E
Borax, Sodium Borate	E	X	G	G	E	E	E	X	G	E	E	X	E
Bordeaux Mixture	E	G	G	G	-	-	E	E	X	-	E	E	-
Boric Acid	E	E	E	E	-	E	E	X	X	G	G	E	-
Boron Fuels, HEF		X	X	-	-	-	-	-	-	-	-	-	-
Brake Fluid, Petroleum Base (to 300°F)	E	G	E	G	E	X	-	-	E	E	E	-	-

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Chemical Name	Hose								Fittings and Adapters				
	PTFE (Teflon®)	CR (Polychloropene)	NBR (Nitrile)	Nitrile/ PVC	CPE	CSM	Urethane	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass
Brake Fluid, Synthetic Base		X	X	X	E	X	-	-	E	E	E	E	-
Bray GG-130		X	G	-	-	-	-	-	-	-	-	-	-
Brayco 719-r (VV-H-910)		G	X	-	-	-	-	-	-	-	-	-	E
Brayco 885 (MIL-L-6085A)		X	G	-	-	-	-	-	-	-	-	-	-
Brayco 910		G	G	-	-	-	-	-	-	-	-	-	E
Brine	E												E
Brom-113		X	G	-	-	-	-	-	-	-	-	-	-
Brom-114		G	G	-	-	-	-	-	-	-	-	-	X
Bromine (Permiable)	E												X
Bunker Oil	E	X	G	G	-	X	G	-	E	E	E	E	X
Butane	E	X	X	X	-	X	X	X	X	-	-	-	E
Butanone, MEK													-
Butyl Acetate	E	X	X	X	G	X	-	-	G	E	E	E	X
Butyl Acetate	E												G
Butyl Alcohol, Butanol	E												X
Butyl Cellosolve	E												X
Butyl Stearate	E												X
Butylene ( Permiable )	E												X
Butyraldehyde	E												X
Cadmium Salts (to 70°F)	E												
Calcium Acetate	E	X	X	X	E	X	-	-	G	G	G	X	E
Calcium Arsenate	-	-	-	-	-	-	E	E	-	-	-	-	E
Calcium Bisulfate	E	E	E	G	E	E	-	-	-	G	E	-	E
Calcium Bisulfide	E	E	E	G	E	E	E	-	-	G	G	X	-
Calcium Bisulfite	E	E	E	E	E	E	-	E	X	E	E	E	G
Calcium Carbonate	E	E	E	E	E	E	E	E	G	E	E	X	X
Calcium Chlorate	E	E	E	E	-	E	-	-	G	G	E	E	E
Calcium Chloride	E	E	E	E	E	E	E	E	X	G	G	X	E
Calcium Hydroxide	E	E	G	G	E	E	X	-	X	X	E	-	X
Calcium Hydroxide, 10% Boiling		-	G	-	-	-	-	X	G	E	E	X	E
Calcium Hydroxide, 20% Boiling		-	-	-	-	-	-	X	-	E	E	X	-
Calcium Hydroxide, 50% Boiling		-	-	-	-	-	-	X	-	X	G	X	G
Calcium Hypochlorite, 15% (Under 100°F)	E	X	-	X	E	G	-	X	-	X	G	X	X
Calcium Hypochlorite, 5% (Under 100°F)	E	X	G	X	E	G	-	X	X	X	G	X	E

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Calcium Nitrate	E	E	E	E	E	E	-	E	X	G	G	X	X
Calcium Salts (to 70°F)	E												
Calcium Silicate	E	-	G	-	E	G	-	-	E	E	E	E	X
Calcium Sulfate	E	E	E	E	E	E	-	-	G	E	E	G	-
Calcium Sulfide	E	E	G	-	E	-	-	G	G	E	E	G	X
Caliche Liquors E	E												
Cane Sugar Liquors	E	E	E	G	E	E	E	-	E	E	E	E	G
Carbitol													
Carbolic Acid, Phenol	E	X	X	X	E	X	X	X	X	E	E	G	X
Carbon Bisulfide	E												
Carbon Dioxide, Dry	E	G	E	E	E	E	E	-	E	E	E	E	E
Carbon Dioxide, Wet	E	G	E	E	E	E	-	-	E	E	E	E	E
Carbon Disulfide	-	X	X	-	-	X	G	E	G	E	E	G	-
Carbon Monoxide, (Under 150°F) (Hot)	E	G	G	G	E	E	-	G	E	E	E	E	-
Carbon Tetrachloride, 5-10%	E	-	-	-	-	-	-	-	-	X	-	-	X
Carbon Tetrachloride, Pure	E	X	X	X	G	X	X	X	X	X	G	G	-
Carbonic Acid	E	E	E	E	E	E	X	-	X	E	E	G	-
Castor Oil	E	G	G	G	E	G	G	E	G	E	E	E	G
Caustic Soda, 20%	E	G	X	X	E	E	X	G	G	E	E	X	E
Caustic Soda, 50%	E	G	X	X	E	E	X	G	G	E	E	X	E
Cellosolve Acetate, Under 100°F	E	X	X	X	G	X	-	-	G	G	G	E	E
Cellosolve Butyl, Under 100°F	E	X	X	X	-	X	-	-	G	G	G	G	E
Cellosolve Union Carbide, Under 100°F	E	X	X	-	-	-	-	-	G	G	G	G	-
Cellugard, Cellugard 200		E	E	-	-	-	-	-	-	X	X	-	X
Cellulube 1000, 220A, ST220, A60 (to 70°F)	E	X	X	X	-	X	-	-	E	E	E	E	X
Cellulube 90, 150, 220,300, 551 (to 70°F)	E	X	X	X	-	X	-	-	E	E	E	E	X
Cellutherm 2505A	-	X	G	-	-	-	-	-	-	-	-	-	X
Chevron FR-10,13, 20, 8													
China wood Oil (Tung)	E												
Chlor Acetone													
Chlordane (to 70°F)	E	X	X	X	-	X	-	E	-	-	-	X	X
Chlorinated Paraffine													
Chlorinated Solvents – Dry (to 212°F)	E												

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	PTFE (Teflon®)	CR (Polychloropene)	NBR (Nitrile)	Nitrile/ PVC	CPE	CSM	Urethane	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass
Chlorinated Solvents - Wet (to 70°F)	E												
Chlorine Gas, (Under 212°F)			X	-	-	-	-	-	-	X	X	-	-
Chlorine Trifluoride (to 70°F)	E	X	X	-	-	-	-	-	E	E	E	E	-
Chlorine Water, 25% Chlorine		X	X	X	-	G	G	X	-	X	X	-	E
Chloroacetic Acid (Under 100°F)	E	X	X	X	-	G	-	X	X	X	X	X	E
Chlorobenzene	E	X	X	X	X	X	-	X	G	G	G	X	E
Chlorobromo Methane	E	X	X	X	-	X	-	-	G	G	G	X	G
Chloroform	E	X	X	X	X	X	-	X	G	E	E	X	X
Chlorosulphonic Acid	E												
Chlorotoluene	E	X	X	X	X	X	X	-	G	G	G	X	X
Chlorox, Bleach		G	G	-	E	G	-	E	X	G	E	X	X
Chromic Acid, 10%	E	X	X	X	E	G	X	X	X	X	G	X	X
Chromic Acid, 100%	E	-	-	-	-	-	X	-	X	X	X	X	X
Chromic Acid, 25%	E	X	X	X	E	G	X	X	X	X	G	X	X
Chromic Acid, 5%	E	X	X	-	-	-	-	X	X	G	E	X	X
Chromic Acid, 50%	E	X	X	X	E	G	X	X	X	X	X	X	X
Chromium Potassium Sulfate													
Cider													
Circo Light Process Oil		E	E	-	-	-	-	-	E	E	E	E	-
Citgo FR Fluids			X	-	-	-	G	-	-	-	-	-	-
Citgo FR15, 20,25													
Citgo Glycol FR-20XD			E	-	-	-	G	-	E	E	E	E	E
Citgo Pacemaker FR													
Citgo Pacemaker Glicol													
Citgo Sentry, (Under 100°F)		G	G	E	-	X	G	-	E	E	E	-	E
Citgo Tractor Hydraulic Fluid			E	-	-	-	G	-	E	E	E	-	E
Citric Acid, 15%		E	G	-	-	-	-	E	X	E	E	-	X
Citric Acid, 15% Boiling		E	G	-	-	-	-	X	X	G	E	X	X
Citric Acid, 5%		-	G	-	-	-	-	E	X	E	E	E	X
Citric Acid, 5% @150°F		-	G	-	-	-	-	X	X	E	E	G	X
Citric Acid, Concentrated													
Boiling		E	X	E	-	E	G	X	X	X	G	X	X
Coal Gas		E	X	-	E	-	E	-	-	-	-	-	-
Coal Tars		X	G	X	G	G	-	-	E	E	E	E	E
Codor 1000, 1002, 1004, 1006, 1008			G	-	-	-	-	-	-	-	-	-	-
Coke Oven Gas (Under 100°F)	E	X	G	X	-	G	-	-	E	E	E	G	-

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Conor 1008, 1010, 1012, 1014, 1016		-	G	-	-	-	-	-	-	-	-	-	-
Convelex 10		X	X	-	-	-	-	-	-	-	-	-	-
Copper Arsenate,													
Cupric Arsenate		-	-	-	-	G	-	-	E	E	E	-	-
Copper Chloride, 1%		E	E	-	-	-	-	X	-	G	G	-	-
Copper Chloride, 5%	E	E	E	-	-	-	-	X	-	X	G	-	-
Copper Chloride,													
Cupric Chloride	E	G	G	G	G	G	E	G	X	X	E	-	X
Copper Cyanide,													
Cupric Cyanide	E	G	G	G	-	G	-	X	E	E	E	-	X
Copper Nitrate, 1% & 5%	E	E	E	-	-	-	-	E	X	E	E	X	X
Copper Nitrate, Cupric Nitrate		E	E	E	E	E	-	-	X	E	E	-	X
Copper Sulfate, 10%	E	E	E	-	-	-	-	-	X	G	G	X	-
Copper Sulfate, 50%	E	E	E	-	-	-	-	-	-	G	G	-	-
Copper Sulfate, Cupric Sulfate		E	E	E	E	E	E	E	X	E	E	X	X
Corn Oil	E	X	G	G	G	X	X	-	E	E	E	E	E
Cosmolubric													
Cottonseed Oil	E	G	G	E	G	G	X	G	E	E	E	E	E
Creosol	E												
Creosote, Wood or Coal Tar (Under 100°F)	E	X	G	X	-	X	X	X	G	E	E	E	X
Cresol, Cresylic Acid (Under 100°F)	E	X	X	X	E	X	-	X	G	E	E	G	-
Crude Petroleum Oil	E	X	X	G	G	G	G	-	E	E	E	E	E
Cutting Oil	E	G	E	G	E	X	-	-	E	E	E	-	E
Cutting Oil, Sulfur Base	E	X	E	-	-	-	-	-	E	E	E	E	-
Cutting Oil, Water Soluble	E	X	E	-	-	-	-	-	E	E	E	E	-
Cyclohexane	E	X	G	-	E	X	E	E	G	G	G	G	-
Cyclohexanol	E												
Cyclohexanone	E	X	X	X	G	X	E	E	G	G	G	G	-
Cymene	E	X	X	X	G	X	-	-	E	E	E	E	E
Dasco FR 300													
Dasco FR150, FR200, FR200B, FR310		-	E	-	-	-	-	E	-	-	-	-	-
Dasco IFR		-	E	-	-	-	-	E	E	-	-	E	E
DDT Preparation (to 70°F) (in Kerosene)	E												
Decalin	E	X	G	-	G	X	-	E	-	-	-	-	E

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Dectol R&O Oil		X	E	-	-	-	G	-	-	-	-	-	-
Deionized Water													
Detergent / water Solution	E												
Developing Fluids, Photo	E	G	-	-	E	G	-	-	-	E	E	-	-
Developing Solutions, Hypos	E	G	-	-	E	G	-	-	-	E	E	-	-
Dextron AFT													
Diacetone	E	X	X	X	E	X	-	E	E	E	E	E	E
Diammonium Phosphate ( to 70°F)	E												
Dibenzyl Ether	E												
Dibutyl Ether	E												
Dibutyl Phthalate (Under 120°F)	E	X	X	X	G	X	G	-	E	E	E	E	E
Dichlorobenzene	E	X	X	X	X	X	X	-	E	E	E	X	E
Dichloroethylene	E												
Dieldrin													
Diesel Oil, Fuel ASTM #2	E	G	E	G	G	X	E	E	E	E	E	E	E
Diester Lubricant MIL-I-7809		X	G	-	-	-	-	-	E	E	E	E	-
Diester Synthetic Lubricants		X	G	-	-	-	-	-	E	E	E	E	-
Diethanolamine, 20%	E												
Diethyl Ether ( Permiabie )	E												
Diethyl Sebacate	E												
Diethylamine (Under 120°F)	E	G	G	-	G	X	-	E	E	E	E	E	E
Diethylene Glycol	E	E	E	E	E	E	E	E	E	E	E	E	E
Diisobutyl Ketone	E	X	X	X	G	X	-	E	E	E	E	E	E
Diisobutylene	E	X	G	-	E	X	-	-	G	E	E	G	E
Diisopropyl Ketone		X	X	X	G	X	-	E	E	E	E	E	E
Dimethyk Benzol													
Dimethyl Aniline	E	X	X	X	G	X	-	-	-	-	-	-	E
Dimethyl Formamide (Under 120°F)	-	X	X	X	-	-	-	-	E	E	E	E	-
Dimethyl Phthalate	E	X	X	X	E	X	-	-	-	-	G	-	E
Diocetyl Phthalate (DOP)	E	X	X	X	G	X	-	-	E	E	E	E	E
Diocetyl Sebacate		X	X	X	X	X	-	-	E	E	E	E	-
Diocetylphospjate													
Dipentene	E	X	X	-	G	-	-	-	E	E	E	E	E
Dirco Oils		-	E	-	-	-	-	E	E	E	E	E	E
Dispersing Oil #10		X	X	-	-	-	-	-	E	E	E	E	-
Dow Corning C200,DC510,DC550,DC560		-	E	-	-	-	-	E	-	E	E	E	E

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Dow HD 50-4													
Dow Therm 209													
Dowtherm A	E	X	X	X	G	X	X	-	E	E	E	E	E
Dowtherm E		X	X	-	G	-	-	-	E	E	E	E	E
DP47, 200 Flow-DOW		-	E	-	-	-	-	E	E	E	E	E	E
Duro AW-16, 31													
Duro FR-HD		-	E	-	-	-	X	E	-	-	-	-	-
Duro Oils		-	E	-	-	-	-	E	E	E	E	E	E
Elco 28-EP, Lubricant		X	E	-	-	-	-	-	E	E	E	E	-
Enamels	-E	-	-	-	-	-	E	-	-	-	-	E	-
Energol HL 68		-	E	-	-	-	-	-	E	E	E	E	E
Energol HLPC 68		-	E	-	-	-	-	-	E	E	E	E	E
EP Hydraulic Oils, Chevron		-	E	-	-	-	-	-	E	E	E	E	E
Epichlorohydrin (Under 120°F)		X	X	-	-	-	-	-	E	G	E	E	-
Esam-6 Fluid		G	-	-	-	-	-	-	-	-	-	-	-
Ethanoic Acid	E												
Ethanol	E	E	E	-	E	-	X	E	-	-	-	-	-
Ethanolamine, Aminoethanol	E	G	G	-	E	X	X	E	E	E	E	E	E
Ethers (Under 120°F)	E	X	G	X	E	G	G	E	E	E	E	E	E
Ethyl Acetate	E	X	X	X	G	X	G	E	E	E	E	G	G
Ethyl Acetoacetate	E	X	X	X	E	X	X	-	E	E	E	E	E
Ethyl Acrylate	E	X	X	X	G	X	X	-	E	E	E	E	-
Ethyl Alcohol	E												
Ethyl Amine, Monoethylamine	E	X	X	X	E	X	X	-	G	E	E	G	E
Ethyl Benzene	E	X	X	X	G	X	E	-	E	E	E	E	E
Ethyl Bromide, Di	E	X	X	X	G	X	-	-	E	E	E	E	E
Ethyl Butyrate	E	X	X	X	-	-	-	-	-	E	E	E	-
Ethyl Cellulose	E	-	-	-	E	-	-	-	E	E	E	-	E
Ethyl Chloride	E	X	X	X	-	X	X	-	G	E	E	E	G
Ethyl Chloride, Dry	E	E	X	-	-	-	X	E	E	E	E	E	-
Ethyl Chloride, Wet	E	G	X	-	-	-	-	E	-	E	E	E	E
Ethyl Mercaptan	E	X	X	X	-	X	X	-	G	G	G	G	-
Ethyl Oxalate		X	X	-	E	-	E	-	-	-	-	-	-
Ethyl Pentachlorobenzene	E	-	X	-	X	-	E	-	-	-	-	-	-
Ethyl Silicate (to 70°F)	E	E	E	E	E	-	E	-	E	E	E	G	E
Ethylene Chlorohydrin, (Under 100°F)	E	X	X	X	-	-	X	X	E	E	G	X	-

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# Chemical Resistance Tables

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### Rating Scale

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Chemical Name	Hose								Fittings and Adapters				
	PTFE (Teflon®)	CR (Polychloropene)	NBR (Nitrile)	Nitrile/PVC	CPE	CSM	Urethane	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass
Ethylene Diamine (Under 100°F)	E	G	G	G	E	X	X	-	E	E	E	X	E
Ethylene Dichloride (Permeable)	E	X	X	-	G	-	E	E	-	E	E	X	-
Ethylene Glycol	E	E	E	E	E	E	E	E	G	E	E	E	E
Ethylene Glycol, Ethyl Ether	E												
Ethylene Oxide	E												
Exxon Univolt 60, N61													
Factovis 52		-	E	-	-	-	-	-	E	E	E	E	E
Fatty Acids	E	G	G	G	G	X	E	E	X	G	E	E	-
Ferric Chloride	E	-	-	-	E	G	-	-	X	X	X	X	X
Ferric Chloride, 1%		E	E	-	-	-	-	E	X	G	G	X	X
Ferric Chloride, 1% boiling		-	G	-	-	-	-	E	X	X	X	X	X
Ferric Chloride, 10%		G	E	-	-	-	-	E	X	X	X	X	X
Ferric Chloride, 5% Agitated or Aerated		G	G	-	-	-	-	E	X	X	X	X	X
Ferric Chloride, 5% Still		G	E	-	-	-	-	E	X	X	X	X	X
Ferric Sulfate	E	G	G	G	E	G	-	E	X	G	G	X	X
Ferrous Sulfate, Saturated	E	E	-	-	-	-	-	E	-	G	G	X	-
Ferrous Chloride	E	E	E	-	E	G	-	E	X	X	G	X	X
Ferrous Nitrate	E	G	G	G	-	G	-	-	-	E	E	-	-
Ferrous Salt Solutions	E												
Ferrous Sulfate, 10%	E	E	E	-	-	-	-	E	X	G	G	X	-
Ferrous Sulfate, Copper Gas	E	G	G	G	E	G	-	-	X	E	E	E	G
Fire Resistant Hydraulic Fluid, Texaco		-	E	-	-	-	-	-	E	E	E	E	E
Fire Safe, 225, 211													
Fire Safe, 1090E,1150,1220,1300E,155													
Firtec 290, MF		-	-	-	-	-	-	-	-	-	-	-	-
Fixing Solution, Photo		G	-	-	-	G	-	-	-	E	E	-	-
Flactid Acid													
Fluoboric Acid	E	E	E	-	E	-	-	-	E	-	E	X	-
Fluoboric Acid, 65%	E	G	-	-	E	G	X	-	-	E	E	-	-
Fluorine Gas, Dry or Wet	G												
Fluosilic Acid		G	E	-	-	-	-	-	X	X	X	X	E
Fluosilic Acid, 50%		G	X	X	E	G	X	X	-	-	-	E	-
Formaldehyde	E	E	X	-	E	-	-	G	E	E	E	E	X
Formaldehyde, 37%		G	-G	-	E	G	-G	-	-	E	E	E	E
Formaldehyde, Hot		-	-	-	-	-	-	E	X	G	E	G	E

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Chemical Name	Hose							Fittings and Adapters					
	PTFE (Teflon®)	CR (Polychloropene)	NBR (Nitrile)	Nitrile/PVC	CPE	CSM	Urethane	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass
Formic Acid (Under 120°F)	E	E	X	E	E	G	X	G	X	G	E	E	G
Formic Acid, Dilute Hot		E	X	-	-	-	-	X	X	G	E	G	X
Freon 113 ( Permiabile)			Use Freon Hose Only										
Freon 114 ( Permiabile)	G		Use Freon Hose Only										
Freon 12 ( Permiabile )	G		Use Freon Hose Only										
Freon 22 ( Permiabile )			Use Freon Hose Only										
Freon 502 ( Permiabile )			Use Freon Hose Only										
Fuel Oil	E	G	E	E	E	X	G	E	G	G	G	E	G
Fumaric Acid	E	G	X	-	-	-	X	-	E	E	E	-	-
Furan, Furfuran	E	X	X	X	E	-	-	-	E	E	E	E	E
Furfural	E												
Furfural Alcohol, Ant Oil	E	G	X	X	E	G	-	E	G	E	E	E	E
Fusel oil, Grain Oil		X	X	-	-	-	-	-	-	-	-	-	-
Fyran Resin		X	X	-	-	-	-	-	-	-	E	-	-
Fyre Safe W/O													
Fyrguard 150, 200		-	E	-	-	-	-	-	E	E	E	E	E
Fyrquel 1000, 15R&O, 220R&O, 550R&O		X	X	-	-	-	-	-	E	-	-	E	-
Fyrquel A60, 90, 100, 150, 220, 300, 500		X	X	-	-	-	-	-	E	-	-	E	-
Gallic Acid	E	X	X	X	E	-	X	G	X	E	E	X	-
Gas Oil	E												
Gas, Natural	E	-	-	-	X	-	-	-	E	E	E	-	G
Gasohol ( to 200°F)	E	G	X	X	-	X	-	-	G	E	E	E	E
Gasoline Unleaded, Under 50% Aromatics	E	X	X	X	-	X	X	-	G	E	E	E	E
Gasoline, Aviation	E	X	-	G	-	-	-	-	-	E	E	E	E
Gasoline, Meter		X	X	-	-	-	-	X	E	E	E	E	X
Gasoline, Premium	E	G	X	X	-	X	X	-	G	E	E	E	E
Gasoline, Sour	E	X	X	-	-	-	-	-	G	E	E	X	-
Gasoline, Standard	E	E	X	X	G	X	X	-	G	E	E	E	E
Gelatin	E	E	E	-	-	-	-	E	E	E	E	E	X
Glauber's Salt	-	G	X	-	-	-	-	-	E	E	E	-	-
Glucose	E	E	E	E	-	E	E	E	E	E	E	E	E
Glue (Under 120°F)	E	G	G	G	-	E	E	G	G	E	E	G	X
Glycerine, Glycol	E	E	E	E	E	E	E	E	G	E	E	E	G
Glycol FR Fluids	E	-	E	-	-	-	-	-	E	E	E	E	E
Glystantine													
Grease, Ester Base		-	-	-	-	-	-	E	E	E	E	E	E

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Chemical Name	Hose								Fittings and Adapters				
	PTFE (Teflon®)	CR (Polychloropene)	NBR (Nitrile)	Nitrile/PVC	CPE	CSM	Urethane	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass
Grease, Petroleum Base	E	G	E	G	-	G	E	E	E	E	E	E	E
Grease, Silicone Base		-	-	-	-	-	-	E	E	E	E	E	E
Green Sulfate Liquor, Under 120°F			G	E	G	-	-	-	E	E	E	-	-
Gulf FR Fluid G-200 (to 70°F)	E	-	E	-	-	-	X	-	E	E	E	E	E
Gulf FR Fluid P37, P40, P43, P45, P47 (to 70°F)	E	-	X	-	-	-	X	-	-	-	-	-	-
Gycols (Under 120°F)		E	E	E	E	E	E	E	G	E	E	E	E
H 515 (NATO)													
Halon													
Halowax Oil		X	X	X	-	X	-	-	-	-	-	-	-
Helium	E												
Hephtachlor, In Petroleum			G	X	-	-	-	-	-	-	-	-	-
Heptane (Under 100°F)	E	G	E	G	E	X	E	E	E	E	E	E	E
Hexane (Under 120°F)	E	G	E	G	G	E	E	E	E	E	E	E	E
Hexene	E	G	G	-	E	-	-	-	E	E	E	-	E
HF 20													
High Viscosity Lubricant, H2		G	E	-	-	-	-	-	-	-	-	-	-
High Viscosity Lubricant, U4		G	E	-	-	-	-	-	-	-	-	-	-
Hilo MS #1		X	X	-	-	-	-	-	-	-	-	-	-
Houghto-Safe 1010, 1055, (Phos, Ester) (to 70°F)	E	X	X	X	E	X	-	-	E	E	E	E	E
Houghto-Safe 1115, 1120, 1130, (Phos, Ester) (to 70°F)	E	X	X	X	E	X	-	-	E	E	E	E	E
Houghto-Safe 271, 416, 520, 616, (Water/Glycol) (to 70°F)	E	G	E	E	-	-	G	-	E	E	E	E	E
Hul-E-Mul													
Hy-Chock Oil		-	G	-	-	-	-	E	E	E	E	-	-
Hydrafluid 760, Texaco & Houghton		-	E	-	-	-	-	E	E	E	E	E	-
Hydrafluid AZR&O, A, B, AA, C		-	E	-	-	-	-	E	E	E	E	-	-
Hydrasol A		-	E	-	-	-	-	E	E	E	E	-	-
Hydraulic Fluid HF-18, HF-20		-	E	-	-	-	G	E	E	E	E	E	E
Hydraulic Fluid HF-31		-	-	-	-	-	-	E	E	E	E	E	E
Hydraulic Fluid, Phosphate Ester Base		X	X	X	E	-	X	E	E	E	E	-	-
Hydraulic Fluid, Std Petroleum Oils		G	E	G	E	G	G	E	E	E	E	E	E

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Chemical Name	Hose								Fittings and Adapters				
	PTFE (Teflon®)	CR (Polychloropene)	NBR (Nitrile)	Nitrile/ PVC	CPE	CSM	Urethane	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass
Hydraulic Fluid, Water Glycol Base		E	E	E	-	-	E	E	E	E	E	E	E
Hydraulic Oils, Petroleum	E	G	E	-	-	-	-	E	E	E	E	E	E
Hydraulic Oils, Synthetic	E	-	X	-	-	-	-	-	E	E	E	E	E
Hydraulic Safety Fluid 200&300 Texaco		-	E	-	-	-	E	-	E	E	E	E	E
Hydrazine	E	X	X	X	-	X	-	-	X	E	E	E	-
Hydrobromic Acid		X	X	-	-	-	-	-	X	X	X	X	X
Hydrobromic Acid, 37%		X	X	X	E	G	X	X	X	X	X	X	X
Hydrochloric Acid (Permiabie)	E	G	X	-	-	-	-	X	X	X	X	X	X
Hydrochloric Acid .15%	E	X	X	X	E	G	X	X	X	X	X	X	X
Hydrochloric Acid Concentrated		X	X	-	-	-	-	X	X	X	X	X	X
Hydrochloric Acid, 3 Molar		G	X	-	-	-	-	X	-	-	-	-	X
Hydrochloric Acid, 37%	E	X	-	X	E	G	X	X	X	X	X	X	X
Hydrocyanic Acid, 20% (Under 100°F)		X	X	X	-	G	X	E	X	E	E	E	X
Hydrocyanic Acid, 98%	E	-	-	-	-	-	-	-	-	-	-	-	-
Hydro-Drive Oil		-	E	-	-	-	G	-	-	-	-	-	-
Hydro-Drive Oil Houghton		-	E	-	-	-	G	-	-	-	-	-	-
Hydrofluoric Acid, 10%		X	X	X	E	E	X	X	X	X	X	X	X
Hydrofluoric Acid, 20% (Under 120°F)		X	X	X	E	G	X	X	X	X	X	X	X
Hydrofluoric Acid, 48% (Under 120°F)		X	X	X	E	G	X	X	X	X	X	X	X
Hydrofluoric Acid, 70% (Permiabie)	E	-	X	X	-	G	X	X	X	X	X	X	X
Hydrofluoric Acid, Anhydrous		-	X	-	-	-	-	-	-	-	-	-	-
Hydrofluoric Acid, Concentrated	E	X	X	X	E	G	X	X	X	X	X	X	X
Hydrofluorosilic Acid	E												
Hydrogen ( Permiabie )	E	E	E	-	E	-	-	-	X	X	X	E	-
Hydrogen Chloride Gas (Permiabie)	E	-	-	-	E	-	-	-	-	E	E	-	-
Hydrogen Cyanide Gas (Permiabie - to 300°F)	E	-	-	-	-	-	-	-	-	-	-	E	-
Hydrogen Fluoride (Under 100°F)(Permiabie)	E	-	X	-	-	-	-	-	G	G	E	-	-
Hydrogen Perhydrol													
Hydrogen Peroxide, 10%	E	X	E	X	E	G	X	X	X	G	E	E	X
Hydrogen Peroxide, 30%	E	X	G	X	E	G	X	X	X	G	E	E	X
Hydrogen Peroxide, 70%	E	X	X	X	E	-	X	X	X	G	E	E	X

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Chemical Name	Hose								Fittings and Adapters				
	PTFE (Teflon®)	CR (Polychloropene)	NBR (Nitrile)	Nitrile/PVC	CPE	CSM	Urethane	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass
Hydrogen Peroxide, 90%		X	X	-	-	-	-	-	X	G	E	-	X
Hydrogen Peroxide, Dilute		E	G	-	-	-	-	E	E	-	E	-	X
Hydrogen Sulfide, Aqueous Solution		G	X	-	-	-	-	-	X	-	-	X	-
Hydrogen Sulfide, Dry, Cold		E	E	-	-	-	-	E	-	-	-	G	X
Hydrogen Sulfide, Dry, Hot		G	X	-	-	-	-	E	E	X	G	G	X
Hydrogen Sulfide, Gas	E	-	-	-	-	-	-	-	-	-	-	-	-
Hydrogen Sulfide, Wet, Cold (Permiabie)	E	E	X	-	-	-	-	E	G	G	G	G	X
Hydrogen Sulfide, Wet, Hot	E	G	X	-	-	-	-	E	G	G	E	-	X
Hydrogluossilic Acid													
Hydrolube, Water Glycol	E	G	E	-	-	-	X	-	X	-	E	-	-
Hydrolubric Oil, Houghton		-	G	-	-	-	G	E	-	-	-	-	-
Hydroquinone	E	X	-	-	-	X	-	-	-	E	E	G	-
Hydroxy Quinoline													
Hykil N°6 (33%), Water (67%)	E	-	G	-	-	-	-	-	E	-	-	-	-
Hypochlorous Acid, (Under 120°F)		X	X	X	-	G	-	E	G	G	G	X	-
Hypoid Grease (Parapoid 10-C)		-	E	-	-	-	-	-	-	-	-	-	-
Imol, Imol S150, S220, S300, S500		-	E	-	-	-	G	E	E	E	E	E	-
Industron 53		-	E	-	-	-	-	-	-	-	-	-	-
Ink (Printers)	E	E	E	-	-	-	-	E	G	G	E	-	G
Ink Oil	E	-	G	-	-	-	-	-	E	E	E	-	E
Insulating Oil (Transformer)	E	G	E	G	-	X	-	-	E	E	E	-	E
Iodine (Under 100°F)													
(Gas- Permiabie)	E	X	X	-	E	G	X	E	G	G	G	X	-
Iodine Pentafluoride		X	X	-	-	-	-	-	X	G	G	X	-
Iodine, in Alcohol	E	G	-	-	-	-	X	-	-	-	-	X	-
Irus Fluid 902		-	E	-	-	-	E	E	E	E	E	E	E
Irus Fluid 905		-	E	-	-	-	E	E	E	E	E	E	E
Isobutane		X	X	-	-	-	X	X	X	E	E	G	E
Isocyanates (at 70°F)													
Isooctane		E	E	G	G	E	G	-	E	E	E	G	E
Isooctyl Thiogluclolate	E	-	-	-	-	-	-	-	-	-	-	-	-
Isopropyl Acetate	E	X	X	X	-	X	G	E	G	G	E	X	E
Isopropyl Alcohol (Isopropanol)	E	G	G	G	E	G	G	E	E	E	E	E	G
Isopropyl Ether	E												
Isopropylamine													

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	PTFE (Teflon®)	CR (Polychloropene)	NBR (Nitrile)	Nitrile/PVC	CPE	CSM	Urethane	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass
Jet Fuel JP-3 (Under 100°F)	E	G	E	G	-	X	G	E	G	E	E	G	E
Jet Fuel JP-4	E	X	E	G	-	X	-	E	G	E	E	G	E
Jet Fuel JP-5	E	X	E	X	-	X	-	E	G	E	E	G	E
Jet Fuel JP-6	E	X	E	X	-	X	-	E	G	E	E	G	E
Jet Fuel JP-x (at 70°F)	E	G	E	X	-	X	-	E	G	E	E	G	E
Kerosene	E	X	E	G	E	X	-	E	E	E	E	E	E
Ketchup	E	E	E	-	-	-	-	E	-	E	E	-	-
Ketones	E	X	X	X	-	X	X	E	E	E	E	G	E
Keystone #87Hx-Grease+A334		X	E	-	-	-	-	-	E	E	E	E	-
Lacquer Solvents	E	X	X	X	-	X	G	E	X	G	E	E	E
Lacquers	E	X	X	X	-	X	-	E	X	X	E	E	E
Lactic Acid	E	E	X	X	-	E	X	-	X	G	E	X	G
Lactic Acid 10% Boiling	E	X	X	-	-	-	-	-	X	G	E	X	X
Lactic Acid 5%	E	G	E	-	-	-	-	E	X	G	E	E	X
Lactic Acid 5% Boiling	E	X	X	-	-	-	-	-	X	G	E	G	X
Lactol		G	G	G	-	-	-	-	E	E	E	E	E
Lasso (Ag Spray)		-	-	-	-	-	-	E	-	E	E	-	-
Latex	E	E	E	-	-	-	-	E	E	E	E	E	E
Lead Acetate	E	X	X	-	E	X	-	-	G	G	G	X	E
Lead Arsenate (to 70°F)	E	G	G	-	-	G	E	-	E	E	E	-	-
Lead Nitrate (to 300°F)	E	G	G	-	-	-	-	-	E	G	G	-	-
Lead Sulfate (to 300°F)	E	E	E	-	E	E	E	-	E	E	E	-	-
Lead Sulphamate (to 125°F)	E	G	G	-	-	G	-	-	-	-	-	-	-
Lead Tetramethyl	E	X	G	X	-	X	E	-	-	-	-	-	-
Lead, Tetraethyl (Under 100°F)	E	X	G	X	-	X	-	-	-	-	-	-	-
Lecithin	E	G	X	-	-	-	-	-	-	E	E	-	-
Ligroin (Petroleum Ether, Under 120°F)	E	X	E	-	-	X	-	-	G	E	E	X	-
Lime (Chlorinated Free Chlorine 20%)		-	E	-	E	-	E	-	-	-	G	-	-
Lime Bleach (Under 100°F)	-	X	G	X	-	X	-	-	X	G	E	-	-
Lime Sulphur		E	X	-	-	-	-	E	G	E	E	X	X
Lime Sulphur (Under 135°F)	E	E	X	X	-	G	-	E	G	E	E	X	X
Lindane (Ag Spray)		-	-	-	-	-	-	E	-	E	E	-	-
Lindol HF (to 200°F)	E												
Lindol, Hydraulic Fluid (to 200°F)	E	X	X	-	-	-	-	-	E	E	E	E	-
Linoleic Acid	E	X	G	X	-	-	-	-	X	G	E	E	-

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Chemical Name	Hose								Fittings and Adapters				
	PTFE (Teflon®)	CR (Polychloropene)	NBR (Nitrile)	Nitrile/PVC	CPE	CSM	Urethane	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass
Linseed Oil	E	X	E	-	-	-	-	E	E	E	E	G	G
Linseed Oil (Boiled)		G	G	E	E	E	E	-	G	E	E	E	G
LPG													
Lubricating Oil (Diester Under 135°F)		X	G	X	-	-	X	E	E	E	E	E	E
Lubricating Oil (Petroleum Base)	E	G	E	G	E	G	G	E	E	E	E	E	E
Lubricating Oil (SAE 10, 20, 30, 40, 50)	E	G	G	-	-	-	-	E	E	E	E	E	-
Machine Oil (Under 135°F)	E	E	E	G	-	G	G	-	E	E	E	E	E
Magnesium Carbonate	E	E	E	E	-	E	E	-	G	G	G	E	-
Magnesium Chloride	E	E	E	E	E	E	E	E	X	G	E	X	G
Magnesium Hydroxide	E	G	G	G	E	E	X	-	E	E	E	X	X
Magnesium Nitrate	E	G	G	G	-	E	-	-	G	G	G	X	E
Magnesium Sulfate	S	G	G	G	E	E	E	E	G	G	G	G	G
Malation (Ag Spray Dilute)		-	G	-	-	-	-	E	E	E	E	-	E
Maleic Acid	E	G	X	-	-	-	-	E	-	E	E	G	G
Manganese Salts (to 70°F)	E	-	E	E	-	E	-	-	-	-	-	-	-
Maximul (Penzoil Hydraulic Fluid)		G	E	G	-	-	-	-	E	-	E	-	-
Mercuric Chloride	E	E	G	G	E	E	G	X	X	G	G	X	X
Mercuric Cyanide	E	E	G	G	-	E	-	-	G	G	G	X	-
Mercurous Nitrate (Under 120°F)	E	E	G	G	-	E	-	-	E	E	E	X	-
Mercury	E	E	G	G	E	E	G	E	E	E	E	X	X
Mesityl Oxide	E	X	X	X	G	X	X	-	E	E	E	E	E
Methane (Gas or Liquid)	E	G	E	-	-	-	-	-	-	E	E	-	-
Methanol													
Methoxychlor (Insecticide)		-	-	-	-	-	-	X	E	E	E	-	-
Methyl Acetate	E	X	X	X	E	X	-	-	E	E	E	E	E
Methyl Acrylate	E	X	X	X	-	X	-	-	E	E	E	E	E
Methyl Alcohol, Methanol	E												
Methyl Amine (25% Aqueous Solution)	E	G	X	-	-	-	-	-	E	E	E	E	-
Methyl Amine (60%)		G	G	-	-	-	-	G	E	E	E	E	G
Methyl Amine (99%)		X	X	-	-	-	-	-	E	E	E	E	X
Methyl Amyl Carbinol	E	-	-	-	E	-	-	-	E	E	E	-	-
Methyl Bromide	E	X	X	X	-	X	X	X	E	E	E	X	E
Methyl Butyl Ketone (MBK)	E	X	X	X	G	X	-	-	E	E	E	E	E

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Chemical Name	Hose								Fittings and Adapters				
	PTFE (Teflon®)	CR (Polychloropene)	NBR (Nitrile)	Nitrile/ PVC	CPE	CSM	Urethane	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass
Methyl Cellulosolve (Under 100°F)	E	G	X	-	E	X	-	-	G	G	G	G	E
Methyl Chloride		X	X	X	X	X	-	E	G	E	E	X	E
Methyl Ethyl Ketone (MEK)	E	X	X	X	G	X	X	E	E	E	E	G	E
Methyl Formate	E	G	X	X	-	X	-	-	G	E	E	E	E
Methyl Isobutyl Ketone (MIBK, 100°F)	E	X	X	X	G	X	X	G	G	G	G	G	E
Methyl Isopropyl Ketone	E	X	X	X	G	X	X	-	G	E	E	E	E
Methyl Methacrylate	E	X	X	X	G	G	-	-	G	G	G	-	-
Methyl Methyl Ketone													
Methyl Salicylate	E	G	G	G	-	-	-	-	E	E	E	E	E
Methyl Sulfate													
(Dinethyl, Under 100°F)	E	X	X	X	-	X	E	-	-	-	-	-	-
Methylene Chloride	E	X	X	X	X	X	-	G	G	G	G	X	E
Methylene Dichloride	E	X	X	X	-	-	-	E	E	E	E	X	E
Methylhalides													
MIL-F-7083													
MIL-H 5606													
MIL-H-83282													
MIL-L-2104 & 2104B													
MIL-L-7808													
MIL-O-6083													
Mine Guard FR													
Mineral Oil (Under 120°F)													
Mineral Spirit		-	E	G	-	X	-	-	E	E	E	G	E
MLO-8220 Hydro		E	G	-	-	-	-	-	E	E	E	E	-
MLO-7277 Hydro,		X	X	-	-	-	-	-	E	E	E	E	-
MLO-7557		E	X	-	-	-	-	-	E	E	E	E	-
MLO-8515		E	G	-	-	-	-	E	E	E	E	E	-
Mobil DTE													
Mobil HFA													
Mobil Rarus 824, 826, 827													
Mobil SHC 600 Series													
Mobil SHC 800 Series													
Mobil Vectra Oil													
Mobile Hydraulic Oils		-	E	-	-	-	G	-	E	E	E	E	-
Mobile Therm 603		-	E	-	-	-	-	-	E	E	E	E	E
Mobilfluid 423													
Mobilmet S122		-	E	-	-	-	G	-	-	-	-	-	-

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Mobilrama 525													
Molasses (Under 120°F)	E	G	G	G	-	E	E	-	G	E	E	G	X
Monochlorobenzene													
(Permiable)	E	X	X	X	X	X	X	X	E	E	E	X	E
Monoethanolamine	E	X	G	-	E	X	-	-	E	E	E	G	E
Morpholine (Pure Additive)	E												
Motor Oils (Under 135°F)	E	G	E	G	E	G	G	E	E	E	E	E	E
Mould Oil		-	-	-	-	-	-	-	E	E	E	-	-
Muriatic Acid (Permiable)	E	X	X	X	E	G	X	X	X	X	X	X	X
Mustard	E	E	G	E	-	E	-	-	X	E	E	G	-
NaK													
Naphtenic Acid	E												
Naphtha (Low													
Aromatic Content)	E	X	G	X	E	X	-	E	G	E	E	E	E
Naphthalene	E	X	X	X	-	X	-	-	E	E	E	-	E
Naphthalene (Tar Camphor)	E	X	X	X	E	X	-	E	E	E	E	E	E
Natural Gas	E												
Neon Gas	E												
N-Hexaldehyde	E	G	X	G	-	-	-	-	E	E	E	E	E
Nickel Acetate	E	G	G	-	-	-	-	-	E	G	G	E	E
Nickel Chloride	E	G	G	G	E	G	-	E	X	G	G	X	X
Nickel Nitrate	E	G	G	G	E	G	-	E	G	G	G	X	-
Nickel Plating Solution		-	G	-	-	G	X	-	-	E	E	-	-
Nickel Salts	E	G	-	E	-	-	-	-	-	-	-	-	-
Nickel Sulfate	E												
Nicotine Salts	E	-	-	-	-	-	E	-	E	X	G	-	-
Nitric Acid	E	X	X	-	-	-	-	-	X	E	E	-	X
Nitric Acid &													
Hydrochloric Acid		-	X	-	-	-	-	-	X	X	X	X	-
Nitric Acid, 20%	E	X	X	X	E	G	X	X	X	G	G	X	X
Nitric Acid, 3 M		X	X	-	-	-	-	-	X	E	E	-	X
Nitric Acid, 5% to 10%	E	X	X	X	E	G	X	X	X	G	G	E	X
Nitric Acid, 50% (Boiling)		X	X	X	X	X	X	X	X	G	G	X	X
Nitric Acid, 65% (Boiling)		X	X	X	X	X	X	X	X	G	G	X	X
Nitric Acid, Concentrated													
(Boiling)		X	X	-	-	-	-	X	X	G	G	X	X
Nitric Acid, Inhibited RED													
fuming (IRFNA)		X	X	-	-	-	-	-	X	E	E	E	X
Nitric Acid, Red Fuming													
(RNFA)	E	X	X	X	-	X	X	X	X	G	G	G	X

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	PTFE (Teflon®)	CR (Polychloropene)	NBR (Nitrile)	Nitrile/PVC	CPE	CSM	Urethane	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass
Nitrobenzene (Under 100°F)	E	X	X	X	G	X	X	-	G	G	G	G	E
Nitroethane	E	X	X	X	E	G	-	-	E	E	E	E	E
Nitrogen	E	E	E	G	E	E	E	E	E	E	E	E	E
Nitrogen Fertilizer Solution													
Nitrogen Oxide up to 50% (Under 100°F)		E	E	G	E	E	-	E	E	E	E	-	X
Nitromethane (Permiabile)	E	X	X	X	-	-	-	E	E	E	E	E	E
Nitropropane		X	X	X	-	-	-	E	E	E	E	E	E
Nitrous Oxide (Gas)	E												
N-Octane		X	G	-	E	X	-	-	E	E	E	-	E
Nuto H													
Nyvac 20 (WG), 30 (WG)			E	-	-	-	-	-	E	E	E	E	E
Nyvac FR Fluid			E	-	-	-	-	-	E	E	E	E	E
Nyvac FR200 Fluid			E	-	-	-	-	-	E	E	E	E	E
O-148 (NATO)													
Octyl Alcohol	E												
Oil (SAE, Under 100°F)	E	E	E	E	E	G	E	E	E	E	E	E	E
Oil Synthetic Blends													
Oils Crude	E	X	G	-	-	-	-	-	-	E	E	-	-
Oleic Acid (Under 120°F)	E	G	G	G	E	G	E	E	G	G	E	E	G
Oleum 25%													
Oleum Spirits ( to 70°F)	E												
Olive Oil	E	X	G	G	G	X	-	-	G	E	E	E	G
Orthodichlorobenzene													
OS 45 Type III (OS45)	E	E	G	-	-	-	-	-	-	-	-	-	-
OS 45 Type IV (OS45-1)	E	E	G	-	-	-	-	-	-	-	-	-	-
OS 70		E	G	-	-	-	-	-	-	-	-	-	-
Oxalic Acid (5%, Hot and Cold)		G	G	-	-	-	-	G	X	G	E	E	X
Oxalic Acid	E	X	X	X	E	G	X	X	X	G	E	G	X
Oxalic Acid (10% Boiling)		X	X	-	-	-	-	-	X	X	X	X	X
Oxalic Acid (10%)		G	G	-	-	-	-	G	X	G	E	E	X
Oxygen (200°-400°F)		X	X	-	-	-	-	-	-	-	-	-	-
Oxygen Cold		E	G	-	E	-	-	E	G	E	E	E	E
Oxygen Gaseous	E	-	-	-	-	-	-	-	-	-	-	E	-
Ozone (Dry)	E	G	X	G	E	G	E	G	E	E	E	E	E
Ozone (Wet)	E	-	X	-	-	-	-	-	X	G	E	G	-
Pacemaker Types 150T, 300T, 500T (Citgo)		-	E	-	-	-	-	-	-	-	-	-	-
Paint	E	X	-	-	-	X	X	G	-	E	E	E	E

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	PTFE (Teflon®)	CR (Polychloropene)	NBR (Nitrile)	Nitrile/PVC	CPE	CSM	Urethane	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass
Paint Solvents (Oil Base)		X	X	-	-	X	X	G	-	E	E	E	E
Paint Thinner, Duco	E	G	E	-	-	-	-	E	G	G	E	G	X
Paints (Oil Base)	E	-	E	-	-	E	-	E	-	-	-	-	-
Palm Oil	E	G	E	G	-	G	-	-	E	E	E	E	E
Palmitic Acid	E	G	G	G	E	X	E	E	G	G	E	E	X
Paradichlorobenzene													
Paraffin (Petroleum)		G	E	G	E	X	-	E	G	E	E	E	E
Paraformaldehyde	E	G	G	G	-	G	G	-	E	E	E	E	-
Peanut Oil (Under 100°F)	E	G	E	G	-	-	-	-	E	E	E	E	E
Pentane ( Gas or Liquid )	E												
Pentasol		G	G	G	-	G	-	-	E	E	E	E	E
Perchloric Acid	E	X	X	-	-	G	X	X	X	G	E	X	-
Perchloroethylene													
(Tetrachloroethylene)	E	X	X	X	G	X	-	G	E	E	E	X	X
Petroleum Oil (Above 250°F)	E	X	X	-	-	-	-	-	-	-	-	-	-
Petroleum Oil (Crude)	E	G	E	-	-	-	-	-	-	-	-	-	-
Petroleum Oil (Under 250°F)		G	E	-	-	-	-	-	-	-	-	-	-
Petroleum Oils (Refined)		G	E	G	-	G	G	E	E	E	E	E	E
Petroleum Oils (Sour)	E	G	G	-	-	X	G	-	G	E	E	E	X
Petroleum Oils (Under 100°F)		G	E	G	-	G	G	-	E	E	E	E	E
Phenol (70/30 Water)		X	X	-	-	-	-	-	-	E	E	E	-
Phenol (85/15 Water)		X	X	-	-	-	-	-	-	E	E	E	-
Phenol (Carbolic Acid)	E	X	X	X	E	X	X	X	G	E	E	E	X
Phenylamine													
Phorone													
(Diisopropylidene Acetone)	E	X	X	-	-	X	X	-	E	E	E	-	E
Phosphate Esters (3 Molar)		X	X	-	G	G	X	G	-	-	-	-	-
Phosphate Esters (Concentrated)	E	X	X	-	X	X	X	G	-	-	-	-	-
Phosphate Esters (Dilute)	E	X	X	-	E	E	X	G	-	-	-	-	-
Phosphoric Acid	E	G	G	-	-	-	-	-	-	-	G	-	-
Phosphoric Acid (1%)		G	-	-	-	-	-	-	-	E	E	-	X
Phosphoric Acid (10% Hot)		G	X	-	-	-	-	-	X	-	E	X	X
Phosphoric Acid (10%)		G	X	-	-	-	-	-	X	-	E	X	X
Phosphoric Acid (3 Molar)		X	X	-	-	-	-	-	-	-	-	-	-
Phosphoric Acid (5%)		G	X	-	-	-	-	-	-	E	E	-	X
Phosphoric Acid (50% Hot)		G	X	-	-	-	-	-	X	X	G	X	X
Phosphoric Acid (50%)		G	G	G	E	E	X	X	X	G	E	X	G
Phosphoric Acid (85% Hot)		G	X	-	-	-	-	-	X	X	X	X	X

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Phosphoric Acid (85%)		G	X	-	E	E	X	X	X	G	G	X	X
Phosphoric Acid (Aerated)		-	-	-	-	-	-	-	X	-	G	-	-
Phosphoric Acid (Concentrated)	E	X	X	-	-	-	-	-	-	-	-	-	-
Phosphoric Acid Air Free		-	-	-	-	-	-	-	X	-	-	X	-
Phosphorous Trichlor	E												
Photographic Developers	E	E	E	-	-	-	-	-	X	E	E	-	-
Photographic, Emulsions	E	-	-	-	-	-	-	-	-	-	-	-	-
Photographic, Fixing Solutions	E	G	-	-	-	G	-	-	-	E	E	-	-
Phthalic Acid		-	-	-	-	-	-	-	G	G	E	G	-
Picric Acid (Water Solution 100°F)	E	G	G	G	-	G	G-	X	X	E	E	X	X
Picric Acid Molten													
Pine Oil	E	X	G	-	G	X	-	E	E	E	E	E	-
Pinene	E	X	G	-	G	-	-	-	E	E	E	E	E
Piperazine Hydrochloride Solution (34%)		-	G	-	-	-	-	-	-	-	-	-	-
Pitch		G	E	-	-	G	G	E	-	-	-	-	-
Plating Solutions (Chrome)	E	X	X	-	-	-	X	X	-	X	X	-	-
Plating Solutions (Other)	E	-	E	-	-	-	-	-	-	-	-	-	-
Polyester Resin		-	-	-	-	-	-	G	-	-	-	-	-
Polyol Ester													
Polyurethane Foam (Under 125°F)		-	-	-	-	-	-	-	-	-	-	-	-
Potassium Acetate	E	G	G	-	E	G	X	-	G	E	E	X	-
Potassium Bicarbonate	E	E	E	-	-	E	-	E	E	G	G	E	-
Potassium Bisulfite	E	-	E	-	-	-	-	E	-	-	-	-	-
Potassium Bromate	E	-	-	-	-	-	-	-	-	-	-	-	-
Potassium Bromide	E	E	E	-	-	E	G	E	X	X	G	X	-
Potassium Carbonate (Potash)	E	E	E	E	E	E	G	E	G	E	E	X	X
Potassium Chlorate	E	E	E	-	-	-	G	E	G	G	G	G	-
Potassium Chloride (1% to 5%)	E	E	E	-	E	-	G	E	E	G	G	X	X
Potassium Chloride (Boiling)		-	-	-	-	-	-	-	-	G	G	-	X
Potassium Cyanide	E	E	E	-	E	-	-	E	G	G	G	X	X
Potassium Dichromate	E	E	E	-	E	-	-	G	E	G	G	G	-
Potassium Ferrocyanide	E	-	-	-	-	-	-	-	G	E	E	G	-
Potassium Fluoride	E	-	-	-	-	-	-	-	-	-	-	-	-

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## Chemical Resistance Tables

The following is a representative list of fluids and manufacturers and a general guideline for the use and compatibility of Continental ContiTech hose and fittings.

### Rating Scale

E = Excellent resistance    X = Not recommended    Blank = No Data  
G = Good resistance    - = Testing recommended

Chemical Name	Hose								Fittings and Adapters				
	PTFE (Teflon®)	CR (Polychloropene)	NBR (Nitrile)	Nitrile/PVC	CPE	CSM	Urethane	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass
Potassium Fluoride	E	-	-	-	-	-	-	-	-	-	-	-	-
Potassium Hydroxide	E	G	G	-	-	-	-	-	E	E	E	-	-
Potassium Hydroxide (27%Boiling)	-	-	-	-	-	-	-	-	G	G	E	X	X
Potassium Hydroxide (5%)	-	E	E	-	-	-	-	E	G	G	G	X	X
Potassium Hydroxide (50% Boiling)	-	-	-	-	-	-	-	-	G	G	G	X	X
Potassium Hydroxide (70% Hot)	-	-	-	-	-	-	-	-	X	-	-	X	X
Potassium Hydroxide (70%)	-	-	E	-	-	-	-	-	-	-	-	X	X
Potassium Hydroxide (30% Caustic Potash)	-	-	-	-	E	-	-	-	-	-	-	-	-
Potassium Iodide	-	E	E	-	-	E	-	E	E	G	G	-	-
Potassium Nitrate	E	E	E	-	E	-	E	E	E	E	G	G	G
Potassium Nitrate (1% to 5%)	-	E	E	-	-	-	-	-	E	E	E	E	G
Potassium Permanganate	E	E	G	-	-	-	-	G	E	G	G	G	-
Potassium Permanganate (5%)	-	E	E	-	-	-	-	E	E	E	E	E	-
Potassium Persulfate	E	-	-	-	-	-	-	-	-	-	-	-	-
Potassium Phosphate	E	E	-	-	-	E	-	-	X	G	G	X	-
Potassium Sulfate	E	E	E	-	E	-	E	E	E	G	G	E	-
Potassium Sulfate 1% & 5%	-	E	E	-	-	-	-	E	E	E	E	E	X
Potassium Sulfide	-	E	E	-	-	-	-	-	G	G	G	-	-
Potassium Sulfite ( to 300°F)	E	E	E	-	E	-	-	-	E	E	E	E	-
Potassium Thiosulfate	E	E	-	-	-	E	-	-	-	-	-	-	-
Primatol A, S, P (Ag Spray)	-	-	-	-	-	-	-	-	-	-	-	-	-
PRL-High Temp Hydraulic Oil	-	G	E	-	-	-	-	-	E	E	E	E	-
Propane Gas	E	X	X	-	-	-	X	X	X	E	E	E	-
Propionic Acid	E	X	X	-	-	-	-	-	E	-	G	G	-
Propyl Acetate	E	X	X	-	G	-	-	-	E	-	-	-	-
Propylene (Liquid or Gas, Ambient)	E	X	X	-	E	-	-	G	E	E	E	E	-
Propylene Dichloride	E	-	-	-	-	-	-	-	E	G	E	X	-
Propylene Glycol	-	E	X	-	E	E	E	G	E	G	G	E	-
Propylene Oxide ( Permiabie )	E	X	X	-	-	-	-	-	G	E	E	G	-
Purina Insecticide	-	X	X	-	-	-	-	G	E	E	E	E	G
Puropale RX Oils	-	-	E	-	-	-	G	E	E	E	E	E	E
Pydraulic	-	X	X	-	-	-	-	-	-	-	-	-	-
Pydraulic 10E,29E-LT,30E,60,65E,115E	-	X	X	-	G	-	-	-	E	E	E	E	E
Pydraulic 135 ( to 70°F)	E	-	X	-	G	-	-	G	E	E	E	-	-

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### Rating Scale

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Chemical Name	Hose							Fittings and Adapters					
	PTFE (Teflon®)	CR (Polychloropene)	NBR (Nitrile)	Nitrile/PVC	CPE	CSM	Urethane	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass
Pydraulic 150		X	X	X	G	X	G	G	E	E	E	E	E
Pydraulic 280 (at 400°F)	G	X	X	X	G	X	G	G	E	E	E	-	-
Pydraulic 312 (to 70°F)	E	X	X	X	G	-	G	E	E	E	E	-	-
Pydraulic 50E		-	-	-	G	-	G	E	E	E	E	-	-
Pydraulic 540 (to 70°F)	E	X	X	X	G	X	X	X	E	E	E	-	-
Pydraulic 625		X	X	X	G	X	G	G	E	E	E	-	-
Pydraulic A-200		X	X	X	G	X	X	G	E	E	E	-	-
Pydraulic F-9		X	X	X	G	X	G	E	E	E	E	-	-
Pyranol, Transformer Oil (to 70°F)	E	G	E	-	-	-	-	-	E	E	E	E	-
Pyridine	E	X	X	-	-	X	E	-	E	E	E	E	E
Pyrogard 160, 230, 630		-	-	-	-	-	-	-	E	E	E	-	-
Pyrogard 51, 53, 55		-	X	-	-	-	-	-	E	E	E	-	-
Pyrogard C, D	E	-	E	-	-	-	G	E	E	E	E	E	E
Pyrolube		E	X	-	-	-	-	-	-	-	-	-	-
Quench Oil	E	G	G	-	-	-	-	-	-	E	E	E	-
Quintolubric 700													
Quintolubric 822		X	E	-	-	-	-	-	E	E	E	E	E
Quintolubric 957, 958													
Ramrod (Ag Spray)		-	-	-	-	-	-	E	E	E	E	E	E
Rando Oils		-	E	-	-	-	G	E	E	E	E	E	E
Rape Seed Oil		G	X	-	-	X	-	G	E	E	E	E	E
Red Line 100 Oil	E	G	E	-	-	-	-	-	-	-	-	-	-
Red Oil (Comm. Oleic Acid, MIL-H-5606)	E	G	G	G	E	G	-	E	G	G	E	E	G
Refined Wax (Petroleum)		G	E	G	-	-	G	E	E	E	E	-	E
Refrigerant Freon 113 (see Freon)	Use Freon Hose Only												
Refrigerant Freon 114 (see Freon)	Use Freon Hose Only												
Refrigerant Freon 12 (see Freon)	Use Freon Hose Only												
Refrigerant Freon 22 (see Freon)	Use Freon Hose Only												
Refrigerant Freon 502 (see Freon)	Use Freon Hose Only												
Refrigerant HFC 134A (see Freon)	Use Freon Hose Only												
Regal Oils R&O		-	E	-	-	-	G	E	-	-	-	-	-
Resorcinol													

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Chemical Name	Hose								Fittings and Adapters				
	PTFE (Teflon®)	CR (Polychloropene)	NBR (Nitrile)	Nitrile/PVC	CPE	CSM	Urethane	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass
Richfield Weed Killer		X	G	-	-	X	-	-	-	-	-	-	-
Round Up		G	G	-	-	-	-	E	G	E	E	E	E
Rubilene Oils		-	E	-	-	-	G	E	-	-	-	-	-
SAE N° 10 Oil	E												
Safco-Safe T10, T20													
Safetytex 215		-	X	-	-	-	-	-	-	-	-	-	-
Salicylic Acid (to 400°F)	E	E	X	-	-	-	-	E	E	E	E	G	-
Salt Water (See Water)	E	G	G	G	-	G	E	E	G	E	E	X	G
Santo Safe 300		X	X	-	-	-	-	-	E	E	E	E	-
Santosafe W-G15, W-G20, W-G30		-	E	-	-	-	G	E	E	E	E	E	E
SCC 7204 (Stauffer)		-	-	-	-	-	-	-	-	-	-	-	-
Sevin		-	-	-	-	-	-	E	-	-	-	-	-
Sewage	E	G	G	G	E	G	-	E	X	E	E	G	G
Shell IRUS 902	E												
Shell IRUS 905	E												
Shell Pella-A													
Shell Tellus													
Shellac (to 400°F)		G	E	-	-	-	-	E	E	E	E	E	-
Shellac (Bleached) (to 400°F)	E	G	E	-	-	-	-	E	E	E	E	E	G
Shellac (Orange) (to 400°F)	E	G	E	-	-	-	-	E	E	E	E	E	G
Silicate Ester (to 400°F)	E												
Silicone Greases	E	G	G	G	-	G	-	E	E	E	E	E	E
Silicone Oils	E	G	G	G	-	G	-	E	E	E	E	E	E
Silver Cyanide	E	E	-	-	-	-	-	-	E	E	E	X	-
Silver Nitrate	E	E	E	E	E	E	-	E	G	E	E	E	G
Skelly, Solvent B, C, E		X	E	-	-	-	-	-	-	-	-	-	-
Skydrol 500A & 7000 (to 200°F)	E	X	X	X	G	X	-	E	E	E	E	E	-
Soap oil	E	X	X	-	-	X	-	-	E	E	E	-	-
Soap Solutions	E	G	E	G	E	E	E	E	E	E	E	E	E
Soda Ash (Sodium Carbonate)	E	E	E	E	E	E	E	E	E	E	E	X	G
Soda Water	E	-	-	-	-	-	E	E	-	-	-	-	-
Sodium Dichromate		G	E	-	E	G	E	E	-	-	-	-	-
Sodium Hypochlorite - 100% (to 200°F)	E	E	X	-	-	-	-	-	X	X	X	X	-
Sodium Hypochlorite 20% (to 400°F)	E	X	X	X	E	E	X	E	X	X	G	X	X
Sodium Hypochlorite 5%	E	-	X	X	E	E	X	E	X	X	G	X	X
Sodium Hyposulfate	E	X	-	-	-	-	-	-	X	E	E	X	-

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### Rating Scale

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Chemical Name	Hose								Fittings and Adapters				
	PTFE (Teflon®)	CR (Polychloropene)	NBR (Nitrile)	Nitrile/ PVC	CPE	CSM	Urethane	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass
Sodium Metaphosphate	E	G	G	G	E	G	-	E	X	E	E	E	X
Sodium Nitrate	E	X	X	-	E	G	E	E	E	G	G	G	G
Sodium Perborate	E	X	X	-	-	X	-	G	X	E	E	E	X
Sodium Peroxide (Sodium Dioxide)	E	E	G	E	G	E	-	X	X	E	E	E	X
Sodium Phosphate	E	X	E	-	E	-	E	E	G	E	E	X	X
Sodium Phosphate (Dibasic)	E	G	E	-	-	-	-	-	-	-	-	-	-
Sodium Phosphate (Mono)	E	E	E	-	-	-	-	-	-	-	-	-	-
Sodium Phosphate (Tribasic)		G	E	-	-	-	-	-	G	G	G	-	-
Sodium Silicate		E	E	-	E	E	G	E	G	G	G	X	X
Sodium Silicate (Hot)	E	E	E	-	-	-	-	-	G	G	G	X	X
Sodium Sulfate	E	E	E	-	E	E	E	E	G	E	E	-	G
Sodium Sulfide	E	E	E	-	E	E	E	E	X	X	G	X	X
Sodium Sulfide Saturated - 100%	E	E	E	-	-	-	-	E	G	G	E	X	X
Sodium Sulfite		G	G	G	E	G	E	G	E	E	E	-	X
Sodium Sulfite 10% @ 150°F		E	E	-	-	-	-	-	G	G	G	G	-
Sodium Sulfite 5%		E	E	-	-	-	-	-	E	E	E	E	-
Sodium Thiosulfate (hpo, Antichlor)	E	E	E	E	E	E	E	E	X	E	E	G	X
Sodium Tripolyphosphate (STPP) (to 70°F)	E	-	-	-	-	-	-	-	-	E	E	X	X
Sodium Acetate	E	X	X	X	E	X	G	E	E	E	E	E	E
Sodium Benzoate	E	-	-	-	-	-	E	-	-	-	-	-	-
Sodium Bicarbonate	E	E	E	E	E	E	E	E	G	E	E	G	G
Sodium Bisulfate (Niter Cake)		E	E	E	E	E	E	E	X	G	E	X	X
Sodium Bisulfite	E	E	E	E	E	E	E	E	G	E	E	G	-
Sodium Borate	E	E	E	E	E	E	E	E	E	E	E	-	-
Sodium Carbonate	E	E	E	E	E	E	E	E	G	G	G	X	G
Sodium Chlorate	E	G	E	-	E	E	E	E	G	G	G	X	-
Sodium Chloride	E	E	E	E	E	E	E	E	G	G	E	X	X
Sodium Chloride - 2%	E	E	E	-	-	-	-	E	G	G	E	X	X
Sodium Chloride - 5%	E	E	E	-	-	-	-	E	-	G	E	X	X
Sodium Chloride - 5% @ 150°F	E	E	E	-	-	-	-	E	-	G	E	-	X
Sodium Chloride Saturated (Boiling)	E	E	E	-	-	-	-	E	-	E	E	X	-
Sodium Chloride Saturated (Boiling)	E	-	-	-	-	-	-	-	-	G	E	X	-
Sodium Chloride Slurry		-	-	-	-	-	-	-	-	-	-	-	-

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Chemical Name	Hose								Fittings and Adapters				
	PTFE (Teflon®)	CR (Polychloropene)	NBR (Nitrile)	Nitrile/PVC	CPE	CSM	Urethane	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass
Sodium Cyanide	E	E	E	E	E	E	E	E	G	E	E	X	X
Sodium Ferricyanide	E	-	-	-	-	-	-	-	G	G	G	-	-
Sodium Ferrocyanide	E	-	-	-	-	-	-	-	-	-	-	-	-
Sodium Fluoride	E	-	E	-	-	-	-	-	G	G	G	-	-
Sodium Fluoride (5%)	E	-	E	-	-	-	-	E	G	G	G	-	-
Sodium Fluoride (70%)	E	-	-	-	-	-	-	-	-	-	G	-	-
Sodium Hydrosulfide - 100% (to 70°F)	E	E	X	-	-	-	-	-	-	-	-	-	-
Sodium Hydrosulfide - 45% (to 500°F)	E	E	X	-	-	-	-	-	-	-	-	-	-
Sodium Hydrosulfite	E	-	-	-	-	-	-	-	-	-	-	-	-
Sodium Hydroxide	E	G	G	-	-	-	-	-	G	-	-	-	X
Sodium Hydroxide (10%)	E	-	-	-	E	-	-	-	-	-	-	-	-
Sodium Hydroxide (20% Cold)	E	E	G	-	-	-	-	E	E	E	E	X	X
Sodium Hydroxide (20% Hot)	E	E	X	-	-	-	-	-	G	E	E	X	X
Sodium Hydroxide (3M)	-	G	G	-	-	-	-	-	-	-	-	-	X
Sodium Hydroxide (40%)	E	E	G	G	E	E	-	G	G	E	E	X	X
Sodium Hydroxide (50% Cold)	E	G	X	X	E	E	-	G	G	G	G	X	X
Sodium Hydroxide (50% Hot)	E	-	-	-	E	G	-	X	X	G	G	X	X
Sodium Hydroxide (60%)	E	G	X	X	E	G	-	X	X	G	G	X	X
Sodium Hydroxide (70% Cold)	E	E	G	-	-	-	-	-	-	-	G	X	X
Sodium Hydroxide (70% Hot)	E	-	-	-	-	-	-	-	-	-	-	-	-
Sodium Hydroxide (80% Hot)	E	E	X	-	-	-	-	-	X	X	X	X	X
Sole	-	-	-	-	-	-	-	-	-	-	-	-	-
Solnus Oils	-	-	E	-	-	-	G	E	E	E	E	E	E
Solvac 1535 G	-	-	-	-	G	-	-	E	-	-	-	-	-
Sour Crude Oil	-	-	-	-	-	-	-	-	-	-	-	-	-
Soybean Oil	E	G	G	G	-	G	-	E	E	E	E	E	-
Spent Acid	-	-	-	-	-	G	-	-	-	E	E	-	-
SR-10 Fuel	-	X	G	-	-	-	-	-	-	-	-	-	-
SR-6 Fuel	-	X	E	-	-	-	-	-	-	-	-	-	-
SRF Fluid B (Shell)	-	-	X	-	-	-	-	-	-	-	-	-	-
SRF Fluid C (Shell)	-	-	X	-	-	-	-	-	-	-	-	-	-
Stannic Chloride	E	X	G	G	E	X	-	X	X	X	X	X	X
Stannic Chloride, 50%	E	X	E	-	-	-	-	-	X	X	X	X	-
Stannous Chloride (Under 150°F)	E	E	E	-	E	E	-	X	-	X	G	X	-

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Chemical Name	Hose								Fittings and Adapters				
	PTFE (Teflon®)	CR (Polychloropene)	NBR (Nitrile)	Nitrile/PVC	CPE	CSM	Urethane	Nylon	Carbon Steel	Stainless Steel 304	Stainless Steel 316	Aluminum	Brass
Stannous Chloride, 15%	E	E	E	-	-	-	-	-	X	X	-	X	-
Stanoil N° 15, 18, 25, 31, 35, 51		-	E	-	-	-	G	E	E	E	E	E	E
Starch	E	G	G	-	-	E	E	E	X	E	E	E	-
Staysol FR		-	E	-	-	-	G	E	E	E	E	E	E
Steam-Water up to 250°F	E												
Stearic Acid	E	G	G	G	E	G	E	E	X	G	E	X	X
Stearin		-	-	-	-	-	E	G	-	-	-	-	-
Stoddard Solvent	E	G	G	X	E	-	X	E	G	E	E	E	E
Styrene (Monomer)	E	-	X	-	G	-	-	G	G	X	G	X	G
Styrene (Vinyl Benzene)		X	X	-	-	-	-	E	E	E	E	E	E
Sucrose Solutions	E	E	E	E	-	E	-	-	E	E	E	-	-
Sulfamic Acid (10% Under 170°F)	E	-	-	-	E	G	-	-	-	-	-	-	-
Sulfate Black Liquor	E	E	E	-	-	-	-	E	G	G	G	X	-
Sulfate Green Liquor	E	E	E	-	-	-	-	E	G	G	G	X	-
Sulfur	E												
Sulfur (Molten)		X	X	-	-	-	-	-	-	-	-	-	-
Sulfur Chloride	E	X	X	X	-	G	-	G	X	X	G	X	X
Sulfur Dioxide (Dry)	E	X	X	X	-	G	-	X	G	E	E	E	E
Sulfur Dioxide (Liquid)	E	G	X	-	-	G	-	-	-	-	-	-	-
Sulfur Dioxide (Moist)	E	G	X	-	-	G	-	E	-	G	E	E	X
Sulfur Hexafluoride (Gas) (to 70°F)	E	E	G	-	-	G	-	X	-	-	-	-	-
Sulfur Trioxide (Dry)	E	X	X	X	X	X	-	E	G	G	G	G	X
Sulfuric Acid (10%)	E	E	G	G	E	E	-	X	-	X	X	G	X
Sulfuric Acid (30%)	E	E	-	-	E	E	-	X	X	X	G	X	X
Sulfuric Acid (50%)	E	G	X	X	E	E	-	X	X	X	G	X	X
Sulfuric Acid (75%)	E	X	X	X	-	G	-	X	X	X	G	X	X
Sulfuric Acid (93%)	E	X	X	X	-	X	-	X	G	X	G	X	X
Sulfuric Acid (98%)	E	X	X	X	X	X	-	X	G	X	G	X	X
Sulfuric Acid, 3 Molar		X	X	-	-	-	-	-	-	-	-	-	-
Sulfuric Acid, 85%	E	X	X	-	-	-	-	-	X	G	E	X	-
Sulfuric Acid, Aerated, No Velocity	E	-	-	-	-	-	-	-	G	G	G	X	-
Sulfuric Acid, Air Free, No Velocity	E	-	-	-	-	-	-	-	X	X	G	X	-
Sulfuric Acid, Concentrated	E	X	X	-	-	-	-	-	-	E	E	-	-
Sulfuric Acid, Fuming, Oleum (Permiable)	E	X	-	-	-	-	-	-	G	E	E	G	-
Sulfurous Acid	E	G	G	-	-	-	-	X	X	X	G	G	-

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Sulfurous Acid (10%)	E	-	X	-	E	E	-	-	-	X	G	E	X
Sulfurous Acid (75%)	E	X	X	X	E	E	-	X	X	X	G	X	X
Sulphuric Acid 10%	-	-	G	-	-	-	-	X	X	G	E	X	X
Sulphuric Acid 5%	-	-	E	-	-	-	-	X	G	G	E	X	X
Sulphuric Acid 5% Boiling	-	X	-	-	-	-	-	X	X	X	-	X	X
Sulphuric Acid 50%	-	X	X	-	-	-	-	X	X	X	X	X	X
Sulphuric Acid, Concentrated	-	X	X	-	-	-	-	X	-	E	E	X	X
Sulphuric Acid, Concentrated @ 300%	-	X	X	-	-	-	-	-	X	X	X	X	X
Sulphuric Acid, Concentrated Boiling	-	X	X	-	-	-	-	-	X	X	X	X	X
Sulphuric Acid, Fuming	-	X	-	-	-	-	-	-	G	G	G	X	-
Sulphuric Acid 10% Boiling	-	X	X	-	-	-	-	X	X	X	-	X	X
Sulphurous Acid, saturated	-	X	X	-	-	-	-	G	-	E	E	X	X
Sun Minesafe, Sunsafe	-	-	-	-	-	-	-	-	-	-	-	-	-
Sun R&O Oils	-	-	E	-	-	-	G	E	E	E	E	E	E
Sunsafe (Fire Resist.Hydr. Fluid) to 70°F	E	G	E	-	-	-	G	E	E	E	E	E	-
Suntac HP Oils	-	-	E	-	-	-	G	E	E	-	E	E	-
Suntac WR Oils	-	-	E	-	-	-	G	E	E	-	E	E	-
Sunvis Oils 700, 800, 900	-	-	E	-	-	-	G	E	E	E	E	-	-
Super Hydraulic Oils (Conoco)	-	-	E	-	-	-	G	E	E	E	E	E	-
Sutan Plus, Herbicide	-	X	X	X	E	-	-	E	E	E	E	E	-
Sutazine Plus, Herbicide	-	X	X	-	E	-	-	E	X	E	E	E	-
Synesstic	-	-	-	-	-	-	-	-	-	-	-	-	-
Synthetic Oil (Citgo)	-	-	-	-	-	-	G	E	E	E	E	-	-
Syrup	E	G	E	G	-	-	-	E	-	E	E	E	-
Tall Oil (Under 100°F)	E	G	G	G	-	X	-	-	G	X	G	X	-
Tallow	E	G	G	G	-	-	-	E	G	G	G	E	G
Tannic Acid (10%)	E	G	X	-	E	G	-	X	G	E	E	G	X
Tannin	-	E	E	-	-	-	-	E	-	-	-	-	-
Tar (Bituminous, Under 100°F)	E	G	G	G	X	-	-	-	E	E	E	E	G
Tar and Tar Oil	-	G	-	-	-	-	G	E	E	E	E	E	G
Tartaric Acid	E	G	G	G	E	E	-	E	X	G	G	G	X
Tellus Oils (to 70°F)	E	-	E	-	-	-	G	E	E	E	E	E	E
Tenol Oils	-	-	E	-	-	-	G	E	E	E	E	-	-
Tergitol	-	-	-	-	-	-	-	-	G	E	E	-	G
Terpineol	E	X	G	-	E	G	-	G	E	E	E	E	-

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Terresstic		-	E	-	-	-	-	E	E	E	E	-	-
Tertiary Butyl Alcohol													
Tetra Chloro Benzene													
Tetra Chloro Ethane	E												
Tetra Chloro Ethylene (Permiabile)	E												
Tetra Chloro Methane	E												
Tetra Chloro Naphthalene													
Tetra Ethylene Glycol													
Tetraethyl Lead		G	G	-	-	-	-	G	-	-	-	-	-
Tetraethyl Lead Bleach		X	G	-	-	-	-	-	-	-	-	-	-
Tetrahydrofuran (THF)		X	X	-	-	X	G	E	G	E	E	-	-
Tetralin		X	X	-	-	X	-	G	E	E	E	E	-
Texaco 760 Hydrafluid													
Texaco 766, 763 (200-300)													
Thiopen (to 70°F)	E	X	X	-	-	-	-	-	-	-	-	-	-
Tim-Sol													
Titanium Tetrachloride	E	X	X	X	-	-	-	-	E	G	G	X	X
Toluene (Toluol)	E	X	X	X	X	X	-	E	E	E	E	E	E
Toluene Diisocyanate (Under 150°F)	E	X	-	-	-	-	-	-	E	E	E	-	-
Transformer Oil (Askarel Types)		X	X	X	E	X	-	-	E	E	E	E	-
Transformer Oil (Petroleum Type)	E	G	E	G	E	X	G	E	E	E	E	E	E
Transmission Fluid Type A	E	G	E	G	E	G	-	G	E	E	E	E	E
Tributyl Phosphate	E	X	X	X	G	X	-	-	E	-	-	X	-
Tributoxyethyl Phosphate	E	X	X	X	X	X	-	G	E	-	-	X	-
Tributyl Phosphate	E												
Trichloro Acetic Aci	E												
Trichloro Etane (Permiabile)	E												
Trichloroethylene (Permiabile)	E	X	X	X	G	X	-	G	X	G	E	X	E
Trichloromonofluoroethane (Freon 113) (to 200°F)	E	-	E	-	-	-	-	-	E	E	E	X	-
Trichloromonofluoroethane (Freon 17) (to 200°F)	E	-	-	-	-	-	-	-	E	E	E	X	-
Tricresyl Phosphate	E	X	X	X	E	X	-	E	E	G	G	X	-
Triethanolamine (TEA)	E	G	G	-	E	G	-	E	E	E	E	E	E

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Triphenyl Phosphate													
Tripolyphosphate (STPP)		X	E	-	-	-	-	-	-	G	E	X	-
Trisodium Phosphate E													
Tung Oil (to 400°F)	E	G	G	-	-	G	-	E	E	E	E	E	E
Turbine Oil #15 (MIL-L-7808A) (to 70°F)	E	X	E	-	-	-	-	-	E	E	E	E	-
Turbine Oil (to 250°F)	E	X	E	-	-	-	-	-	E	E	E	E	-
Turbo Oil #35		X	G	-	-	-	-	-	E	E	E	E	-
Turpentine	E	X	G	-	G	X	E	E	X	E	E	E	G
Tycol A Turbo 37, 50, 58, 60		-	E	-	-	-	G	E	E	E	E	-	-
Tycol Avalon 50, 57, 60		-	E	-	-	-	G	E	E	E	E	-	-
Type I Fuel (MIL-S-3136)													
ASTM Fuel A (to 300°F)	E	G	E	-	-	-	-	-	E	E	E	E	-
Type II Fuel (MIL-S-3136)		X	G	-	-	-	-	-	E	E	E	E	-
Type III Fuel (MIL-S-3136)													
ASTM Fuel B (to 300°F)	E	X	E	-	-	-	-	-	E	E	E	E	-
Ucon Hydrolube Types													
150CP, 200CP		-	E	-	-	-	G	E	E	E	E	E	E
Ucon Hydrolube Types													
275CP, 300CP, 550CP (to 70°F)	E	-	-	-	-	-	-	-	-	-	-	-	-
Ucon M1		-	E	-	-	-	G	E	E	E	E	E	E
Union ATF Dexron		-	E	-	-	-	G	E	E	E	E	E	E
Union ATF Type F		-	E	-	-	-	G	E	E	E	E	E	E
Union C-2 Fluid		-	E	-	-	-	G	E	E	E	E	E	E
Union C-P Oil		-	E	-	-	-	G	E	E	E	E	E	E
Union Hydraulic Oil AW		-	E	-	-	-	G	E	E	E	E	E	E
Union Hydraulic Tractor Fluid		-	E	-	-	-	G	E	E	E	E	E	E
Univis 40, Hydraulic Fluidon		G	E	-	-	-	-	-	E	E	E	E	-
Unleaded Gasoline	E												
Urea Solution	E	E	G	-	E	E	G	E	E	E	E	G	-
Urethane Formulations													
Uric Acid 100% (to 250°F)	E												
Uric Acid 75% (to 400°F)	E												
Varnish	E	X	X	X	X	X	-	E	G	E	E	E	G
Vaseline	E												
Vegetable Oils	E	G	E	G	E	-	G	E	E	E	E	E	G
Vegetable Oils (Hot)	-	-	-	-	-	-	E	G	G	G	E	G	-
Versilube	E	E	E	-	-	-	-	-	E	E	E	E	-

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Versilube F-50, F-44 (to 70°F)	E	G	G	G	-	G	G	E	E	E	E	E	E	
Vinyl Acetate	E	X	X	X	E	X	-	-	G	E	G	E	G	
Vinyl Chloride (Chloroethylene, Monomer) (Permiable)	E	X	X	X	X	X	-	-	G	E	E	G	X	
Vital 4300, 5310														
Vitrea Oils		-	E	-	-	-	G	E	E	E	E	-	-	
Volt Esso 35														
Water	E	E	E	E	E	E	E	E	E	E	E	E	E	
Water Glycols	E													
Water in Oil Emulsion		-	-	-	-	-	G	E	-	-	-	-	-	
Water, (Under 150°F)	E													
Water, (Up to 200°F)	E													
Water, Acid Mine	E	G	X	-	-	-	-	E	X	G	G	X	X	
Water, Brine		G	G	-	-	E	E	E	X	G	G	-	-	
Water, Demineralized	E	-	-	-	-	-	-	-	-	-	-	-	E	
Water, Distilled	E	G	E	-	-	E	E	E	X	E	E	E	-	
Water, Fresh	E	E	E	-	-	-	-	E	X	E	E	E	-	
Water, Potable (FDA Tube Only)	E		Use FDA Hose only							E				
Water, Salt	E	G	E	-	-	-	-	E	X	G	G	X		
Whiskey	E											X		
White & Bagley N° 2190														
Cutting Oil		G	E	-	-	-	-	-	-	-	-	-	-	
White Oil (to 70°F)	E													
White Pine Oil												X		
Wines	E		Use FDA Hose only											
Wood Alcohol														
Wood Oil (to 400°F)	E	G	E	-	E	G	E	E	E	E	E	E		
Xenon	E													
Xylene, Xylol	E	X	E	-	X	-	G	G	G	G	G	E		
Xylidine														
Zeric			E	-	-	-	G	G	-	-	-	-		
Zinc Acetate	E	G	X	-	-	X	-	G	E	E	E	E		
Zinc Carbonate (to 200°F)	E													
Zinc Chloride Solutions	E	E	E	E	E	E	-	E	X	G	E	X		
Zinc Chromate 75% (to 400°F)	E	-	-	-	E	E	-	-	-	E	E	-		

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Zinc Hydrate	-	-	-	-	-	-	G	-	-	-	-	-	-
Zinc Sulfate Solutions (to 300°F)	E	G	G	G	E	G	-	G	X	G	E	X	

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# Temperature Conversion Chart

Locate temperature in middle column. If in °C, read °F equivalent in right-hand column; if in °F, read °C in left-hand column.

$$C = 0.556 (°F - 32) \quad F = (1.8 °C) + 32$$

-459° to 0°			1° to 60°			61° to 290°			300° to 890°			900° to 3000°		
C	C/F	F	C	C/F	F	C	C/F	F	C	C/F	F	C	C/F	F
-273	-459		-17.2	1	33.8	16.1	61	141.8	149	300	572	482	900	1652
-268	-450		-16.7	2	35.6	16.7	62	143.6	154	310	590	488	910	1670
-262	-440		-16.1	3	37.4	17.2	63	145.4	160	320	608	493	920	1688
-257	-430		-15.6	4	39.2	17.8	64	147.2	166	330	626	499	930	1706
-251	-420		-15.0	5	41.0	18.3	65	149.0	171	340	644	504	940	1724
-246	-410		-14.4	6	42.8	18.9	66	150.8	177	350	662	510	950	1742
-240	-400		-13.9	7	44.6	19.4	67	152.6	182	360	680	516	960	1760
-234	-390		-13.3	8	46.4	20.0	68	154.4	188	370	698	521	970	1778
-229	-380		-12.8	9	48.2	20.6	69	156.2	193	380	716	527	980	1796
-223	-370		-12.2	10	50.0	21.1	70	158.0	199	390	734	532	990	1814
-218	-360		-11.7	11	51.8	21.7	71	159.8	204	400	752	538	1000	1832
-212	-350		-11.1	12	53.6	22.2	72	161.6	210	410	770	549	1020	1868
-207	-340		-10.6	13	55.4	22.8	73	163.4	216	420	788	560	1040	1904
-201	-330		-10.0	14	57.2	23.3	74	165.2	221	430	806	571	1060	1940
-196	-320		-9.4	15	59.0	23.9	75	167.0	227	440	824	582	1080	1976
-190	-310		-8.9	16	60.8	24.4	76	168.8	232	450	842	593	1100	2012
-184	-300		-8.3	17	62.6	25.0	77	170.6	238	460	860	604	1120	2048
-179	-290		-7.8	18	64.4	25.6	78	172.4	243	470	878	616	1140	2084
-173	-280		-7.2	19	66.2	26.1	79	174.2	249	480	896	627	1160	2120
-169	-273	-459	-6.7	20	68.0	26.7	80	176.0	254	490	914	638	1180	2156
-168	-270	-454	-6.1	21	69.8	27.2	81	177.8	260	500	932	649	1200	2192
-162	-260	-436	-5.6	22	71.6	27.8	82	179.6	266	510	950	660	1220	2228
-157	-250	-418	-5.0	23	73.4	28.3	83	181.4	271	520	968	671	1240	2264
-151	-240	-400	-4.4	24	75.2	28.9	84	183.2	277	530	986	682	1260	2300
-146	-230	-382	-3.9	25	77.0	29.4	85	185.0	282	540	1004	693	1280	2336
-140	-220	-364	-3.3	26	78.8	30.0	86	186.8	288	550	1022	704	1300	2372
-134	-210	-346	-2.8	27	80.6	30.6	87	188.6	293	560	1040	732	1350	2462
-129	-200	-328	-2.2	28	82.4	31.1	88	190.4	299	570	1058	760	1400	2552
-123	-190	-310	-1.7	29	84.2	31.7	89	192.2	304	580	1076	788	1450	2642
-118	-180	-292	-1.1	30	86.0	32.2	90	194.0	310	590	1094	816	1500	2732
-112	-170	-274	-0.6	31	87.8	32.8	91	195.8	316	600	1112	843	1550	2822

# Temperature Conversion Chart

Locate temperature in middle column. If in °C, read °F equivalent in right-hand column; if in °F, read °C in left-hand column.

$$C = 0.556 (°F - 32) \quad F = (1.8 °C) + 32$$

-459° to 0°			1° to 60°			61° to 290°			300° to 890°			900° to 3000°		
C	C/F	F	C	C/F	F	C	C/F	F	C	C/F	F	C	C/F	F
-107	-160	-256	0.0	32	89.6	33.3	92	197.6	321	610	1130	871	1600	2912
-101	-150	-238	0.6	33	91.4	33.9	93	199.4	327	620	1148	899	1650	3002
-96	-140	-220	1.1	34	93.2	34.4	94	201.2	332	630	1166	927	1700	3092
-90	-130	-202	1.7	35	95.0	35.0	95	203.0	338	640	1184	954	1750	3182
-84	-120	-184	2.2	36	96.8	35.6	96	204.8	343	650	1202	983	1800	3272
-79	-110	-166	2.8	37	98.6	36.1	97	206.6	349	660	1220	1010	1850	3362
-73	-100	-148	3.3	38	100.4	36.7	98	208.4	354	670	1238	1038	1900	3452
-68	-90	-130	3.9	39	102.2	37.2	99	210.2	360	680	1256	1066	1950	3542
-62	-80	-112	4.4	40	104.0	37.8	100	212.0	366	690	1274	1093	2000	3632
-57	-70	-94	5.0	41	105.8	43	110	230	371	700	1292	1121	2050	3722
-51	-60	-76	5.6	42	107.6	49	120	248	377	710	1310	1149	2100	3812
-46	-50	-58	6.1	43	109.4	54	130	266	382	720	1328	1177	2150	3902
-40	-40	-40	6.7	44	111.2	60	140	284	388	730	1346	1204	2200	3992
-34	-30	-22	7.2	45	113.0	66	150	302	393	740	1364	1232	2250	4082
-29	-20	-4	7.8	46	114.8	71	160	320	399	750	1382	1260	2300	4172
-23	-10	14	8.3	47	116.6	77	170	338	404	760	1400	1288	2350	4262
-18	0	32	8.9	48	118.4	82	180	356	410	770	1418	1316	2400	4352
			9.4	49	120.2	88	190	374	416	780	1436	1343	2450	4442
			10.0	50	122.0	93	200	392	421	790	1454	1271	2500	4532
			10.6	51	123.8	99	210	410	427	800	1472	1399	2550	4622
			11.1	52	125.6	100	212	414	432	810	1490	1427	2600	4712
			11.7	53	127.4	104	220	428	438	820	1508	1454	2650	4802
			12.2	54	129.2	110	230	446	443	830	1526	1482	2700	4892
			12.8	55	131.0	116	240	464	449	840	1544	1510	2750	4982
			13.3	56	132.8	121	250	482	454	850	1562	1538	2800	5072
			13.9	57	134.6	127	260	500	460	860	1580	1566	2850	5162
			14.4	58	136.4	132	270	518	466	870	1598	1593	2900	5252
			15.0	59	138.2	138	280	536	471	880	1616	1621	2950	5342
			15.6	60	140.0	143	290	554	477	890	1634	1649	3000	5432

# Pressure Conversions

**Metric to psi (1 kPa = .145 psi)**

Kilo Pascals (kPa)	Mega Pascals (MPa)	Bar (Bar)	Pounds per Square Inch (psi)
100	0.1	1	14.5
200	0.2	2	29.0
300	0.3	3	43.5
400	0.4	4	58.0
500	0.5	5	72.5
600	0.6	6	87.0
700	0.7	7	101.5
800	0.8	8	116.0
900	0.9	9	130.5
1,000	1.0	10	145.0
2,000	2.0	20	290.1
3,000	3.0	30	435.1
4,000	4.0	40	580.2
5,000	5.0	50	725.2
6,000	6.0	60	870.2
7,000	7.0	70	1,015
8,000	8.0	80	1,160
9,000	9.0	90	1,305
10,000	10.0	100	1,450
20,000	20.0	200	2,901
30,000	30.0	300	4,351
40,000	40.0	400	5,802
50,000	50.0	500	7,252
60,000	60.0	600	8,702
70,000	70.0	700	10,153
80,000	80.0	800	11,603
90,000	90.0	900	13,053
100,000	100.0	1,000	14,504
200,000	200.0	2,000	29,008
300,000	300.0	3,000	43,511

**psi to Metric (1 psi = 6.89 kPa)**

Pounds per Square Inch (psi)	Kilo Pascals (kPa)	Mega Pascals (MPa)	Bar (Bar)
10	68.9	0.07	0.7
20	137.9	0.14	1.4
30	206.8	0.21	2.1
40	275.8	0.28	2.8
50	344.7	0.34	3.4
60	413.7	0.41	4.1
70	482.6	0.48	4.8
80	551.6	0.55	5.5
90	620.5	0.62	6.2
100	689	0.7	6.9
200	1,379	1.4	13.8
300	2,068	2.1	20.7
400	2,758	2.8	27.6
500	3,447	3.4	34.5
600	4,137	4.1	41.4
700	4,826	4.8	48.3
800	5,516	5.5	55.2
900	6,205	6.2	62.1
1,000	6,895	6.9	68.9
2,000	13,790	13.8	147.9
3,000	20,684	20.7	206.8
4,000	27,579	27.6	275.8
5,000	34,474	34.5	344.7
6,000	41,369	41.4	413.7
7,000	48,263	48.3	482.6
8,000	55,158	55.2	551.6
9,000	62,053	62.1	620.5
10,000	68,948	68.9	689
20,000	137,895	147.9	1,379
30,000	206,843	206.8	2,068
40,000	275,790	275.8	2,758

## Fraction Equivalents

Fittings

Fractions	Inches Decimals	Millimeters
1/64	0.015625	0.397
1/32	0.03125	0.794
3/64	0.046875	1.191
1/16	0.0625	1.588
5/64	0.078125	1.984
3/32	0.09375	2.381
7/64	0.109375	2.778
1/8	0.125	3.175
9/64	0.140625	3.572
5/32	0.15625	3.969
11/64	0.171875	4.366
3/16	0.1875	4.763
13/64	0.203125	5.159
7/32	0.21875	5.556
15/64	0.234375	5.953
1/4	0.250	6.350
17/64	0.265625	6.747
9/32	0.28125	7.144
19/64	0.296875	7.541
5/16	0.3125	7.938
21/64	0.328125	8.334
11/32	0.34375	8.731
23/64	0.359375	9.128
3/8	0.375	9.525
25/64	0.390625	9.922
13/32	0.40625	10.319
27/64	0.421875	10.716
7/16	0.4375	11.113
29/64	0.453125	11.509
15/32	0.46875	11.906
31/64	0.484375	12.303
1/2	0.500	12.700

Equipment &amp; Accessories

Fractions	Inches Decimals	Millimeters
33/64	0.515625	13.097
17/32	0.53125	13.494
35/64	0.546875	13.891
9/16	0.5625	14.288
37/64	0.578125	14.684
19/32	0.59375	15.081
39/64	0.609375	15.478
5/8	0.625	15.875
41/64	0.640625	16.272
21/32	0.65625	16.669
43/64	0.671875	17.066
11/16	0.6875	17.463
45/64	0.703125	17.859
23/32	0.71875	18.256
47/64	0.734375	18.653
3/4	0.750	19.050
49/64	0.765625	19.447
25/32	0.78125	19.844
51/64	0.796875	20.241
13/16	0.8125	20.638
53/64	0.828125	21.034
27/32	0.84375	21.431
55/64	0.859375	21.828
7/8	0.875	22.225
57/64	0.890625	22.622
29/32	0.90625	23.019
59/64	0.921875	23.416
15/16	0.9375	23.813
61/64	0.953125	24.209
31/32	0.96875	24.606
63/64	0.984375	25.003
1	1.000	25.400

Assemblies

Installation &amp; Maintenance