

- Legend:
A - Recommended
B - Minor to Moderate Effect
C - Moderate to Severe
U - Unsatisfactory
-- Insufficient Data

McDowell Standard Compounds Fluid and
Material Compatability Tables

Chemical	EPR, EPT	Buna N, Nitrile	Neoprene®	Urethane	Silicone	Fluorosilicone	Fluoro Elastomers
	EPDM MCDE-80 -65° to 300°	NBR, MCDN-70 -65° to 225/300°	MCDC-70 -65° to 250/300°	Polyurethane MCDU-90 -40° to 200°	MCDS-70 -80° to 450°	MCDF-70 -100° to 350/400°	Viton® Fluorel® MCDV-75 -15° to 400/500°
Acetaldehyde	A	U	C	U	A	U	U
Acetamide	A	A	B	U	B	A	B
Acetic Acid 5%	A	B	A	U	A	B	A
Acetic Acid 30%	A	B	A	U	A	B	B
Acetic Acid, Hot High Press	C	U	U	U	C	U	U
Acetic Acid, Glacia	B	C	U	U	B	U	U
Acetic Anhydride	B	U	A	U	C	U	U
Acetone	A	U	B	U	B	U	U
Acetophenone	A	U	U	U	U	U	U
Acetyl Acetone	A	U	U	U	U	U	U
Acetyl Chloride	U	U	U	U	C	A	A
Acetylene	A	B	B	-	B	-	A
Acetylene Tetrabomide	A	U	B	U	-	-	A
Acrylonitrile	U	U	C	-	U	U	U
Adipic Acid	-	A	-	-	-	A	-
Aero Lubriplate	U	A	A	A	B	A	A
Aero Safe 2300	A	U	U	U	C	C	U
Aero Save 2300W	A	U	U	U	C	C	U
Aero Shell IAC	U	A	B	A	B	A	A
Aero Shell 7A Grease	U	A	B	A	B	A	A
Aero Shell 17 Grease	U	A	B	A	B	A	A
Aero Shell 750	U	B	U	U	U	B	A
Aerozene 50 (50% Hydrazine 50% UDMH)	A	C	U	U	U	U	U
Air - Below 300°F	B	B	B	C	A	A	A
Air - Above 300°F	U	U	U	U	A	B	A
Alkazene	U	U	U	B	U	B	B
Alum-NH3Cr-K	A	A	A	-	A	-	U
Aluminum Acetate	A	B	B	U	U	U	U
Aluminum Bromide	A	A	A	C	A	A	A
Aluminum Chloride	A	A	A	B	B	A	A
Aluminum Fluoride	A	A	A	C	B	A	A
Aluminum Nitrate	A	A	A	C	B	-	A
Aluminum Phosphate	A	A	A	-	A	-	A
Aluminum Salts	A	A	A	C	A	A	A
Aluminum Sulfate	A	A	A	U	A	A	A
Ambrex 33 Mobil	U	A	B	B	U	C	A
Amines, Mixed	B	U	B	U	B	U	U
Ammonia Anhydrous (Liquid)	A	B	A	U	C	U	U
Ammonia Gas, Cold	A	A	A	-	A	A	U
Ammonia Gas, Hot	B	U	B	-	A	U	U
Ammonia and Lithium Metalin Solution	B	B	-	U	U	U	U
Ammonium Carbonate	A	U	A	-	-	-	-
Ammonium Chloride	A	A	A	A	-	-	A
Ammonium Hydroxide (Concentrated)	A	U	A	U	A	B	B
Ammonium Nitrate	A	A	B	U	-	-	-
Ammonium Nitrite	A	A	A	-	B	-	-
Ammonium Persulfate Solution	A	U	A	U	-	-	-
Ammonium Persulfate Solution (10%)	A	U	A	U	-	-	-
Ammonium Phosphate, Mono-basic	A	A	-	-	A	-	-
Ammonium Phosphate, Diabasic	A	A	A	-	A	-	-
Ammonium Phosphate, Tribasic	A	A	A	-	A	-	-
Ammonium Salts	A	A	A	-	A	C	C
Ammonium Sulfate	A	A	A	A	A	A	A
Ammonium Sulfide	A	A	A	-	-	-	U
Amyl Acetate	A	U	U	U	U	U	U
Amyl Alcohol	A	B	A	U	U	A	B
Amyl Borate	U	A	A	-	-	-	A
Amyl Chloride	U	-	U	-	U	B	A
Amyl Chloranaphthalene	U	U	U	U	U	B	A
Amyl Naphthalene	U	U	U	U	U	A	A

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	EPDM	NBR, MCDN-70	MCDC-70	Polyurethane	MCDS-70	MCDF-70	Viton® Fluorel®
	MCDE-80	-65° to	-65° to	MCDU-90	-80° to 450°	-100° to	MCDV-75
	-65° to 300°	225/300°	250/300°	-40° to 200°		350/400°	-15° to 400/500°
Anderol L-774 (di-ester)	U	U	U	U	U	B	A
Anderol L-826 (di-ester)	U	B	U	U	U	B	A
Anderol L-829 (di-ester)	U	B	U	U	U	B	A
Ang-25 (Glycerol Ester)	A	B	B	U	B	B	A
Ang-25 (Di-ester Base) (TG749)	U	B	U	U	B	B	A
Anhydrous Ammonia	A	B	A	U	B	U	U
Anhydrous Hydrazine	B	U	B	U	-	U	U
Anhydrous Hydrogen Fluoride	A	U	-	-	-	U	U
Aniline	B	U	U	U	U	C	C
Aniline Dyes	B	U	B	U	C	B	B
Aniline Hydrochloride	B	B	U	U	U	B	B
Aniline Oils	B	U	U	U	U	C	C
Animal Fats	B	A	B	B	B	A	A
Animal Oils (Lard Oil)	B	A	B	B	B	A	A
AN-O-3 Grade M	U	A	B	A	B	A	A
AN-O-6	U	A	B	A	U	A	A
AN-O-366	U	A	B	A	U	A	A
AN-VV-O-366b Hydr. Fluid	U	A	B	B	U	A	A
Ansul Ether	C	C	U	B	U	C	U
Aqua Regia	C	U	U	U	U	C	B
Argon	A	C	U	A	B	B	A
Aroclor 1248	B	C	U	-	B	B	A
Aroclor 1254	B	U	U	-	C	B	A
Aroclor 1260	-	A	A	-	A	A	A
Aromatic Fuel 50%	U	B	U	U	U	B	A
Arsenic Acid	A	A	A	C	A	A	A
Arsenic Trichloride	-	A	A	-	-	-	-
Askarel	U	B	U	U	U	B	A
Asphalt	U	B	C	B	U	B	A
ASTM Oil #1	U	A	A	A	A	A	A
ASTM Oil #2	U	A	B	B	U	A	A
ASTM Oil #3	U	A	U	B	C	A	A
ASTM Oil #4	U	B	U	U	U	B	A
ASTM Reference Fuel A	U	A	B	A	U	A	A
ASTM Reference Fuel B	U	A	U	B	U	A	A
ASTM Reference Fuel C	U	B	U	U	U	B	A
ATL-857	U	B	U	U	U	B	A
Atlantic Dominion F	U	A	B	B	U	A	A
Aurex 903R Mobil	U	A	B	A	U	U	A
Automatic Transmission Fluid	U	A	B	B	U	-	A
Automotive Brake Fluid	A	C	B	-	C	U	U
Bardol B	U	U	U	U	U	B	A
Barium Chloride	A	A	A	A	A	A	A
Barium Hydroxide	A	A	A	A	A	A	A
Barium Salts	A	A	A	A	A	A	A
Barium Sulfate	A	A	A	A	A	A	A
Barium Sulfide	A	A	A	A	A	A	A
Bayol D	U	A	B	U	U	A	A
Beer	A	A	A	U	A	A	A
Beet Sugar Liquors	A	A	A	U	A	A	A
Benzaldehyde	A	U	U	U	U	U	U
Benzene	U	U	U	U	U	A	A
Benzenesulfonic Acid	U	U	A	U	U	B	A
Benzine	U	A	B	B	U	A	A
Benzochloride	A	U	U	-	-	A	A
Benzoic Acid	U	U	U	U	B	B	A
Benzophenone	B	-	-	U	-	A	A
Benzyl Alcohol	B	U	B	U	-	B	A
Benzyl Benzoate	B	U	U	-	-	A	A
Benzyl Chloride	U	U	U	U	U	A	A

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Black Point 77	A	A	C	C	C	C	A
Black Sulphate Liquors	B	B	B	U	B	B	A
Blast Furnace Gas	U	U	U	U	A	B	A
Bleach Solutions	A	U	C	U	B	B	A
Borax	A	B	A	A	B	B	A
Bordeaux Mixture	A	B	B	U	B	B	A
Boric Acid	A	A	A	A	A	A	A
Boron Fluids (HEF)	U	B	U	U	U	B	A
Brake Fluid (Non-Petroleum)	A	C	B	-	C	U	U
Bray GG-130	U	B	U	U	U	B	A
Brayco 719-R (VV-H-910)	A	C	B	U	B	B	U
Brayco 885 (MIL-L-6085A)	U	B	U	A	U	B	A
Brayco 910	A	B	B	C	U	U	U
Bret 710	A	B	B	C	U	U	U
Brine	A	A	A	-	-	-	-
Brom-113	U	C	U	-	U	-	-
Brom-114	U	B	B	-	U	-	B
Brominep	U	U	U	U	U	B	A
Bromine Anhydrous	-	-	U	-	C	B	A
Bromine Pentafluoride	U	U	U	U	U	U	U
Bromine Trifluoride	U	U	U	U	U	U	U
Bromine Water	U	U	B	U	U	B	A
Bromobenzene	U	U	U	U	U	A	A
Bromochloro Trifluoroethane	U	U	U	U	U	B	A
Bunker Oil	U	A	U	B	B	A	A
Butadiene	C	U	B	U	U	B	B
Butane	U	A	A	A	U	A	A
Butane 2.2-Dimethyl	U	A	B	U	U	A	A
Butane 2.3-Dimethyl	U	A	B	U	U	A	A
Butanol (Butyl Alcohol)	B	A	A	U	B	A	A
1-Butane, 2-Ethyl	U	A	U	U	U	C	A
Butter	A	A	B	A	B	A	A
Butyl Acetate	B	U	U	U	U	U	U
Butyl Acetyl Ricinoleate	A	B	B	U	-	B	A
Butyl Acrylate	U	U	U	-	-	U	U
Butyl Alcohol	B	A	A	U	B	A	A
Butyl Benzoate	A	U	U	-	-	A	A
Butyl Butyrate	A	U	U	-	-	A	A
Butyl Carbitol	A	B	B	-	U	U	C
Butyl Cellosolve	A	C	C	U	-	U	U
Butyl Cellosolve Adipate	B	U	U	U	B	B	B
Butyl Ether	C	C	U	B	U	C	U
Butyl Oleate	B	U	U	-	-	B	A
Butyl Stearate	B	B	U	-	-	B	A
Butylene	U	B	C	U	U	B	A
Butyraldehyde	B	U	U	U	U	U	U
Butyric Acid	B	U	U	-	-	-	B
Calcine Liquors	A	A	-	U	-	A	A
Calcium Acetate	A	B	B	U	U	U	U
Calcium Bisulfite	U	A	A	A	A	A	A
Calcium Carbonate	A	A	A	C	A	A	A
Calcium Chloride	A	A	A	A	A	A	A
Calcium Cyanide	A	A	A	-	A	-	-
Calcium Hydroxide	A	A	A	A	A	A	A
Calcium Hypochloride	A	U	U	U	-	A	A
Calcium Hypochlorite	A	C	C	U	B	B	A
Calcium Nitrate	A	A	A	A	B	A	A
Calcium Phosphate	A	A	B	A	A	-	A
Calcium Salts	A	A	A	A	B	A	A
Calcium Silicate	A	A	A	-	-	-	A

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Chemical	EPR, EPT	Buna N, Nitrile	Neoprene®	Urethane	Silicone	Fluorosilicone	Fluoro Elastomers
	EPDM MCDE-80 -65° to 300'	NBR, MCDN-70 -65° to 225/300°	MCDC-70 -65° to 250/300°	Polyurethane MCDU-90 -40° to 200°	MCDS-70 -80° to 450'	MCDF-70 -100° to 350/400°	Viton® Fluorel® MCDV-75 -15° to 400/500°
Calcium Sulfide	A	B	A	A	B	A	A
Calcium Sulfite	A	A	A	A	A	A	A
Calcium Thiosulfate	A	B	A	A	A	A	A
Caliche Liquors	A	A	A	A	B	A	A
Cane Sugar Liquors	A	A	A	U	A	A	A
Caproic Aldehyde	B	-	-	U	B	U	U
Carbamate	B	C	B	U	-	A	A
Carbitol	B	B	B	U	B	B	B
Carbolic Acid	B	U	C	-	U	A	A
Carbon Bisulfide	U	C	U	-	-	A	A
Carbon Dioxide, Dry	B	A	B	A	B	B	B
Carbon Dioxide, Wet	B	A	B	-	B	B	B
Carbon Disulfide	U	U	U	-	-	A	A
Carbon Monoxide	A	A	A	A	A	B	A
Carbon Tetrachloride	U	C	U	U	U	A	A
Carbonic Acid	A	B	A	A	A	A	A
Castor Oil	B	A	A	A	A	A	A
Cellosolve	B	U	U	U	U	U	U
Cellosolve Acetate	B	U	U	U	U	U	U
Cellosolve Butyl	B	U	U	U	U	U	U
Cellugard	A	A	A	U	A	A	A
Cellulube A60 (Now Fyrquel)	A	U	U	U	-	C	B
Cellulube 90,100,150,220,300,500	A	U	U	U	A	B	A
Cellutherm 2505A	U	B	U	U	U	B	A
Cetane (Hexadecane)	U	A	B	U	U	C	A
China Wood Oil (Tung Oil)	U	A	B	C	U	B	A
Chloracetic Acid	B	U	U	U	-	U	U
Chlorodane	U	B	C	-	U	B	A
Chlorextol	U	B	B	U	U	B	A
Chlorinated Salt Brine	U	U	U	U	U	A	A
Chlorinated Solvents, Dry	U	U	U	U	U	A	A
Chlorinated Solvents, Wet	U	U	U	U	U	A	A
Chlorine, Dry	A	U	C	U	U	A	A
Chlorine, Wet	C	U	U	U	-	B	A
Chlorine Dioxide	C	U	U	U	-	B	A
Chlorine Dioxide (8% Cl as NACIO2 in solution)	U	U	U	U	-	B	A
Chlorine Trifluoride	U	U	U	U	U	B	U
Chloroacetone	A	U	B	U	U	U	U
Chloroacetic Acid	B	-	A	-	-	-	-
Chlorobenzene	U	U	U	U	U	B	A
Chlorobenzene, (Mono)	U	U	U	U	U	B	A
Chlorobromo Methane	B	U	U	U	U	B	B
Chlorobutadiene	U	U	U	U	U	B	A
Chlorododecane	U	U	U	U	U	A	A
Chloroform	U	U	U	U	U	B	A
O-Chloronaphthalene	U	U	U	U	U	B	A
1-Chloro 1-Nitro Ethane	U	U	U	U	U	U	C
Chlorosulfonic Acid	U	U	U	U	U	U	C
Chlorotoluene	U	U	U	U	U	B	A
Chlorox	B	B	B	U	-	A	A
O-Chlorphenol	U	U	U	U	U	B	A
Chrome Alum	A	A	A	-	A	-	A
Chrome Plating Solutions	U	U	U	U	B	B	A
Chromic Acid	C	U	U	U	C	C	A
Chromic Oxide .88 Wt. % Aqueous Solution	B	U	U	U	B	B	A
Circo Light Process Oil	U	A	B	A	U	A	A
Citric Acid	A	A	A	A	A	A	A
City Service Koolmotor-AP Gear Oil 140-E.P. lube	U	A	B	A	U	A	A
City Service Pacemaker #2	U	A	B	B	U	A	A
City Service #65, #120, #250	U	A	B	B	U	A	A

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Colbalt Chloride	A	A	A	U	B	A	A
Cobalt Chloride, 2N	A	A	A	U	A	A	A
Cocoonut Oil	C	A	C	C	A	A	A
Cod Liver Oil	A	A	B	A	B	A	A
Coffee	A	A	A	U	A	A	A
Coke Oven Gas	U	U	U	U	B	B	A
Coliche Liquors	B	B	A	-	-	-	-
Convelex 10	-	U	U	B	U	-	-
Coolanol (Monsanto)	U	A	A	U	U	B	A
Coolanol (Monsanto0	U	A	A	U	U	B	A
Cooper Acetate	A	B	B	U	U	U	U
Copper Choloride	A	A	A	A	A	A	A
Copper Cynanide	A	A	A	A	A	A	A
Copper Salts	A	A	A	A	A	A	A
Copper Sulfate	A	A	A	A	A	A	A
Copper Sulfate 10%	A	A	A	B	A	A	A
Copper Sulfate 50%	A	A	A	C	A	A	A
Corn Oil	C	A	C	A	A	A	A
Cottonseed Oil	C	A	C	A	A	A	A
Creasols	U	U	U	U	U	B	A
Creosote	C	B	C	B	U	A	A
Creosote, Coal Tar	U	A	B	C	U	A	A
Creasote, Wood	U	A	B	C	U	A	A
Crude Oil	U	B	U	-	U	B	A
Cumene	U	U	U	U	U	B	A
Cutting Oil	U	A	B	A	U	A	A
Cyclohexane	U	A	U	B	U	A	A
Cyclohexanol	U	B	B	-	U	A	A
Cyclohexanone	B	U	U	U	U	U	U
P-Cymene	U	U	U	U	U	B	A
Decalin	U	U	U	-	U	A	A
Decane	U	B	U	B	B	A	A
Diacetone	A	C	B	-	C	U	U
Diacetone Alcohol	A	A	A	U	A	A	A
Diazinon	A	A	A	U	A	A	A
Developing Fluids (Photo)	B	A	A	-	A	A	A
Dextron	U	A	B	B	U	B	A
Diacetone	A	U	U	U	U	U	U
Diacetone Alcohol	A	U	U	U	U	U	U
Diazinon	U	C	C	-	U	B	B
Dibenzyl Ether	B	U	U	B	-	-	U
Dibenzyl Sebacate	B	U	U	B	C	C	B
Dibromoethyl Benzene	U	U	U	U	U	B	A
Dibutylamine	U	U	U	U	C	U	U
Dibutyl Ether	C	U	U	B	U	C	C
Dibutyl Phthalate	A	U	U	U	B	C	B
Dibutyl Sebacate	B	U	U	U	B	B	B
O-Dichlorobenzene	U	U	U	U	U	B	A
P-Dichlorobenzene	U	U	U	U	U	B	A
Dichloro-Butane	U	B	U	U	U	B	A
Dichloro-Isopropyl Ether	C	U	U	B	U	C	C
Dicyclohexylamine	U	C	U	U	-	U	U
Diesel Oil	U	A	B	C	U	A	A
Di-ester Lubricant MIL-L-7808	U	B	U	U	U	B	A
Di-ester Synthetic Lubricants	U	B	U	U	UB	B	A
Diethylamine	B	C	C	C	B	U	U
Diethyl Benzene	U	U	U	U	U	C	A
Diethyl Ether	U	U	C	A	U	C	U
Diethyl Sebacate	B	U	U	U	B	B	B
Diethylene Glycol	A	A	A	U	B	A	A

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Difluorodibromomethane	B	U	U	U	U	-	-
Diisobutylene	U	B	U	U	U	C	A
Diisooctyl Sebacate	C	C	U	U	C	C	B
Diisopropyl Benzene	U	U	U	-	-	B	A
Diisopropyl Ketone	A	U	U	U	U	U	U
Dimethyl Aniline	B	-	U	-	-	U	U
Dimethyl Formamide	B	B	U	-	B	U	U
Dimethyl Phthalate	B	U	U	-	-	B	B
Dinitro Toluene	U	U	U	U	U	U	U
Diocetyl Phthalate	B	U	U	U	C	B	B
Diocetyl Sebacate	B	U	U	B	C	C	B
Dioxane	B	U	U	U	U	U	U
Dioxolane	B	U	U	U	U	U	U
Dipentene	U	B	U	U	U	C	A
Diphenyl	U	U	U	U	U	B	A
Diphenyl Oxides	U	A	U	U	C	B	A
Dow Chemical 50-4	A	-	B	-	-	U	U
Dow Chemical ET378	-	U	U	B	U	-	-
Dow Chemical ET588	A	C	B	A	-	U	U
Dow Corning-3	A	A	A	A	C	A	A
Dow Corning-4	A	A	A	A	C	A	A
Dow Corning-5	A	A	A	A	C	A	A
Dow Corning-11	A	A	A	A	C	A	A
Dow Corning-33	A	A	A	A	C	A	A
Dow Corning-44	A	A	A	A	C	A	A
Dow Corning-55	A	A	A	A	C	A	A
Dow Corning-200	A	A	A	A	C	A	A
Dow Corning-220	A	A	A	A	C	A	A
Dow Corning-510	A	A	A	A	C	A	A
Dow Corning-550	A	A	A	A	C	A	A
Dow Corning-704	A	B	-	-	-	-	A
Dow Corning-705	A	B	-	-	-	-	A
Dow Corning-710	A	A	A	A	C	A	A
Dow Corning-1208	A	A	A	A	C	A	A
Dow Corning-4050	A	A	A	A	C	A	A
Dow Corning-6620	A	A	A	A	C	A	A
Dow Corning-F60	A	A	A	A	C	A	A
Dow Corning-F61	A	A	A	A	B	A	A
Dow Corning-XF60	A	A	A	A	C	A	A
Dow Guard	A	A	A	C	A	A	A
Dowtherm Oil	U	-	U	B	B	A	A
Dowtherm A or E	U	U	U	U	U	B	A
Dowtherm 209, 50% Solution	A	C	B	-	C	-	U
Drinking Water	A	A	B	U	A	A	A
Dry Cleaning Fluids	U	C	U	U	U	B	A
DTE Light Oil	U	A	B	B	U	A	A
ELCO 28-EP Lubricant	U	A	C	A	B	A	A
Epichlorohydrin	B	U	U	U	U	U	U
Epoxy Resins	A	-	A	-	-	-	U
Esam-6 Fluid	A	-	B	-	-	U	U
Esso Fluel 208	U	A	B	U	U	A	A
Esso Golden Gasoline	U	B	U	U	U	A	A
Esso Motor Oil	U	A	C	U	U	A	A
Esso Transmission fluid (type A9	U	A	B	C	U	A	A
Esso WS3812 (MIL-L-7808A)	U	A	U	U	U	A	A
Esso XP90-EP Lubricant	U	A	B	A	U	A	A
Esstic 42, 43	U	A	B	B	U	A	A
Ethane	U	A	B	C	U	B	A
Ethanol	A	C	A	U	B	A	C
Ethanol Amine	B	B	B	C	B	U	U

- Legend:**
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-- Insufficient Data

**McDowell Standard Compounds Fluid
and Material Compatability Tables**

Chemical	EPR, EPT EPDM	Buna N, Nitrile NBR, MCDN-70	Neoprene® MDCD-70	Urethane Polyurethene MCDU-90	Silicone MCDS-70	Fluorosilicone MCDF-70	Fluoro Elastomers Viton® Fluorel® MCDV-75
	-65° to 300°	-65° to 225/300°	-65° to 250/300°	-40° to 200°	-80° to 450°	-100° to 350/400°	-15° to 400/500°
Ethers	C	U	U	B	U	C	C
Ethyl Acetate-Organic Ester	B	U	U	U	B	U	U
Ethyl Acetoacetate	B	U	U	U	B	U	U
Ethyl Acrylate	B	U	U	U	B	U	U
Ethyl Acrylic Acid	B	U	B	U	U	U	U
Ethyl Alcohol	A	C	A	U	B	A	A
Ethyl Benzene	U	U	U	U	U	A	A
Ethyl Benzoate	U	U	U	U	U	A	A
Ethyl Bromide	U	B	U	-	-	A	A
Ethyl Cellulose	B	B	B	B	C	U	U
Ethyl Chloride	A	A	B	B	U	A	A
Ethyl Chlorocarbonate	U	U	U	U	U	B	A
Ethyl Chloroformate	U	U	U	U	U	B	A
Ethyl Cyclopentane	U	A	C	A	U	A	A
Ethyl Ether	C	C	U	B	U	C	U
Ethyl Formate	B	U	B	-	-	A	A
Ethyl Hexanol	A	A	A	U	B	A	A
Ethyl Mercaptan	U	U	C	-	C	-	B
Ethyl Oxalate	U	U	U	A	U	B	A
Ethyl Pentachlorobenzene	U	U	U	U	U	B	A
Ethyl Silicate	A	A	A	-	-	A	A
Ethylene	-	-	-	-	-	A	A
Ethylene Chloride	U	U	U	U	U	C	B
Ethylene Chlorohydrin	B	U	B	U	C	B	A
Ethylene Diamine	A	A	A	U	A	U	U
Ethylene Dibromide	C	U	U	U	U	C	A
Ethylene Dichloride	C	U	U	U	U	C	A
Ethylene Glycol	A	A	A	B	A	A	A
Ethylene Oxide	C	U	U	U	U	U	U
Ethylene Trichloride	C	U	U	U	U	C	A
Ethylmorpholene Stannous Octoate (50/50 mixture)	B	U	-	-	-	-	U
F-60 Fluid (Dow Corning)	A	A	A	A	U	A	A
F-61 Fluid (Dow Corning)	A	A	A	A	U	A	A
Fatty Acids	U	B	B	-	C	-	A
FC-43 Heptacosofluorotri-butylamine	A	A	A	-	A	A	A
FC75 Fluorocarbon	A	A	A	-	A	B	B
Ferric Chloride	A	A	B	A	B	A	A
Ferric Nitrate	A	A	A	A	C	A	A
Ferric Sulfate	A	A	A	-	B	A	A
Fish Oil	-	A	-	-	A	A	A
Fluoroboric Acid	A	A	A	-	-	-	-
Fluorine (Liquid)	C	-	-	-	U	-	B
Fluorobenzene	U	U	U	-	U	B	A
Fluorocarbon Oils	A	-	-	-	-	-	-
Fluorolube	A	A	A	-	A	B	B
Fluorinated Cyclic Ethers	A	-	-	-	-	-	-
Fluosilic Acid	-	A	A	-	-	-	-
Formaldehyde	A	C	C	U	B	U	U
Formic Acid	A	B	A	U	B	C	C
Freon, 11	U	B	U	U	U	B	A
Freon, 12	B	A	A	A	U	U	B
Freon, 12 and ASTM-Oil #2 (50/50 mixture)	U	A	B	-	U	B	A
Freon, 12 and Suniso 4G (50/50 mixture)	U	A	B	-	U	B	A
Freon, 13	A	A	A	-	U	U	A
Freon, 13B1	A	A	A	A	U	B	A
Freon, 14	A	A	A	A	U	-	A
Freon, 21	U	U	B	-	U	-	U
Freon, 22	A	U	A	U	U	U	U
Freon, 22 and ASTM Oil #2 (50/50 mixture)	U	U	B	-	U	B	B
Freon, 31	A	U	A	-	-	-	U

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-- Insufficient Data

**McDowell Standard Compounds Fluid
and Material Compatability Tables**

Chemical	EPR, EPT EPDM	Buna N, Nitrile NBR, MCDN-70	Neoprene® MCDC-70	Urethane Polyurethane MCDU-90	Silicone MCDS-70	Fluorosilicone MCDF-70	Fluoro Elastomers Viton® Fluorel® MCDV-75
	-65° to 300°	-65° to 225/300°	-65° to 250/300°	-40° to 200°	-80° to 450°	-100° to 350/400°	-15° to 400/500°
Freon, 32	A	A	A	-	-	-	U
Freon, 112	A	B	B	-	U	-	A
Freon, 113	U	A	A	B	U	U	B
Freon, 114	A	A	A	A	U	B	B
Freonm 114B2	U	B	A	-	U	-	B
Freon, 115	A	A	A	-	U	-	B
Freon, 142b	A	A	A	-	-	-	U
Freon, 152a	A	A	A	-	-	-	U
Freon, 218	A	A	A	-	-	-	A
Freon, C316	A	A	A	-	-	-	-
Freon, C318	A	A	A	-	-	-	A
Freon, 502	A	B	A	-	-	-	B
Freon, BF	U	B	B	-	-	-	A
Freon, MF	U	B	U	-	U	-	B
Freon, TF	U	A	A	A	U	-	B
Freon, TA	A	A	A	A	A	-	C
Freon, TC	B	A	A	A	U	-	A
Freon, TMC	B	B	B	B	C	-	A
Freon, T-P35	A	A	A	A	A	-	A
Freon, T-WD602	B	B	B	A	U	-	A
Freon, PCA	U	A	A	A	U	-	B
Fuel Oil	U	A	B	U	U	A	A
Fuel Oil, Acidic	U	A	B	B	A	A	A
Fuel Oil, #6	U	B	U	B	A	A	A
Fumaric Acid	-	A	B	-	B	A	A
Fuming Sulphuric Acid (20/50% Oleum)	U	U	U	U	U	-	A
Furan (Furfuran 9	C	U	U	-	-	-	-
Furfural	B	U	U	-	U	-	U
Furfuraldehyde	B	U	U	-	U	-	U
Furfaryl Alcohol	B	U	U	U	U	U	-
Furyl Carbinol	B	U	U	U	U	U	-
Fyrquel A60	B	U	U	U	C	U	U
Fyrquel 90, 100, 150, 220, 300, 500	A	U	U	U	A	B	A
Gallic Acid	B	B	B	U	-	A	A
Gasoline	U	A	B	B	U	A	A
Gelatin	A	A	A	U	A	A	A
Girling Brake Fluid	A	C	B	-	-	U	U
Glacial Acetic Acid	B	B	U	U	B	U	U
Glauber's Salt	B	U	B	-	-	A	B
Glucose	A	A	A	U	A	A	A
Glue (Depending on type)	A	A	A	A	A	A	A
Glycerine-Glycerol	A	A	A	U	A	A	A
Glycols	A	A	A	U	A	A	A
Green Sulphate Liquor	A	B	B	A	A	B	A
Gulfcrown Grease	U	A	B	A	U	A	A
Gulf Endurance Oils	U	A	B	A	U	A	A
Gulf FR Fluids (Emulsion)	U	A	B	A	U	A	A
Gulf FRG-Fluids	A	A	A	B	A	A	A
Gulf FRP-Fluids	B	U	U	U	A	B	B
Gulf Harmony Oils	U	A	B	A	U	A	A
Gulf High Temperature Grease	U	A	B	A	U	A	A
Gulf Legion Oils	U	A	B	A	U	A	A
Gulf Paramount Oils	U	A	B	B	U	A	A
Gulf Security Oils	U	A	B	B	U	A	A
Halothane	U	U	U	U	U	B	A
Halowax Oil	U	U	U	-	U	A	A
Hannifin Lube A	U	A	A	A	B	A	A
Heavy Water	A	A	B	U	A	A	-
HEF-2 (High Energy Fuel)	U	B	U	U	U	B	A
Helium	A	A	A	A	A	A	A

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-- Insufficient Data

**McDowell Standard Compounds Fluid
and Material Compatibility Tables**

Chemical	EPR, EPT	Buna N, Nitrile	Neoprene®	Urethane	Silicone	Fluorosilicone	Fluoro Elastomers
	EPDM	NBR, MCDN-70	MDCD-70	Polyurethane	MCDS-70	MCDF-70	Viton® Fluorel®
	MCDE-80 -65° to 300°	-65° to 225/300°	-65° to 250/300°	MCDU-90 -40° to 200°	-80° to 450°	-100° to 350/400°	MCDV-75 -15° to 400/500°
N-Heptane	U	A	B	B	U	A	A
N-Hexaldehyde	A	U	A	B	B	U	U
Hexane	U	A	B	B	U	A	A
N-Hexane-1	U	B	B	B	U	A	A
Hexyl Alcohol	C	A	B	U	B	B	A
High Viscosity Lubricant, U4	A	A	B	U	A	B	A
High Viscosity Lubricant, H2	A	A	B	U	A	B	A
Hilo MS #1	A	U	U	U	C	C	U
Houghto-Safe 271 (Water and Glycol Base)	A	A	B	U	B	B	B
Houghto-Safe 620 (Water and Glycol base)	A	A	B	U	B	B	B
Houghto-Safe 1010, Phosphate Ester	A	U	U	-	C	B	A
Houghto-Safe 1055, Phosphate Ester	A	U	U	-	C	B	A
Houghto-Safe 1120, Phosphate Ester	A	U	U	U	C	B	A
Houghto-Safe 5040, (Water/Oil emulsion)	U	A	B	U	C	B	A
Hydraulic Oil (Petroleum Base)	U	A	B	A	C	A	A
Hydrazine	A	B	B	U	C	-	-
Hydrobromic Acid	A	U	U	U	U	C	A
Hydrobromic Acid 40%	A	U	B	U	U	C	A
Hydrocarbons (Saturated)	U	A	B	B	U	A	A
Hydrochloric Acid Hot 37%	C	U	U	U	U	U	A
Hydrochloric Acid Cold 37%	A	B	B	U	B	B	A
Hydrochloric Acid 3 Molar	A	C	C	-	U	B	A
Hydrochloric Acid Concentrated	C	U	U	-	U	C	A
Hydrocyanic Acid	A	B	B	-	C	B	A
Hydro-Drive, MIH-50 (Petroleum Base)	U	A	B	B	B	A	A
Hydro-Drive, MIH-10 (Petroleum Base)	U	A	B	B	B	A	A
Hydrofluoric Acid, 65%Max. Cold	A	B	A	-	U	-	A
Hydrofluoric Acid, 65% Min. Cold	C	U	U	-	U	U	A
Hydrofluoric Acid, 65% Max. Hot	U	U	C	U	U	U	C
Hydrofluoric Acid, 65% Min. Hot	U	U	U	U	U	U	C
Hydrofluosilicic Acid	A	B	B	-	U	U	A
Hydrogen Gas, Cold	A	A	A	A	C	C	A
Hydrogen Gas, Hot	A	A	A	A	C	C	A
Hydrogen Peroxide (1)	A	B	A	-	A	A	A
Hydrogen Peroxide 90% (1)	C	U	U	-	B	B	B
Hydrogen Sulfide Dry, Cold	A	A	A	-	C	C	U
Hydrogen Sulfide Dry, Hot	A	U	B	-	C	C	U
Hydrogen Sulfide Wet, Cold	A	U	A	-	C	C	U
Hydrogen Sulfide Wet, Hot	A	U	B	-	C	C	U
Hydorlube-Water/Ethylene Glycol	A	A	B	U	B	B	A
Hydroquinone	U	C	U	-	-	B	U
Hydyne	A	B	B	-	U	U	U
Hyjet	A	U	U	U	-	-	U
Hyjet III	A	U	U	U	-	-	U
Hyjet S	A	U	U	U	-	-	U
Hyjet W	A	U	U	U	-	-	U
Hypochlorous Acid	B	U	U	-	-	-	A
Industron FF44	U	A	B	B	U	A	A
Industron FF48	U	A	B	B	U	A	A
Industron FF53	U	A	B	B	U	A	A
Industron FF80	U	A	B	B	U	A	A
Iodine	B	B	U	-	-	A	A
Iodine Pentafluoride	U	U	U	U	U	U	U
Iodoform	A	-	-	-	-	-	-
Isobutyl Alcohol	A	B	A	U	A	B	A
Iso-Butyl N-Butyrate	A	U	U	-	-	A	A
Isododecane	U	A	B	-	U	A	A
Iso-Octane	U	A	B	B	U	A	A
Isophorone (Ketone)	A	U	U	U	U	U	U
Isopropanol	A	B	B	U	A	B	A

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**McDowell Standard Compounds Fluid
and Material Compatability Tables**

Chemical	EPR, EPT EPDM	Buna N, Nitrile NBR, MCDN-70	Neoprene® MCDC-70	Urethane Polyurethane MCDU-90	Silicone MCDS-70	Fluorosilicone MCDF-70	Fluoro Elastomers Viton® Fluorel® MCDV-75
	MCDE-80 -65° to 300°	-65° to 225/300°	-65° to 250/300°	-40° to 200°	-80° to 450°	-100° to 350/400°	-15° to 400/500°
Isopropyl Acetate	B	U	U	U	U	U	U
Isopropyl Alcohol	A	B	B	U	A	B	A
Isopropyl Chloride	U	U	U	U	U	B	A
Isopropyl Ether	U	B	C	B	U	C	U
JP 3 (MIL-J-5624)	U	A	U	B	U	A	A
JP 4 (MIL-J-5624)	U	A	U	B	U	B	A
JP 5 (MIL-J-5624)	U	A	U	B	U	B	A
JP 6 (MIL-J-25656)	U	A	U	B	U	B	A
JP X (MIL-F-25604)	U	A	B	-	U	U	U
Kel F Liquids	A	A	-	-	A	B	B
Kerosene	U	A	C	B	U	A	A
Keystone #87HX-Grease	U	A	U	A	U	A	A
Lactams-Amino Acids	B	U	B	-	-	U	U
Lactic Acid, Cold	A	A	A	-	-	A	A
Lactic Acid, Hot	U	U	U	-	-	B	A
Lacquers	U	U	U	U	U	U	U
Lacquer Solvents	U	U	U	U	U	A	U
Lactic Acids	A	A	A	-	A	A	A
Lard, Animal Fats	U	A	C	A	B	A	A
Lavender Oil	U	B	U	U	U	A	A
Lead Acetate	A	B	B	U	U	A	U
Lead Nitrate	A	A	A	-	B	A	-
Lead Sulphamate	A	B	A	-	B	A	A
Lehigh X1169	U	A	B	A	U	A	A
Lehigh X1170	U	A	B	A	U	C	A
Light Grease	U	A	U	A	U	-	A
Ligroin (Petroleum Ether or Benzine)	U	A	B	B	U	A	A
Lime Bleach	A	A	B	-	B	U	A
Lime Sulphur	A	U	A	-	A	C	A
Lindol, Hydraulic Fluid (Phosphate ester type)	A	U	U	U	C	A	B
Linoleic Acid	U	B	U	-	B	B	B
Linseed Oil	C	A	C	B	A	A	A
Liquid Oxygen	U	U	U	U	U	B	U
Liquid Petroleum Gas (LPG)	U	A	B	A	C	A	A
Liquimoly	U	A	B	B	U	-	A
Lubricating Oils, Di-ester	U	B	C	-	U	A	A
Lubricating Oils, SAE 10, 20, 30, 40, 50	U	A	B	B	U	A	A
Lye Solutions	A	B	B	U	B	A	B
Magnesium Chloride	A	A	A	A	A	B	A
Magnesium Hydroxide	A	B	B	B	-	-	A
Magnesium Sulphate	A	A	A	-	A	-	A
Magnesium Sulphite	A	A	A	-	A	A	A
Magnesium Salts	A	A	A	A	A	A	A
Malathion	U	B	-	-	U	C	A
Maleic Acid	U	U	U	-	-	C	A
Maleic Anhydride	U	U	U	-	-	-	A
Malic Acid	U	A	B	-	B	A	A
MCS 312	U	U	U	-	A	A	A
MCS 352	A	U	U	U	C	C	U
MCS 463	A	U	U	U	C	C	U
Mercuric Chloride	A	A	A	-	-	-	A
Mercury	A	A	A	A	-	-	A
Mercury Vapors	A	A	A	-	-	-	A
Mesityl Oxide (Ketone)	B	U	U	U	U	U	U
Methane	U	A	B	C	U	B	A
Methanol	A	A	A	U	A	A	A
Methyl Acetate	B	U	B	U	U	U	U
Methyl Acetoacetate	B	U	U	U	B	U	U
Methyl Acrylate	B	U	B	U	U	U	U
Methylacrylic Acid	B	U	B	U	U	U	C

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**McDowell Standard Compounds Fluid
and Material Compatability Tables**

Chemical	EPR, EPT EPDM MCDE-80 -65° to 300°	Buna N, Nitrile NBR, MCDN-70 -65° to 225/300°	Neoprene® MCDC-70 -65° to 250/300°	Urethane Polyurethane MCDU-90 -40° to 200°	Silicone MCDS-70 -80° to 450°	Fluorosilicone MCDF-70 -100° to 350/400°	Fluoro Elastomers Viton® Fluorel® MCDV-75 -15° to 400/500°
	Methyl Alcohol	A	A	A	U	A	A
Methyl Benzoate	U	U	U	U	U	A	A
Methyl Bromide	U	B	U	-	-	A	A
Methyl Butyl Ketone	A	U	U	U	U	U	U
Methyl Carbonate	U	U	U	U	U	B	A
Methyl Cellosolve	B	C	B	U	U	U	U
Methyl Cellulose	B	B	B	B	B	U	U
Methyl Chloride	C	U	U	U	U	B	A
Methyl Chloroformate	U	U	U	U	U	B	A
Methyl D-Bromide	-	U	U	U	U	B	A
Methyl Cyclopentane	U	U	U	U	U	B	A
Methylene Chloride	U	U	U	U	U	B	B
Methylene Dichloride	U	U	U	U	U	B	B
Methyl Ether	A	A	C	-	A	A	A
Methyl Ethyl Ketone (MEK)	A	U	U	U	U	U	U
Methyl Ethyl Ketone Peroxide	U	U	U	U	B	U	U
Methyl Formate	B	U	B	-	B	-	-
Methyl Isobutyl Ketone (MIBK)	C	U	U	U	U	U	U
Methyl Isopropyl Ketone	B	U	U	U	U	U	U
Methyl Methacrylate	U	U	U	-	C	U	U
Methyl Oleate	B	U	U	-	-	B	A
Methyl Salicylate	B	U	U	-	-	-	-
MIL-L-644B	C	A	U	C	C	-	-
MIL-L-2104B	U	A	C	A	U	A	A
MIL-L-2105B	U	A	U	A	C	A	A
MIL-G-2108	U	A	U	A	C	A	A
MIL-S-3136B, Type I Fuel	U	A	B	B	U	A	A
MIL-S-3136B, Type II Fuel	U	B	U	C	U	B	A
MIL-S-3136B, Type III Fuel	U	B	U	C	U	B	A
MIL-S-3136B, Type IV Fuel	U	A	U	A	C	A	A
MIL-S-3136B, Type V Fuel	U	A	B	B	C	A	A
MIL-S-3136B, Type VI Fuel	U	A	U	B	C	A	A
MIL-S-3136B, Type VII Fuel	U	A	C	C	U	A	A
MIL-L-3150A	U	A	B	B	U	A	A
MIL-G-3278	U	B	U	B	U	B	A
MIL-L-3503	U	A	B	B	U	A	A
MIL-L-3545B	U	B	B	C	U	A	A
MIL-C-4339C	U	A	U	U	C	A	A
MIL-G-4343B	C	B	B	A	U	B	A
MIL-L-5020A	U	A	B	B	U	A	A
MIL-J-5161F	U	B	U	C	U	A	A
MIL-C-5545A	U	B	B	C	U	A	A
MIL-H-5559A	A	A	B	C	B	B	B
MIL-F-5566	A	B	B	U	A	A	A
MIL-G-5572	U	A	U	B	U	A	A
MIL-F-5602	U	A	B	B	C	A	A
MIL-H-5606B	U	A	B	B	U	A	A
MIL-J-5624G, JP-3	U	A	U	C	U	B	A
MIL-J-5624G, JP-4	U	A	U	C	U	B	A
MIL-J-5624G, JP-5	U	A	U	C	U	B	A
MIL-L-6081C	U	A	B	B	U	A	A
MIL-L-6082C	U	A	B	A	C	A	A
MIL-H-6083C	U	A	B	B	U	A	A
MIL-6085A	U	B	U	C	U	B	A
MIL-L-6086B	U	A	A	A	C	A	A
MIL-A-6091	A	B	A	U	A	A	A
MIL-L-6387A	U	B	U	B	U	B	A
MIL-C-6529C	U	B	B	C	U	A	A
MIL-F-7024A	U	A	U	B	U	A	A
MIL-H-7083	A	A	B	U	B	B	B

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**McDowell Standard Compounds Fluid
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Chemical	EPR, EPT	Buna N, Nitrile	Neoprene®	Urethane	Silicone	Fluorosilicone	Fluoro Elastomers
	EPDM MCDE-80 -65° to 300°	NBR, MCDN-70 -65° to 225/300°	MCDC-70 -65° to 250/300°	Polyurethane MCDU-90 -40° to 200°	MCDS-70 -80° to 450°	MCDF-70 -100° to 350/400°	Viton® Fluorel® MCDV-75 -15° to 400/500°
MIL-G-7118B	U	B	C	C	U	A	A
MIL-G-7187	U	A	U	A	U	A	A
MIL-G-7421A	U	B	C	B	U	B	A
MIL-H-7644	A	B	B	C	U	B	A
MIL-L-7645	U	B	B	C	U	A	A
MIL-G-7711A	U	A	U	A	C	A	A
MIL-L-7808F	U	B	U	U	U	B	A
MIL-L-7870A	U	A	B	U	U	A	A
MIL-C-8188C	U	B	U	U	U	B	B
MIL-A-8243B	A	A	B	C	B	B	B
MIL-L-8383B	U	A	A	A	C	A	A
MIL-H-8446B	U	B	B	U	U	A	A
MIL-I-8660B	A	A	A	A	U	A	A
MIL-L-9000F	U	A	B	C	U	B	A
MIL-T-9188B	A	U	U	U	U	C	U
MIL-L-9236B	U	B	U	U	U	B	A
MIL-E-9500	A	A	A	U	A	A	A
MIL-L-10295A	U	A	B	B	C	A	A
MIL-L-10324A	U	A	B	B	C	A	A
MIL-G-10924B	U	A	U	B	U	A	A
MIL-L-11734b	U	A	C	C	C	A	A
MIL-O-11773	U	A	C	C	C	A	A
MIL-P-12098	A	B	B	C	U	B	A
MIL-H-13862	U	A	B	B	C	A	A
MIL-H-13910B	A	B	B	U	U	B	A
MIL-H-13919A	U	A	B	A	C	A	A
MIL-L-14107B	U	C	A	-	U	A	A
MIL-L-15016	U	A	B	A	U	B	AA
MIL-L-15017	U	A	B	A	U	B	A
MIL-L-15018B	U	A	A	A	C	A	A
MIL-L-15019C	U	A	A	A	C	A	A
MIL-L-15719A	B	B	B	U	U	B	A
MIL-G-15793	U	A	C	C	U	B	A
MIL-F-16884	U	A	C	C	U	A	A
MIL-F-16929A	U	A	C	C	C	A	A
MIL-L-16958A	U	A	B	B	C	A	A
MIL-F-17111	U	A	B	C	U	B	A
MIL-L-17331D	U	A	B	A	U	A	A
MIL-L-17353A	U	A	C	B	U	A	A
MIL-L-17672B	U	A	A	A	C	A	A
MIL-L-18486A	U	A	A	A	C	A	A
MIL-G-18709A	U	A	A	A	C	A	A
MIL-H-19457B	A	U	U	U	U	U	U
MIL-F-19605	U	A	C	C	U	A	A
MIL-L-19701	U	A	C	C	C	A	A
MIL-L-21260	U	A	B	A	U	A	A
MIL-G-21568A	A	A	A	A	U	B	A
MIL-H-22072	A	A	B	C	B	B	B
MIL-H-22251	A	B	B	-	U	-	-
MIL-L-22396	U	A	A	A	C	A	A
MIL-L-23699A	U	B	C	C	U	B	A
MIL-G-23827A	U	A	C	C	C	A	A
MIL-G-25013D	U	A	B	C	U	B	A
MIL-F-25127	U	A	C	C	U	A	A
MIL-L-25336B	U	A	C	C	C	A	A
MIL-F-25524A	U	A	C	C	U	A	A
MIL-G-25537A	U	A	B	B	U	A	A
MIL-F-25558B	U	A	B	B	U	A	A
MIL-F-25576C	U	A	C	C	U	A	A
MIL-H-25598	U	A	B	B	C	A	A

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Chemical	EPR, EPT	Buna N, Nitrile	Neoprene®	Urethane	Silicone	Fluorosilicone	Fluoro Elastomers
	EPDM MCDE-80 -65° to 300°	NBR, MCDN-70 -65° to 225/300°	MCDC-70 -65° to 250/300°	Polyurethane MCDU-90 -40° to 200°	MCDS-70 -80° to 450°	MCDF-70 -100° to 350/400°	Viton® Fluorel® MCDV-75 -15° to 400/500°
MIL-F-25656B	U	A	U	C	U	B	A
MIL-L-25681C	A	B	B	C	U	B	A
MIL-G-25760A	U	B	C	B	U	B	A
MIL-L-25968	U	A	C	C	C	A	A
MIL-L-26087A	U	A	A	A	C	A	A
MIL-G-27343	A	A	A	A	U	A	A
MIL-P-27402	A	B	B	-	U	-	-
MIL-H-27601A	U	B	B	C	U	B	A
MIL-G-27617	A	U	-	-	U	A	A
MIL-I-27686D	A	A	B	C	B	B	B
MIL-L-27694A	A	A	A	A	U	A	A
MIL-L-46000A	U	A	C	C	C	A	A
MIL-H-46001A	U	A	A	A	C	A	A
MIL-L-46002	U	A	A	A	C	A	A
MIL-H-46004	U	A	B	B	C	A	A
MIL-P-46046A	A	B	B	C	U	B	A
MIL-H-81087	U	A	B	B	C	A	A
MIL-S-81087	A	A	A	A	U	B	A
MIL-H-83282	U	A	B	B	U	A	A
Milk	A	A	A	U	A	A	A
Mineral Oils	U	A	B	A	B	A	A
Mobil 24 DTE	U	A	B	B	U	A	A
Mobil HF	U	A	B	B	U	A	A
Mobil Delvac 1100, 1110, 1120, 1130	U	A	B	B	U	A	A
Mobil Nynac 20 and 30	A	A	A	A	A	A	A
Mobil Velocite C	U	A	B	B	U	A	A
Mobilgas WA200, type A, Automatic trans. Fluid	U	A	B	-	U	A	A
Mobil Oil SAE 20	U	A	B	A	U	A	A
Mobiltherm 600	U	A	B	B	U	A	A
Mobilux	U	A	B	B	U	A	A
Mono Bromobenzene	U	U	U	U	U	B	A
Mono Chlorobenzene	U	U	U	U	U	B	A
Mono Ethanolamine	B	U	U	U	B	U	U
Monomethyl Aniline	-	U	U	U	-	-	B
Monomethylether	A	A	A	-	-	-	-
Monomethyl Hydrazine	A	B	B	-	U	-	-
Monoitrotoluene & Dinitrotoluene (40/60 Mix.)	U	U	U	U	U	C	C
Monovinyl Acetylene	A	A	B	-	B	-	A
Mopar Brake Fluid	A	C	B	-	C	U	U
Mustard Gas	A	-	A	-	A	-	-
Naptha	U	C	U	C	U	B	A
Napthalene	U	U	U	B	U	A	A
Napthenic Acid	U	B	U		U	A	A
Natural Gas	U	A	A	B	A	C	A
Neatsfoot Oil	B	A	U	A	B	A	A
Neon	A	A	A	A	A	A	A
Neville Acid	B	U	U		U	B	A
Nickel Acetate	A	B	B	U	U	U	U
Nickel Chloride	A	A	B	C	A	A	A
Nickel Salts	A	A	B	C	A	A	A
Nickel Sulfate	A	A	A	C	A	A	A
Niter Cake	A	A	A	A	A	A	A
Nitric Acid (1) 3 Molar	B	U	U	U	U	C	A
Nitric Acid (1) Concentrated	U	U	U	U	U	U	A
Nitric Acid Dilute	B	U	A	C	B	B	A
Nitric Acid (1) Red Fuming (RFNA)	U	U	U	U	U	U	C
Nitric Acid (1) Inhibited Red Fuming (IRFNA)	U	U	U	U	U	U	B
Nitrobenzene	U	U	U	U	U	U	B
Nitrobenzine	C	-	U	-	-	A	A
Nitroethane	B	U	C	U	U	U	U

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McDowell Standard Compounds Fluid and
Material Compatibility Tables

Chemical	EPR, EPT	Buna N, Nitrile	Neoprene®	Urethane	Silicone	Fluorosilicone	Fluoro Elastomers
	EPDM MCDE-80 -65° to 300°	NBR, MCDN-70 -65° to 225/300°	MCDC-70 -65° to 250/300°	Polyurethane MCDU-90 -40° to 200°	MCDS-70 -80° to 450°	MCDF-70 -100° to 350/400°	Viton® Fluorel® MCDV-75 -15° to 400/500°
Nitrogen	A	A	A	A	A	A	A
Nitrogen Tetroxide (N4O4)(1)	U	U	U	U	U	U	U
Nitromethane	B	U	C	U	U	U	U
Nitropropane	B	U	U	U	U	U	U
O-A-548A	A	A	B	C	B	B	B
O-T-634B	U	C	U	U	U	B	A
Octachloro Toluene	U	U	U	U	U	B	A
Octadecane	U	A	B	A	U	A	A
N-Octane	U	B	U	U	U	B	A
Octyl Alcohol	A	B	B	U	B	B	A
Oleum (Fuming Sulfuric Acid)	U	U	U	U	U	-	A
Oleum Spirits	U	B	C	C	U	B	A
Olive Oil	B	A	B	A	U	A	A
Oronite 8200	U	B	A	A	U	A	A
Oronite 8515	U	B	A	A	U	A	A
Orthochloro Ethyl Benzene	U	U	U	U	U	B	A
Ortho-Dichlorobenzene	U	U	U	U	U	B	A
OS 45 Type III (oS45)	U	B	A	U	U	B	A
OS 45 Type IV (OS45-1)	U	B	A	U	U	B	A
OS 70	U	B	A	U	U	B	A
Oxalic Acid	A	B	B	-	B	A	A
Oxygen, Cold	A	B	A	A	A	A	A
Oxygen, Cold 200-400F	U	U	U	U	B	U	B
Ozone	A	U	C	A	A	B	A
P-S-661b	U	A	C	C	U	A	A
P-D-680	U	A	C	C	U	A	A
Paint Thinner, Duco	U	U	U	U	U	B	B
Palmitic Acid	B	A	B	A	U	A	A
Para-Dichlorobenzene	U	U	U	U	U	B	A
Par-al-Ketone	U	U	U	U	U	U	U
Parker O Lube	U	A	A	A	B	A	A
Peanut Oil	C	A	B	B	A	A	A
Pentane, 2 Methyl	U	A	B	U	U	C	A
Pentane, 2-4 Dimethyl	U	A	B	U	U	C	A
Pentane, Methyl	U	A	B	U	U	C	A
N-Pentane	U	A	A	U	U	C	A
Perchloric Acid	B	U	B	U	U	A	A
Perchloroethylene	U	C	U	U	U	B	A
Petroleum Oil, Crude	U	A	B	A	U	A	A
Petroleum Oil, Below 250F	U	A	B	B	B	B	A
Petroleum Oil, Above 250F	U	U	U	U	U	U	B
Phenol	B	U	U	U	U	B	A
Phenol, 70%/30% H2O	U	U	U	U	U	B	A
Phenol, 85%/15% H2O	U	U	U	U	U	B	A
Phenylbenzene	U	U	U	U	U	B	A
Phenyl Ethyl Ether	U	U	U	U	U	U	U
Phenyl Hydrazine	U	U	U	-	-	-	A
Phorone	B	U	U	U	U	U	U
Phosphoric Acid 20%	A	U	B	A	B	B	A
Phosphoric Acid 45%	B	U	B	A	U	B	A
Phosphoric Acid, 3 Molar	A	U	C	-	B	B	A
Phosphoric Acid, Concentrated	B	U	U	A	C	B	A
Phosphorous Trichloride	A	U	U	-	-	A	A
Pickling Solution	C	U	U	U	U	U	B
Picric Acid, H4O Solution	B	B	B	B	U	B	A
Picric Acid, Molten	B	B	B	-	U	B	A
Pirene	U	B	C	B	U	B	A
Pine Oil	U	B	U	-	U	A	A
Piperidine	U	U	U	U	U	U	U
Plating Solutions, Chrome	A	-	U	-	U	-	A

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Chemical	EPR, EPT EPDM MCDE-80 -65° to 300°	Buna N, Nitrile NBR, MCDN-70 -65° to 225/300°	Neoprene® MCDC-70 -65° to 250/300°	Urethane Polyurethane MCDU-90 -40° to 200°	Silicone MCDS-70 -80° to 450°	Fluorosilicone MCDF-70 -100° to 350/400°	Fluoro Elastomers Viton® Fluorel® MCDV-75 -15° to 400/500°
	Plating Solutions, Others	A	A	-	-	U	-
Pneumatic Service	A	A	A	A	U	U	A
Polyvinyl Acetate Emulsion	A	-	B	-	U	-	-
Potassium Acetate	A	B	B	U	U	U	U
Potassium Chloride	A	A	A	A	A	A	A
Potassium Cupro Cyanide	A	A	A	A	A	A	A
Potassium Cyanide	A	A	A	A	A	A	A
Potassium Dichromate	A	A	A	B	A	A	A
Potassium Hydroxide	A	B	B	B	C	C	B
Potassium Nitrate	A	A	A	A	A	A	A
Potassium Salts	A	A	A	A	A	A	A
Potassium Sulfate	A	A	A	A	A	A	A
Potassium Sulfite	A	A	A	A	A	A	A
Prestone Antifreeze	A	A	A	U	A	A	A
PRL-High Temp. Hydr. Oil	U	B	B	B	B	A	A
Producer Gas	U	A	B	A	B	B	A
Propane	U	A	B	C	U	B	A
Propane Propionitrile	U	A	B	U	U	C	A
Propyl Acetate	B	U	U	U	U	U	U
N-Propyl Acetone	A	U	U	U	U	U	U
Propyl Alcohol	A	A	A	U	A	A	A
Propyl Nitrite	B	U	U	-	U	U	U
Propylene	U	U	U	U	U	B	A
Propylene Oxide	B	U	U	U	U	U	U
Pyranol, Transformer Oil	U	A	B	B	U	A	A
Pyranol	U	A	U	B	U	A	A
Pydraul, 10E, 29 ELT	B	U	U	U	U	U	A
Pydraul, 30E, 50E, 65E, 90E	B	U	U	U	A	A	A
Pydraul, 115E	B	U	U	U	U	C	A
Pydraul, 230E, 312C, 540C	U	U	U	U	U	U	A
Pyridine Oil	B	U	U	-	U	U	U
Pyrogard 42, 43, 53, 55 (Phosphate Ester)	A	U	U	U	U	U	A
Pyrogard, C, D	U	A	B	U	B	B	A
Pyroligneous Acid	B	U	U	U	-	U	U
Pyrolube	B	U	U	U	B	B	A
Pyrrole	U	U	U	-	B	U	U
Radiation	C	C	C	C	C	U	U
Rapeseed Oil	A	B	B	B	U	A	A
Red Oil (MIL-H-5606)	U	A	B	B	U	A	A
Red Line 100 Oil	U	A	B	A	U	A	A
RJ-1 (MIL-F-25558)	U	A	B	B	U	A	A
RP 1 (MIL-R-25576)	U	A	B	B	U	A	A
Sal Ammoniac	A	A	A	A	B	A	A
Salicylic Acid	A	B	-	-	-	A	A
Salt Water	A	A	A	U	A	A	A
Santo Safe 300	C	U	U	-	A	A	A
Sewage	B	A	B	U	B	A	A
Shell Alvania Grease #2	U	A	B	A	B	A	A
Shell Carnea 19 and 29	U	A	U	B	-	A	A
Shell Diala	U	A	B	B	U	A	A
Shell Iris 905	U	A	B	A	U	A	A
Shell Iris 3XF Mine Fluid (Fire resist. Hydr)	U	A	B	U	-	A	A
Shell Iris Tellus #27, Pet. Base	U	A	B	A	U	A	A
Shell Iris Tellus #33	U	A	B	A	U	-	-
Shell Lo Hydrax 27 and 29	U	A	B	B	U	A	A
Shell Macoma 72	U	A	B	B	U	A	A
Sillicate Esters	U	B	A	A	U	A	A
Silicone Greases	A	A	A	A	C	A	A
Silicone Oils	A	A	A	A	C	A	A
Silver Nitrate	A	B	A	A	A	A	A

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Sinclair Oplaine CX-Ep Lube	U	A	B	A	U	A	A
Skelly, Solvent B, C, E	U	A	U	-	-	A	A
Skydrol 500	A	U	U	U	C	C	U
Skydrol 7000	A	U	U	U	C	C	B
Soap Solutions	A	A	A	A	A	A	A
Socony Mobile Type A	U	A	B	B	U	B	A
Socony Vacuum AMV AC781 (Grease)	U	A	B	B	U	B	A
Socony Vacuum PD959B	U	A	B	A	U	A	A
Soda Ash	A	A	A	-	A	A	A
Sodium Acetate	A	B	B	U	U	U	U
Sodium Bicarbonate (Baking Soda)	A	A	A	-	A	A	A
Sodium Bisulfite	A	A	A	-	A	A	A
Sodium Borate	A	A	A	-	A	A	A
Sodium Carbonate (Soda Ash)	A	A	A	-	A	A	A
Sodium Chloride	A	A	A	A	A	A	A
Sodium Cyanide	A	A	A	-	A	A	A
Sodium Hydroxide	A	B	B	B	B	B	B
Sodium Hypochlorite	B	B	B	U	B	B	A
Sodium Metaphosphate	A	A	B	-	-	A	A
Sodium Nitrate	A	B	B	-	U	-	-
Sodium Perborate	A	B	B	-	B	A	A
Sodium Peroxide	A	B	B	U	U	A	A
Sodium Phosphate (Mono)	A	A	A	A	U	-	A
Sodium Phosphate (Dibasic)	A	A	B	A	U	-	A
Sodium Phosphate (Tribasic)	A	A	B	A	A	-	A
Sodium Salts	A	A	B	A	A	A	A
Sodium Silicate	A	A	A	-	-	-	A
Sodium Sulphate	A	A	A	A	A	A	A
Sodium Sulphide	A	A	A	A	A	A	A
Sodium Sulfite	A	A	A	A	A	A	A
Sodium Thiosulfate	A	B	A	A	A	A	A
Sovasol #1, 2, and 3	U	A	B	B	U	A	A
Sovasol #73 and 74	U	B	B	B	U	A	A
Soybean Oil	C	A	C	B	A	A	A
Spry	B	A	B	A	A	A	A
SR-6 Fuel	U	B	U	B	U	A	A
SR-10 Fuel	U	A	U	B	U	A	A
Standard Oil Mobilube GX90 EP-Lube	U	A	B	A	U	A	A
Stannic Chloride	B	A	U	-	B	A	A
Stannic Chloride 50%	B	A	U	-	B	A	A
Stannous Chloride	A	A	A	-	B	A	A
Stauffer 700	U	B	U	-	U	B	A
Steam, Below 350°F	A	U	U	U	U	U	U
Steam, Above 350°F	C	U	U	U	U	U	U
Stearic Acid	B	B	B	A	B	-	-
Stoddard Solvent	U	A	C	A	U	A	A
Styrene	U	U	U	-	U	C	B
Styrene (Monomer)	U	U	U	-	U	C	B
Sucrose	A	A	B	U	A	A	A
Suflite Liquors	B	B	B	-	U	B	A
Sulfur	A	U	A	-	A	A	A
Sulfur Chloride	U	U	U	-	C	A	A
Sulfur Dioxide, Wet	A	U	B	-	B	B	A
Sulfur Dioxide, Dry	A	U	U	-	B	B	A
Sulfur Dioxide, Liquidified under pressure	A	U	U	-	B	B	U
Sulfur Hexafluoride	A	B	A	-	B	B	C
Sulfur Liquors	B	B	B	-	U	B	A
Sulfur Molten	C	U	C	U	C	C	A
Sulfur Trioxide	B	U	U	-	B	B	A
Sulfuric Acid Dilute	B	U	B	C	U	C	A

Legend:

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McDowell Standard Compounds Fluid and
Material Compatibility Tables

Chemical	EPR, EPT	Buna N, Nitrile	Neoprene®	Urethane	Silicone	Fluorosilicone	Fluoro Elastomers
	EPDM MCDE-80 -65° to 300°	NBR, MCDN-70 -65° to 225/300°	MCDC-70 -65° to 250/300°	Polyurethane MCDU-90 -40° to 200°	MCDS-70 -80° to 450°	MCDF-70 -100° to 350/400°	Viton® Fluorel® MCDV-75 -15° to 400/500°
Sulfuric Acid Concentrated	B	U	U	U	U	U	A
Sulfuric Acid 20% Oleum	U	U	U	U	U	U	A
Sulfuric Acid 3 Molar	B	U	C	C	U	C	A
Sulfurous Acid	B	B	B	U	U	-	A
Sunoco SAE 10	U	A	B	A	U	A	A
Sunoco #3661	U	A	B	A	U	A	A
Sunoco All purpose grease	U	A	B	A	U	A	A
Sunsaft (Fire resist. Hydr. Fluid)	U	A	B	U	-	A	A
Super Shell Gas	U	A	B	B	U	B	A
Swan Finch EP Lube	U	A	U	A	U	A	A
Swan Finch Hypoid-90	U	A	B	A	U	A	A
TT-N-95a	U	A	C	C	U	A	A
TT-N-97b	U	B	C	C	U	B	A
TT-I-735b	A	A	B	B	A	A	A
TT-S-735, Type I	U	A	B	B	U	A	A
TT-S-735, Type II	U	A	C	C	U	A	A
TT-S-735, Type III	U	A	C	C	U	A	A
TT-S-735, Type IV	U	A	A	A	C	A	A
TT-S-735, Type V	U	A	B	B	C	A	A
TT-S-735, Type VI	U	A	B	B	C	A	A
TT-T-656b	A	U	U	U	U	C	U
Tannic Acid	A	A	B	A	B	-	A
Tannic Acid, 10%	A	A	A	-	B	A	A
Tar Bituminous	U	B	C	-	B	A	A
Tartaric Acid	B	A	B	A	A	A	A
Tarpineol	C	B	U	B	-	A	A
Tertiary Butyl Alcohol	B	B	B	U	B	B	A
Tertiary Butyl Catechol	B	U	B	U	-	A	A
Tertiary Butyl Mercaptan	U	U	U	U	U	-	A
Tetrabromethane	U	U	U	-	U	B	A
Tetrabutyl Titanate	A	B	B	-	-	A	A
Tetrachlorethylene	U	U	U	U	-	B	A
Tetraethyl Lead	U	B	C	-	-	U	A
Tetraethyl Lead "Blend"	U	B	U	-	-	B	A
Tetrahydrofuran	B	U	U	-	-	-	A
Tetralin	U	U	U	-	U	A	A
Texaco 3450 Gear Oil	U	A	U	A	U	A	A
Texaco Capella A and AA	U	A	B	B	U	A	A
Texaco Meropa #3	U	A	B	B	U	A	A
Texaco Regal B	U	A	U	A	U	A	U
Texaco Uni-Temp. Grease	U	A	B	A	B	A	A
Texamatic "A" Transmission Oil	U	A	B	B	U	B	A
Texamatic 1581 Fluid	U	A	B	B	U	B	A
Texamatic 3401 Fluid	U	A	B	B	U	B	A
Thionyl Chloride	U	A	B	B	U	B	A
Texamatic 3528 Fluid	U	A	B	B	U	B	A
Texas 1500 Oil	U	A	B	A	B	A	A
Thiokol TP-90B	A	U	B	-	-	B	A
Thiokol TP-95	A	U	B	-	-	B	A
Thinoyl Chloride	U	-	U	-	-	-	A
Tidewater Oil-Beedol	U	A	B	A	B	A	A
Tidewater Oil-Multigear 140, EP Lube	U	A	B	A	U	A	A
Titanium Tetrachloride	U	C	U	U	U	B	A
Toluene	U	U	U	U	U	B	A
Toluene Dilsocyanide	B	U	U	-	U	U	U
Transformer Oil	U	A	B	A	B	A	A
Transmission Fluid Type A	U	A	B	A	B	A	A
Triacetin	A	B	B	U	-	U	U
Trairyl Phosphate	A	U	U	U	C	B	A
Tributoxyethyl Phosphate	A	U	U	U	-	B	A

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Chemical	EPR, EPT	Buna N, Nitrile	Neoprene®	Urethane	Silicone	Fluorosilicone	Fluoro Elastomers
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Tributyl Mercaptan	U	U	U	-	U	C	A
Tributyl Phosphate	A	U	U	U	-	U	U
Trichloroacetic Acid	B	B	U	U	-	U	C
Trichlorethane	U	U	U	U	U	B	A
Trichlorethylene	U	C	U	U	U	B	A
Tricresyl Phosphate	A	A	U	U	C	B	B
Triethanol Amine	B	C	A	U	-	U	U
Triethyl Aluminum	-	-	-	-	-	-	B
Triethyl Borane	-	-	-	-	-	-	A
Trifluoroethane	U	U	U	U	U	B	A
Trinitrotoluene	U	U	B	-	-	B	B
Trictyl Phosphate	A	U	U	U	C	B	B
Tripoly Phosphate	A	U	B	U	C	B	B
Tung Oil (China Wood Oil)	U	A	B	C	U	B	A
Trubine Oil	U	B	U	A	U	B	A
Turbine Oil #15 (MIL-L-7808A)	U	B	U	U	U	B	A
Turbo Oil #35	U	A	B	A	U	A	A
Turpentine	U	A	U	U	U	B	A
Type I Fuel (MIL-S-3136)	U	A	B	B	U	A	A
Type II Fuel (MIL-S-3136)	U	B	U	B	U	B	A
Type III Fuel (MIL-S-3136)	U	A	U	B	U	A	A
Ucon Hydrolube J-4	A	A	B	U	A	B	A
Ucon Lubricant LB-65	A	A	A	U	A	A	A
Ucon Lubricant LB-135	A	A	A	-	A	A	A
Ucon Lubricant LB-285	A	A	A	-	A	A	A
Ucon Lubricant LB-300	A	A	A	-	A	A	A
Ucon Lubricant LB-615	A	A	A	-	A	A	A
Ucon Lubricant LB-1145	A	A	A	-	A	A	A
Ucon Lubricant 50-HB55	A	A	A	-	A	A	A
Ucon Lubricant 50-HB100	A	A	A	-	A	A	A
Ucon Lubricant 50-HB260	A	A	A	-	A	A	A
Ucon Lubricant 50-HB660	A	A	A	-	A	A	A
Ucon Lubricant 50-HB5100	A	A	A	-	A	A	A
Ucon Oil LB-385	A	A	A	-	A	A	A
Ucon Oil LB-400X	A	A	A	-	A	A	A
Ucon Oil 50-HB-280X (Polyacrylon Glycol Deriv.)	A	A	A	-	A	A	A
Univis 40 (Hydr. Fluid)	U	A	B	A	U	A	A
Univolt #35 (Mineral Oil)	U	A	B	A	U	A	A
Unsymmetrical Dimethyl Hydrazine (UDMH)	A	B	B	-	U	U	U
VV-B-680	A	B	B	C	U	B	A
VV-G-632	U	A	A	A	C	A	A
VV-G-671c	U	A	A	A	C	A	A
VV-H-910	A	C	B	U	U	B	A
VV-I-530a	U	A	B	B	C	A	A
VV-K-211d	U	A	C	C	U	A	A
VV-K-220a	U	A	B	B	U	A	A
VV-L-751b	U	B	B	C	U	A	A
VV-L-800	U	A	B	B	C	A	A
VV-L-820b	U	A	B	B	C	A	A
VV-L-825a, Type I	U	A	A	A	C	A	A
VV-L-825a, Type II	U	A	A	A	C	A	A
VV-L-825, Type III	U	B	B	C	U	A	A
VV-O-526	U	A	A	A	C	A	A
VV-P-216a	U	A	B	B	C	A	A
VV-P-236	U	B	B	C	U	A	A
Varnish	U	B	U	C	U	B	A
Vegetable Oil	C	A	C	-	A	A	A
Versilube	A	A	A	A	C	A	A
Vinegar	A	B	B	U	A	C	A
Vinyl Chloride	B	-	U	-	-	-	A

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Wagner 21B Brake Fluid	A	C	B	-	C	U	U
Water	A	A	A	A	A	A	A
Welmco C	U	A	B	A	U	A	A
Whiskey and Wines	A	A	A	U	A	A	A
White Pine Oil	U	B	U	-	U	A	A
White Oil	U	A	B	A	U	A	A
Wolmar Salt	A	A	B	A	A	A	A
Wood Alcohol	A	A	A	U	A	A	U
Wood Oil	U	A	B	C	U	B	A
Xylene	U	U	U	U	U	A	A
Xylidenes-Mixed-Aromatic Amines	U	C	U	U	U	U	U
Xylol	U	U	U	U	U	A	A
Xenon	A	A	A	A	A	A	A
Zeolites	A	A	A	-	-	A	A
Zinc Acetate	<u>A</u>	<u>B</u>	<u>B</u>	<u>U</u>	<u>U</u>	<u>U</u>	<u>U</u>
Zinc Chloride	A	A	A	-	-	A	A
Zinc Salts	A	A	A	A	A	A	A
Zinc Sulfate	A	A	A	-	A	A	A

