



FLUID COMPATIBILITY CHART

COMPATIBILITY RATING:

1 = Satisfactory
2 = Fair (Usually OK for Static Seal)
3 = Doubtful (Sometimes OK for Static Seal)
4 = Unsatisfactory
X = Insufficient Data

FLUID NAME	MATERIAL													
	Nitrile	Ethylene Propylene	Fluorocarbon	Neoprene	SBF	Polyacrylate	Polyurethane	Butyl	Butadiene	Isoprene	Natural Rubber	Hypalon	Fluorosilicone	Silicone
1-Butene 2-Ethyl	1	4	1	4	4	1	4	4	4	4	4	4	3	4
1-Chloro 1-Nitro Ethane	4	4	4	4	4	4	4	4	4	4	4	4	4	4
AN-O-3 Grade M	1	4	1	2	4	1	1	4	4	4	4	2	1	2
AN-O-6	1	4	1	2	4	1	1	4	4	4	4	2	1	4
AN-VV-O-366b Hydr. Fluid	1	4	1	2	4	2	2	4	4	4	4	2	1	4
ASTM Oil, No.1	1	4	1	1	4	1	1	4	4	4	4	2	1	1
ASTM Oil, No.2	1	4	1	2	4	1	2	4	4	4	4	4	1	4
ASTM Oil, No.3	1	4	1	4	4	1	2	4	4	4	4	4	1	3
ASTM Oil, No.4	2	4	1	4	4	2	4	4	4	4	4	4	2	4
ASTM Reference Fuel A	1	4	1	2	4	2	1	4	4	4	4	2	1	4
ASTM Reference Fuel B	1	4	1	4	4	4	2	4	4	4	4	4	1	4
ASTM Reference Fuel C	2	4	1	4	4	4	4	4	4	4	4	4	2	4
ATL-857	2	4	1	4	4	2	4	4	4	4	4	4	2	4
Acetaldehyde	3	2	4	3	3	4	4	2	2	2	2	3	4	2
Acetamide	1	1	3	1	4	4	4	2	4	4	4	2	1	2
Acetic Acid, 5%	2	1	1	1	2	4	4	1	2	2	2	1	2	1
Acetic Acid, Glacial	2	2	4	4	2	4	4	2	2	2	2	3	4	2
Acetic Acid, Hot, High Pressure	4	3	4	4	4	4	4	4	4	4	4	3	4	3
Acetic Anhydride	4	2	4	2	2	4	4	2	2	2	2	2	4	2
Acetone	4	1	4	4	4	4	4	1	4	4	4	3	4	4
Acetophenone	4	1	4	4	4	4	4	2	4	4	4	4	4	4
Acetyl Acetone	4	1	4	4	4	4	4	1	4	4	4	4	4	4
Acetyl Chloride	4	4	1	4	4	4	4	4	4	4	4	4	1	3
Acetylene	1	1	1	2	2	4	4	1	2	2	2	2	X	2
Acetylene Tetrabromide	4	1	1	2	4	X	4	1	X	X	X	X	X	X
Acrylonitrile	4	4	3	4	3	4	4	4	X	3	3	3	4	4
Aero Lubriplate	1	4	1	1	2	1	1	4	4	4	4	1	1	2
Aero Shell 17 Grease	1	4	1	2	4	1	1	4	4	4	4	1	1	2
Aero Shell 750	2	4	1	4	4	2	4	4	4	4	4	4	2	4
Aero Shell 7A Grease	2	4	1	2	4	1	1	4	4	4	4	1	1	2
Aero Shell IAC	1	4	1	2	4	1	1	4	4	4	4	1	1	2
Aerosafe 2300	4	1	4	4	4	4	4	2	4	4	4	4	3	3
Aerosafe 2300W	4	1	4	4	4	4	4	2	4	4	4	4	3	3
Aerozene 50 (50% Hydrazine 50% UDMH)	3	1	4	4	4	X	4	1	4	4	4	4	4	4
Air Below 200° F	2	1	1	1	2	1	2	1	2	2	2	1	1	1
Air, 200 - 300° F	3	2	1	2	4	2	3	2	4	4	4	2	1	1
Air, 300 - 400° F	4	4	1	4	4	4	4	4	4	4	4	4	2	1
Air, 400 - 500° F	4	4	3	4	4	4	4	4	4	4	4	4	4	2
Alkazene	4	4	2	4	4	4	4	4	4	4	4	4	2	4
Aluminum Acetate	2	1	4	2	2	4	4	1	4	1	1	4	4	4
Aluminum Bromide	1	1	1	1	1	1	3	1	1	1	1	1	1	1
Aluminum Chloride	1	1	1	1	1	1	3	1	1	1	1	1	1	2
Aluminum Fluoride	1	1	1	1	1	X	3	1	1	1	2	1	1	2
Aluminum Nitrate	1	1	1	1	1	X	3	1	1	1	1	1	X	2
Aluminum Salts	1	1	1	1	1	1	3	1	1	1	1	1	1	1
Aluminum Sulphate	1	1	1	1	2	4	4	1	1	1	1	1	1	1
Alums-NH3 -Cr -K	1	1	4	1	1	4	X	1	1	1	1	1	4	1
Ambrex 33 (Mobil)	1	4	1	2	4	1	2	4	4	4	4	3	3	4
Ambrex 830 (Mobil)	1	3	1	2	4	1	1	3	4	4	4	2	1	2
Amines-Mixed	4	2	4	2	2	4	4	2	2	2	2	4	4	2
Ammonia and Lithium Metal in Solution	2	2	4	X	4	4	4	2	4	4	4	4	4	4
Ammonia, Gas, Cold	1	1	4	1	1	4	X	1	1	1	1	1	4	1
Ammonia, Gas, Hot	4	2	4	2	4	4	X	2	4	4	4	2	4	X
Ammonia, Liquid (Anhydrous)	2	1	4	1	4	4	4	1	4	4	4	2	4	2
Ammonium Carbonate	4	1	1	1	1	4	4	1	X	X	1	1	X	X
Ammonium Chloride, 2N	1	1	1	1	1	X	1	1	X	X	1	1	X	X
Ammonium Hydroxide, 3 Molar	1	1	3	1	2	4	4	1	2	2	2	1	1	1
Ammonium Hydroxide, Concentrated	4	1	4	1	3	4	4	1	3	3	3	1	1	1
Ammonium Nitrate, 2N	1	1	X	1	1	2	X	1	X	X	3	1	X	X
Ammonium Nitrite	1	1	X	1	1	X	X	1	1	1	1	1	X	2
Ammonium Persulfate 10%	4	1	X	1	4	4	4	1	X	1	1	X	X	X
Ammonium Persulfate Solution	4	1	X	X	4	4	4	1	X	1	1	X	X	X

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FLUID NAME

MATERIAL
 Nitrile Ethylene Propylene
 Fluorocarbon Neoprene
 SBR Polyacrylate
 Polyurethane Butyl
 Butadiene Isoprene
 Natural Rubber Hypalon
 Fluorosilicone Silicone

Ammonium Phosphate	1	1	4	1	1	X	X	1	X	1	1	1	X	1
Ammonium Phosphate, Dibasic	1	1	X	1	1	X	X	1	X	1	1	1	X	1
Ammonium Phosphate, Mono-Basic	1	1	X	1	1	X	X	1	X	1	1	1	X	1
Ammonium Phosphate, Tribasic	1	1	X	1	1	X	X	1	X	1	1	1	X	1
Ammonium Salts	1	1	3	1	1	3	X	1	X	1	1	1	3	1
Ammonium Sulfate	1	1	4	1	2	4	X	1	1	1	1	1	X	X
Ammonium Sulfide	1	1	4	1	2	4	X	1	1	1	1	1	X	X
Amyl Acetate	4	3	4	4	4	4	4	3	4	4	4	4	4	4
Amyl Alcohol	2	1	2	2	2	4	4	1	2	2	2	2	1	4
Amyl Borate	1	4	1	1	4	X	X	4	4	4	4	1	X	X
Amyl Chloride	X	4	1	4	4	4	X	4	4	4	4	4	2	4
Amyl Chloronaphthalene	4	4	1	4	4	4	X	4	4	4	4	4	2	4
Amyl Naphthalene	4	4	1	4	4	2	4	4	4	4	4	4	1	4
An-O-366	1	4	1	2	4	1	1	4	4	4	4	2	1	4
Anderol, L- 826 (di-ester)	2	4	1	4	4	2	4	4	4	4	4	4	2	4
Anderol, L- 829 (di-ester)	2	4	1	4	4	2	4	4	4	4	4	4	2	4
Anderol, L-774 (di-ester)	2	4	1	4	4	2	4	4	4	4	4	4	2	4
Ang-25 (Di-ester Base) (TG749)	2	4	1	4	4	2	4	4	4	4	4	4	2	2
Ang-25 (Glyceral Ester)	2	1	1	2	2	4	4	2	2	2	2	2	2	2
Anhydrous Ammonia	2	1	4	1	4	4	4	1	4	4	4	4	4	2
Anhydrous Hydrazine	4	2	4	2	1	4	4	2	4	4	4	2	4	X
Anhydrous Hydrogen Fluoride	4	1	4	X	4	4	X	1	4	4	4	X	4	X
Aniline	4	2	3	4	4	4	4	2	4	4	4	4	3	4
Aniline Dyes	4	2	2	2	2	4	4	2	2	2	2	2	2	3
Aniline Hydrochloride	2	2	2	4	3	4	4	2	4	2	2	4	2	3
Aniline Oil	4	2	3	4	4	4	4	2	4	4	4	4	3	4
Animal Oil (Lard Oil)	1	2	1	2	4	1	2	2	4	4	4	2	1	2
Ansul Ether 161 or 181	3	3	4	4	4	4	2	3	4	4	4	4	3	4
Argon	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Aroclor, 1248	3	2	1	4	4	4	4	2	4	4	4	4	2	2
Aroclor, 1254	4	2	1	4	4	4	4	4	4	4	4	4	2	3
Aroclor, 1260	1	X	1	1	1	4	4	1	1	1	1	1	1	1
Aromatic Fuel -50%	2	4	1	4	4	4	4	4	4	4	4	4	2	4
Arsenic Acid	1	1	1	1	1	3	3	1	1	1	2	1	1	1
Askarel	2	4	1	4	4	4	4	4	4	4	4	4	2	4
Asphalt	2	4	1	2	4	2	2	4	4	4	4	2	2	4
Atlantic Dominion F	1	4	1	2	4	1	2	4	4	4	4	4	1	4
Atlantic Utro Gear-EP Lube.	1	4	1	2	4	1	1	4	4	4	4	4	1	4
Aure 903R (Mobil)	1	4	1	2	4	1	1	4	4	4	2	4	4	4
Automatic Transmission Fluid	1	4	1	2	4	1	2	4	4	4	4	3	X	4
Automotive Brake Fluid	3	1	4	2	1	4	4	2	X	X	X	2	4	3
Bardol B	4	4	1	4	4	4	4	4	4	4	4	4	2	4
Barium Chloride	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Barium Hydroxide	1	1	1	1	1	4	4	1	1	1	1	1	1	1
Barium Salts	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Barium Sulfide	1	1	1	1	2	4	1	1	2	1	1	1	1	1
Bayol 35	1	4	1	2	4	1	2	4	4	4	4	4	1	4
Bayol D	1	4	1	2	4	1	4	4	4	4	4	4	1	4
Beer	1	1	1	1	1	4	2	1	1	1	1	1	1	1
Beet Sugar Liquors	1	1	1	2	1	4	4	1	1	1	1	1	1	1
Benzaldehyde	4	1	4	4	4	4	4	1	4	4	4	1	4	2
Benzene	4	4	1	4	4	4	4	4	4	4	4	4	3	4
Benzenesulfonic Acid 10%	4	4	1	2	4	4	4	4	4	4	4	1	2	4
Benzochloride	4	1	1	4	4	4	X	2	4	4	4	4	1	X
Benzoic Acid	4	4	1	4	4	4	4	4	4	4	4	4	2	4
Benzophenone	X	2	1	X	4	4	4	2	4	4	X	X	1	X
Benzyl Alcohol	4	2	1	2	4	4	4	2	4	4	4	2	2	2
Benzyl Benzoate	4	4	1	4	4	4	4	2	4	4	4	4	1	4
Benzyl Chloride	4	4	1	4	4	4	4	4	4	4	4	4	1	4
Black Point 77	1	1	1	3	3	3	3	1	3	3	3	3	3	3
Blast Furnace Gas	4	4	1	4	4	4	4	4	4	4	4	4	2	1
Bleach Liquor	3	1	1	2	3	4	4	1	2	2	3	1	2	2



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FLUID NAME	Nitrile	Ethylene Propylene	Fluorocarbon	Neoprene	SBR	Polyacrylate	Polyurethane	Butyl	Butadiene	Isoprene	Natural Rubber	Hypalon	Fluorosilicone	Silicone
Borax	2	1	1	4	2	2	1	1	2	2	2	4	2	2
Bordeaux Mixture	2	1	1	2	2	4	4	1	2	2	2	1	2	2
Boric Acid	1	1	1	1	1	4	1	1	1	1	1	1	1	1
Boron Fluids (HEF)	2	4	1	4	4	4	4	4	4	4	4	4	2	4
Brake Fluid DOT3 (Glycol Type)	3	1	4	2	1	X	4	2	X	X	X	2	4	3
Bray GG-130	2	4	1	4	4	2	4	4	4	4	4	4	2	4
Brayco 719-R (VV-H-910)	3	1	4	2	X	4	4	2	2	2	2	2	2	2
Brayco 885 (MIL-L-6085A)	2	4	1	4	4	2	1	4	4	4	4	4	2	4
Brayco 910	2	1	4	2	2	3	3	1	1	1	1	1	4	4
Bret 710	2	1	4	2	2	3	3	1	1	1	1	1	4	4
Brom - 113	3	4	X	4	4	X	X	4	X	X	X	4	X	4
Brom - 114	2	4	2	2	4	X	X	4	4	4	4	2	X	4
Bromine	4	4	1	4	4	4	4	4	4	4	4	4	2	4
Bromine Pentafluoride	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Bromine Trifluoride	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Bromine Water	4	2	1	4	4	4	4	4	4	4	4	1	2	4
Bromobenzene	4	4	1	4	4	4	4	4	4	4	4	4	1	4
Bromochloro Trifluoroethane	4	4	1	4	4	4	4	4	4	4	4	4	2	4
Bunker Oil	1	4	1	4	4	1	2	4	4	4	4	4	1	2
Butadiene (Monomer)	4	4	1	4	4	4	4	4	4	4	4	4	1	4
Butane	1	4	1	1	3	1	1	4	4	4	4	2	3	4
Butane, 2, 2-Dimethyl	1	4	1	2	3	1	4	4	4	4	4	2	3	4
Butane, 2, 3-Dimethyl	1	4	1	2	3	1	4	4	4	4	4	2	3	4
Butanol (Butyl Alcohol)	1	2	1	1	1	4	4	2	1	1	1	1	1	2
Butter-Animal Fat	1	1	1	2	4	1	1	2	4	4	4	2	1	2
Butyl Acetyl Ricinoleate	2	1	1	2	4	X	4	1	4	4	4	2	2	X
Butyl Acrylate	4	4	4	4	4	4	X	4	4	4	4	4	4	X
Butyl Alcohol	1	2	1	1	1	4	4	2	1	1	1	1	1	2
Butyl Amine or N-Butyl Amine	3	3	4	4	4	4	4	4	4	4	4	4	4	4
Butyl Carbitol	4	1	3	3	4	4	X	1	4	4	4	2	4	4
Butyl Cellosolve	3	2	4	3	4	4	4	2	4	4	4	4	4	X
Butyl Cellosolve Adipate	4	2	2	4	4	4	4	2	4	4	4	4	2	2
Butyl Oleate	4	2	1	4	4	X	X	2	4	X	4	4	2	X
Butyl Stearate	2	4	1	4	4	X	X	4	4	4	4	4	2	X
Butylene	2	4	1	3	4	4	4	4	4	4	4	4	2	4
Butyraldehyde	4	2	4	4	4	4	4	2	4	4	4	4	4	4
Butyric Acid	4	2	2	4	4	4	X	2	4	X	X	4	X	X
Calcine Liquors	1	1	1	X	X	4	4	1	X	X	X	X	1	X
Calcium Acetate	2	1	4	2	4	4	4	1	4	1	1	2	4	4
Calcium Bisulfite	2	1	2	2	2	3	3	1	4	4	4	1	3	3
Calcium Carbonate	1	1	1	1	1	3	3	1	1	1	1	1	1	1
Calcium Chloride	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Calcium Cyanide	1	1	X	1	1	X	X	1	1	1	1	1	X	1
Calcium Hydroxide	1	1	1	1	1	4	2	1	1	1	1	1	1	1
Calcium Hypochlorite	2	1	1	2	2	4	4	1	2	2	2	1	2	2
Calcium Nitrate	1	1	1	1	1	1	1	1	1	1	1	1	1	2
Calcium Phosphate	1	1	1	2	1	1	1	1	1	1	1	1	X	1
Calcium Salts	1	1	1	1	1	1	1	1	1	1	1	1	1	2
Calcium Silicate	1	1	1	1	1	X	X	1	1	1	1	1	X	X
Calcium Sulfide	1	1	1	1	2	4	1	1	2	2	2	1	1	1
Calcium Sulfite	1	1	1	1	2	4	1	1	2	2	2	1	1	1
Calcium Thiosulfate	2	1	1	1	2	4	1	1	2	2	2	1	1	1
Caliche Liquors	1	1	1	1	1	1	1	1	1	1	1	1	1	2
Cane Sugar Liquors	1	1	1	1	1	4	4	1	1	1	1	1	1	1
Caproic Aldehyde	X	2	4	X	X	4	4	2	2	2	2	X	4	2
Carbamate	3	2	1	2	4	4	4	2	4	4	4	2	1	X
Carbitol	2	2	2	2	2	4	4	2	2	2	2	2	2	2
Carbolic Acid Phenol	4	2	1	4	4	4	3	2	4	4	4	4	1	4
Carbon Bisulfide	4	4	1	4	4	3	X	4	4	4	4	4	1	4
Carbon Dioxide	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Carbon Dioxide (Explosive Decompression Use)	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Carbon Disulfide	4	4	1	4	4	3	X	4	4	4	4	4	1	4



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Fisher Reagent	X	2	X	X	X	X	X	X	X	X	X	X	X	X	X
Fluorolube	1	1	2	1	4	X	X	1	X	X	X	1	2	1	
Formaldehyde	3	2	4	3	3	4	4	2	2	2	2	2	4	2	
Freon, 11	4	4	2	4	4	4	X	4	X	X	4	1	2	4	
Freon, 112	2	4	1	2	4	X	X	4	X	X	4	2	X	4	
Freon, 113	1	4	2	1	2	X	1	4	X	X	4	1	X	4	
Freon, 114	1	1	1	1	1	X	X	1	X	X	1	X	X	4	
Freon, 114B2	2	4	2	2	4	X	X	4	X	X	4	1	X	4	
Freon, 115, 116	1	1	2	1	1	X	X	1	X	X	1	X	X	X	
Freon, 12	2	3	3	1	1	X	1	3	4	4	2	1	3	4	
Freon, 12 and ASTM Oil #2 (50/50 Mixture)	2	4	1	3	4	X	X	4	4	4	4	2	2	4	
Freon, 12 and Suniso 4G (50/50 Mixture)	2	4	1	3	4	X	X	4	4	4	4	2	2	4	
Freon, 13	1	1	1	1	1	X	X	1	X	1	1	1	4	4	
Freon, 13B1	1	1	1	1	1	X	X	1	X	X	1	1	2	4	
Freon, 14	1	1	1	1	1	X	1	1	X	X	1	1	X	4	
Freon, 21	4	4	4	3	4	X	X	4	4	4	4	4	X	4	
Freon, 22	4	3	4	1	1	2	4	3	X	X	1	1	4	4	
Freon, 22 and ASTM Oil #2 (50/50 Mixture)	4	4	2	2	4	2	X	4	X	X	4	X	2	4	
Freon, 31	4	1	4	1	2	X	X	1	X	X	2	2	X	X	
Freon, 32	1	1	4	1	1	X	X	1	X	X	1	1	X	X	
Freon, 502	2	1	2	1	1	X	X	1	X	X	1	X	X	X	
Freon, BF	2	4	1	2	4	X	X	4	X	X	4	2	X	4	
Freon, C318	1	1	2	1	1	X	X	1	X	X	1	1	X	X	
Freon, K-142b	1	1	4	1	1	X	X	1	X	X	2	1	X	X	
Freon, K-152a	1	1	4	1	1	X	X	1	X	X	1	4	X	X	
Freon, MF	2	4	2	4	4	X	3	4	X	X	4	1	X	4	
Freon, PCA	1	4	2	1	2	X	1	4	X	X	4	1	X	4	
Freon, TF	1	4	2	1	2	X	1	4	X	X	4	1	X	4	
Fuel Oil, #6	2	4	1	4	4	1	2	4	4	4	4	4	1	1	
Fuel Oil, 1, and 2	1	4	1	2	4	1	2	4	4	4	4	3	1	4	
Fuel Oil, Acidic	1	4	1	2	4	1	2	4	4	4	4	4	1	1	
Fumaric Acid	1	2	1	2	2	4	X	4	2	1	3	2	1	2	
Fuming Sulphuric Acid (20/25% Oleum)	4	4	1	4	4	4	4	4	4	4	4	4	X	4	
Furan (Furfuran)	4	3	X	4	4	4	X	4	4	4	4	4	X	X	
Furfural	4	2	4	4	4	4	3	2	4	4	4	3	X	4	
Furfuraldehyde	4	2	4	4	4	4	X	2	4	4	4	4	X	4	
Furfuryl Alcohol	4	2	X	4	4	4	4	2	4	4	4	4	4	4	
Furyl Carbinol	4	2	X	4	4	4	4	2	4	4	4	4	4	4	
Fyrquel 150 220 300 550	4	1	1	4	4	4	4	1	4	4	4	4	2	1	
Gallic Acid	2	2	1	2	2	4	4	2	X	1	1	2	1	X	
Gasoline	1	4	1	4	4	4	2	4	4	4	4	4	1	4	
Gelatin	1	1	1	1	1	4	4	1	1	1	1	1	1	1	
Girling Brake Fluid	3	1	4	2	1	X	X	2	X	X	X	2	4	X	
Glacial Acetic Acid	2	2	4	4	2	4	4	2	2	2	2	4	4	2	
Glauber's Salt	4	2	1	2	4	4	X	2	4	2	2	2	1	X	
Glucose	1	1	1	1	1	X	4	1	1	1	1	1	1	1	
Glycerine - Glycerol	1	1	1	1	1	4	4	1	1	1	1	1	1	1	
Glycols	1	1	1	1	1	4	4	1	1	1	1	1	1	1	
Grease Petroleum Base	1	4	1	3	4	1	1	4	4	4	4	4	1	4	
Green Sulphate Liquor	2	1	1	2	2	4	4	1	2	2	2	2	2	X	
Gulf Endurance Oils	1	4	1	2	4	1	1	4	4	4	4	4	1	4	
Gulf FR Fluids (Emulsion)	1	4	1	2	4	1	1	4	4	4	4	4	1	4	
Gulf FR G-Fluids	1	1	1	1	1	4	2	1	1	1	1	1	1	1	
Gulf FR P-Fluids	4	2	2	4	4	4	4	2	4	4	4	4	2	1	
Gulf Harmony Oils	1	4	1	2	4	1	1	4	4	4	4	4	1	4	
Gulf High Temperature Grease	1	4	1	2	4	1	1	4	4	4	4	4	1	4	
Gulf Legion Oils	1	4	1	2	4	1	1	4	4	4	4	4	1	4	
Gulf Paramount Oils	1	4	1	2	4	1	2	4	4	4	4	4	1	4	
Gulf Security Oils	1	4	1	2	4	1	2	4	4	4	4	4	1	4	
Gulfcrown Grease	1	4	1	2	4	1	1	4	4	4	4	4	1	4	
HEF-2 (High Energy Fuel)	2	4	1	4	4	4	4	4	4	4	4	4	2	4	
Halothane	4	4	1	4	4	4	4	4	4	4	4	4	2	4	

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FLUID NAME	MATERIAL													
	Nitrile	Ethylene Propylene	Fluorocarbon	Neoprene	SBR	Polyacrylate	Polyurethane	Butyl	Butadiene	Isoprene	Natural Rubber	Hypalon	Fluorosilicone	Silicone
Halowax Oil	4	4	1	4	4	X	X	4	4	4	4	4	1	4
Hannifin Lube A	1	4	1	1	2	1	1	4	4	4	4	1	1	2
Heavy Water	1	1	X	2	1	4	4	1	1	1	1	1	1	1
Helium	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Hexyl Alcohol	1	3	1	2	1	4	4	3	1	1	1	2	2	2
HiLo MS #1	4	1	4	4	4	4	4	2	4	4	4	4	3	3
High Viscosity Lubricant, H2	1	1	1	2	1	4	4	1	2	X	X	X	2	1
High Viscosity Lubricant, U4	1	1	1	2	1	4	4	1	2	X	X	X	2	1
Houghto-Safe 1010 phosphate ester	4	1	1	4	4	4	X	1	4	4	4	4	2	3
Houghto-Safe 1055 phosphate ester	4	1	1	4	4	4	X	1	4	4	4	4	2	3
Houghto-Safe 1120 phosphate ester	4	2	1	4	4	4	4	1	4	4	4	4	2	3
Houghto-Safe 271 (Water & Glycol Base)	1	1	2	2	1	4	4	2	X	X	X	X	2	2
Houghto-Safe 416 & 500 Series	1	1	X	X	X	X	X	X	X	X	X	X	X	X
Houghto-Safe 5040 (Water/Oil emulsion)	1	4	1	2	4	4	4	4	4	4	4	4	2	3
Houghto-Safe 620 Water/Glycol	1	1	2	2	1	4	4	2	X	X	X	X	2	2
Hydraulic Oil, Petroleum Base, Industrial	1	4	1	2	4	1	1	4	4	4	4	2	1	2
Hydrazine	2	1	4	2	2	X	4	1	X	X	1	2	4	2
Hydro-Drive MIH-10 (Petroleum Base)	1	4	1	2	4	1	2	4	4	4	4	4	1	2
Hydro-Drive MIH-50 (Petroleum Base)	1	4	1	2	4	1	2	4	4	4	4	4	1	2
Hydrobromic Acid	4	1	1	4	4	4	4	1	4	1	1	1	3	4
Hydrobromic Acid 40%	4	1	1	2	4	4	4	1	4	1	1	1	3	4
Hydrocarbons, Saturated	1	4	1	2	4	1	2	4	4	4	4	3	1	4
Hydrochloric Acid, 3 Molar to 158°F	2	1	1	2	3	3	4	1	X	X	3	1	3	4
Hydrochloric Acid, Concentrated Room Temp.	2	2	1	X	X	X	X	X	X	X	X	X	X	X
Hydrochloric Acid, Concentrated to 158°F	4	4	4	4	4	4	4	4	X	X	4	X	4	4
Hydrocyanic Acid	2	1	1	2	2	4	X	1	2	1	1	1	2	3
Hydrofluosilicic Acid	2	1	1	2	2	X	X	1	X	1	1	1	4	4
Hydrogen Gas, Cold	1	1	1	1	2	2	1	1	1	1	2	1	3	3
Hydrogen Gas, Hot	1	1	1	1	2	2	1	1	1	1	2	1	3	3
Hydrogen Peroxide	2	1	1	1	2	4	X	1	2	2	2	2	1	1
Hydrogen Peroxide 90%	4	3	1	4	4	4	X	3	4	4	4	3	2	2
Hydrogen Sulfide Dry Cold	1	1	4	1	1	4	X	1	1	1	1	1	3	3
Hydrogen Sulfide Dry Hot	4	1	4	2	4	4	X	1	4	4	4	3	3	3
Hydrogen Sulfide Wet Cold	4	1	4	1	4	4	X	1	4	4	4	2	3	3
Hydrogen Sulfide Wet Hot	4	1	4	2	4	4	X	1	4	4	4	3	3	3
Hydrolube-Water/Ethylene Glycol	1	1	1	2	1	4	4	2	X	X	X	X	2	2
Hydroquinone	3	2	2	4	4	4	X	4	4	2	2	4	2	X
Hydne	2	1	4	2	2	4	X	2	2	2	2	X	4	4
Hyjet IV and IVA	4	1	4	4	4	4	4	2	4	4	4	4	4	4
Hypochlorous Acid	4	2	1	4	4	4	X	2	4	2	2	1	X	X
Industron FF44	1	4	1	2	4	1	2	4	4	4	4	4	1	4
Industron FF48	1	4	1	2	4	1	2	4	4	4	4	4	1	4
Industron FF53	1	4	1	2	4	1	2	4	4	4	4	4	1	4
Industron FF80	1	4	1	2	4	1	2	4	4	4	4	4	1	4
Iodine	2	2	1	4	2	X	X	2	X	4	X	2	1	X
Iodine Pentafluoride	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Iso Octane	1	4	1	2	4	1	2	4	4	4	4	1	1	4
Iso-Butyl N-Butyrate	4	1	1	4	4	4	X	1	4	4	4	4	1	X
Isobutyl Alcohol	2	1	1	1	2	4	4	1	2	1	1	1	2	1
Isododecane	1	4	1	2	4	4	X	4	4	4	4	2	1	4
Isophorone (Ketone)	4	2	4	4	4	4	4	2	4	4	4	4	4	4
Isopropanol	2	1	1	2	2	4	4	1	2	1	1	1	2	1
Isopropyl Acetate	4	2	4	4	4	4	4	2	4	4	4	4	2	4
Isopropyl Alcohol	2	1	1	2	2	4	4	1	2	1	1	1	2	1
Isopropyl Chloride	4	4	1	4	4	4	4	4	4	4	4	4	2	4
Isopropyl Ether	2	4	4	3	4	3	2	4	4	4	4	3	3	4
JP-10	3	4	1	4	4	4	3	4	X	X	4	X	1	4
JP-4 (MIL-T-5624)	1	4	1	4	4	2	2	4	4	4	4	4	2	4
JP-5 (MIL-T-5624)	1	4	1	4	4	2	2	4	4	4	4	4	2	4
JP-6 (MIL-J-25656)	1	4	1	4	4	2	2	4	4	4	4	4	2	4
JP-8 (MIL-T-83133)	1	4	1	3	4	1	1	4	X	X	4	X	2	4
JP-9 (MIL-F-81912)	3	4	1	4	4	4	3	4	X	X	4	X	2	4



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FLUID NAME	Nitrile	Ethylene Propylene	Fluorocarbon	Neoprene	SBF	Polyacrylate	Polyurethane	Butyl	Butadiene	Isoprene	Natural Rubber	Hypalon	Fluorosilicone	Silicone
JP-9 -11	4	4	1	4	4	4	4	4	X	X	4	X	2	4
Kel F Liquids	1	1	2	X	1	X	X	1	X	X	X	1	2	1
Kerosene (Similar to RP-1 and JP-1)	1	4	1	2	4	1	1	4	4	4	4	4	1	4
Keystone #87HX-Grease	1	4	1	4	4	1	1	4	4	4	4	4	1	4
Lacquer Solvents	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Lacquers	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Lactams-Amino Acids	4	2	4	2	4	X	X	2	4	4	4	2	4	X
Lactic Acid Cold	1	1	1	1	1	4	X	1	1	1	1	1	1	1
Lactic Acid Hot	4	4	1	4	4	4	X	4	4	4	4	3	2	2
Lactones (Cyclic Esters)	4	2	4	4	4	4	4	2	4	4	4	4	4	2
Lard Animal Fat	1	2	1	2	4	1	1	2	4	4	4	4	1	2
Lead Acetate	2	1	4	2	4	4	4	1	4	1	1	4	4	4
Lead Nitrate	1	1	X	1	1	X	X	1	1	1	1	1	1	2
Lead Sulphamate	2	1	1	1	2	4	X	1	2	2	2	1	1	2
Lehigh X1169	1	4	1	2	4	1	1	4	4	4	4	2	1	4
Lehigh X1170	1	4	1	2	4	1	1	4	4	4	4	2	1	4
Ligroin (Petroleum Ether or Benzine)	1	4	1	2	4	1	2	4	4	4	4	3	1	4
Lindol, Hydraulic Fluid (Phosphate ester type)	4	1	2	4	4	4	4	1	4	4	4	4	3	3
Linoleic Acid	2	4	2	2	4	X	X	4	4	4	4	2	X	2
Linseed Oil	1	3	1	3	4	1	2	3	4	4	4	2	1	1
Liquid Oxygen (LOX)	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Liquid Petroleum Gas (LPG)	1	4	1	2	4	3	1	4	4	4	4	4	3	3
Liquimoly	1	4	1	2	4	1	2	4	4	4	4	4	1	4
Lubricating Oils, Di-ester	2	4	1	3	4	2	X	4	4	4	4	X	2	4
Lubricating Oils, SAE 10, 20, 30, 40, 50	1	4	1	2	4	1	2	4	4	4	4	4	1	4
Lubricating Oils, petroleum base	1	4	1	2	4	1	2	4	4	4	4	4	1	4
Lye Solutions	2	1	2	2	2	4	4	1	2	2	1	1	2	2
MCS 312	4	4	1	4	4	4	X	4	4	4	4	X	1	1
MCS 352	4	1	4	4	4	4	4	2	4	4	4	4	3	3
MCS 463	4	1	4	4	4	4	4	2	4	4	4	4	3	3
MIL-A-6091	2	1	1	1	1	4	4	1	1	1	1	1	1	1
MIL-C-4339	1	4	1	4	4	1	1	4	4	4	4	4	1	3
MIL-C-7024	1	4	1	2	4	2	1	4	4	4	4	4	1	4
MIL-C-8188	2	4	2	4	4	3	4	4	4	4	4	4	2	4
MIL-E-9500	1	1	1	1	1	4	4	1	1	1	1	1	1	1
MIL-F-16884	1	4	1	3	4	1	3	4	4	4	4	3	1	4
MIL-F-17111	1	4	1	2	4	1	3	4	4	4	4	2	2	4
MIL-F-25558 (RJ-1)	1	4	1	2	4	1	1	4	4	4	4	2	1	4
MIL-F-25656	1	4	1	4	4	2	2	4	4	4	4	4	2	4
MIL-F-5566	2	1	1	2	2	4	2	1	2	1	1	1	1	1
MIL-F-81912 (JP-9)	3	4	1	4	4	4	3	4	X	X	4	X	2	4
MIL-F-82522 (RJ-4)	2	4	1	4	4	1	1	4	1	1	1	X	1	4
MIL-G-10924	1	4	1	2	4	2	1	4	4	4	4	2	1	4
MIL-G-15793	1	4	1	2	4	1	1	4	4	4	4	2	2	4
MIL-G-21568	1	1	1	1	1	1	1	1	1	1	1	1	1	4
MIL-G-25013	1	1	1	2	1	1	3	1	4	4	2	2	1	4
MIL-G-25537	1	4	1	2	4	2	1	4	4	4	4	2	1	4
MIL-G-25760	2	4	1	2	4	2	2	4	4	4	4	2	2	4
MIL-G-3278	2	4	1	4	4	1	2	4	4	4	4	4	2	4
MIL-G-3545	1	4	1	2	4	1	1	4	4	4	4	2	1	4
MIL-G-4343	2	3	1	2	1	1	1	3	1	1	1	1	1	3
MIL-G-5572	1	4	1	4	4	2	2	4	4	4	4	4	1	4
MIL-G-7118	2	4	1	2	4	3	3	4	4	4	4	2	1	4
MIL-G-7187	1	4	1	4	4	1	1	4	4	4	4	4	1	4
MIL-G-7421	2	4	1	2	4	4	2	4	4	4	4	2	2	4
MIL-G-7711	1	4	1	4	4	2	1	4	4	4	4	4	1	2
MIL-H-13910	1	1	1	1	1	2	4	1	1	1	1	1	2	4
MIL-H-19457	4	2	1	4	4	4	4	1	4	4	4	4	4	3
MIL-H-22251	2	1	X	2	2	X	X	1	X	X	X	2	X	4
MIL-H-27601	1	4	1	2	4	1	3	4	4	4	4	3	2	4
MIL-H-46170 -15°F to +400°F	1	4	1	2	4	2	2	4	4	4	4	2	1	4
MIL-H-46170 -20°F to +275°F	1	4	1	2	4	2	2	4	4	4	4	2	1	4



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	Nitrile	Ethylene Propylene	Fluorocarbon	Neoprene	SBF	Polyacrylate	Polyurethane	Butyl	Butadiene	Isoprene	Natural Rubber	Hypalon	Fluorosilicone	Silicone
Methyl Cellosolve	3	2	4	3	4	4	4	2	4	4	4	2	4	4
Methyl Cellulose	2	2	4	2	2	4	2	2	2	2	2	2	4	2
Methyl Chloride	4	3	1	4	4	4	4	3	4	4	4	4	2	4
Methyl Chloroformate	4	4	1	4	4	4	4	4	4	4	4	4	2	4
Methyl Ether	1	4	1	3	4	4	X	4	1	1	4	4	1	1
Methyl Ethyl Ketone (MEK)	4	1	4	4	4	4	4	1	4	4	4	4	4	4
Methyl Ethyl Ketone Peroxide	4	4	4	4	4	4	4	4	4	4	4	4	4	2
Methyl Formate	4	2	X	2	4	X	X	2	4	4	4	2	X	X
Methyl Isobutyl Ketone (MIBK)	4	3	4	4	4	4	4	3	4	4	4	4	4	4
Methyl Isopropyl Ketone	4	2	4	4	4	4	4	2	4	4	4	4	4	4
Methyl Mercaptan	X	1	X	X	X	X	X	1	X	X	X	X	X	X
Methyl Methacrylate	4	4	4	4	4	4	X	4	4	4	4	4	4	4
Methyl Oleate	4	2	1	4	4	X	X	2	4	X	4	4	2	X
Methyl Salicylate	4	2	X	4	3	X	X	2	X	X	3	4	X	X
Methylacrylic Acid	4	2	3	2	4	4	4	2	4	4	4	4	4	4
Methylcyclopentane	4	4	1	4	4	4	4	4	4	4	4	4	2	4
Methylene Chloride	4	4	2	4	4	4	4	4	4	4	4	4	2	4
Milk	1	1	1	1	1	4	4	1	1	1	1	1	1	1
Mineral Oils	1	3	1	2	4	1	1	3	4	4	4	2	1	2
Mobil SHC 500 Series	3	4	1	2	X	1	2	4	X	X	X	2	2	2
Mobil SHC 600 Series	3	4	1	2	4	1	1	4	X	X	X	2	2	3
Mobilgear 600 Series	3	3	1	1	4	1	2	3	3	4	4	2	1	1
Mobilgear SHC ISO Series	3	3	1	2	4	1	2	3	3	4	4	2	1	1
Mobilgrease HP	2	4	1	2	4	1	1	4	X	4	4	3	1	2
Mobilgrease HTS	2	4	1	2	4	1	1	4	X	4	4	3	1	2
Mobilgrease SM	2	4	1	2	4	1	1	4	X	4	4	3	1	2
Mobilith AW Series	2	4	1	2	4	1	1	4	X	4	4	3	1	2
Mobilith SHC Series	2	4	1	3	4	1	1	4	X	4	4	3	1	2
Mobilmistube Series	3	3	1	1	4	1	2	3	3	4	4	2	1	1
Mono Bromobenzene	4	4	1	4	4	4	4	4	4	4	4	4	2	4
Mono Ethanolamine	4	2	4	4	2	4	4	2	2	2	2	4	4	2
Monochlorobenzene	4	4	1	4	4	4	4	4	4	4	4	4	2	4
Monoitrotoluene & Dinitrotoluene (40/60 Mixture)	4	4	3	4	4	4	4	4	4	4	4	4	3	4
Monomethyl Hydrazine	2	1	X	2	2	X	X	1	X	X	X	2	X	4
Monomethylaniline	4	2	2	4	4	4	4	2	4	4	4	4	X	X
Monovinyl Acetylene	1	1	1	2	2	X	X	1	2	2	2	2	X	2
Mopar Brake Fluid	3	1	4	2	1	X	X	2	X	X	X	2	4	3
N-Butyl Acetate	4	2	4	4	4	4	4	2	4	4	4	4	4	4
N-Butyl Benzoate	4	1	1	4	2	4	X	1	4	4	4	4	1	X
N-Butyl Butyrate	4	1	1	4	4	4	X	1	4	4	4	4	1	X
N-Butyl Ether	3	3	4	4	4	4	3	3	4	4	4	4	3	4
N-Heptane	1	4	1	2	4	1	2	4	4	4	4	2	3	4
N-Hexaldehyde	4	1	4	1	4	X	2	2	2	4	4	3	4	2
N-Hexane	1	4	1	2	4	1	2	4	4	4	4	2	3	4
N-Hexane-1	2	4	1	2	4	1	2	4	4	4	4	2	4	4
N-Methyl-2-Pyrrolidone	X	2	X	X	X	X	X	X	X	X	X	X	X	X
N-Octane	1	4	1	4	4	4	4	4	4	4	4	4	2	4
N-Pentane	1	4	1	1	3	1	4	4	4	4	4	2	3	4
N-Propyl Acetate	4	1	4	4	4	4	4	1	4	4	4	4	4	4
Naphthalene	4	4	1	4	4	X	2	4	4	4	4	4	1	4
Naphthenic Acid	2	4	1	4	4	X	X	4	4	4	4	4	1	4
Naptha	2	4	1	4	4	2	2	4	4	4	4	4	2	4
Natural Gas	1	4	1	1	2	2	2	4	2	2	2	1	3	4
Neatsfoot Oil	1	2	1	4	4	1	1	2	4	4	4	4	1	2
Neon	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Neville Acid	4	2	1	4	4	4	X	2	4	4	4	4	2	4
Nickel Acetate	2	1	4	2	4	4	4	1	4	1	1	4	4	4
Nickel Chloride	1	1	1	2	1	3	3	1	1	1	1	1	1	1
Nickel Salts	1	1	1	2	1	3	3	1	1	1	1	1	1	1
Nickel Sulfate	1	1	1	1	2	4	3	1	2	2	2	1	1	1
Niter Cake	1	1	1	1	1	4	1	1	1	1	1	1	1	1
Nitric Acid 3 Molar to 158°F	4	2	3	4	3	4	4	2	X	X	X	2	4	4

FLUID COMPATIBILITY CHART

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FLUID NAME	MATERIAL													
	Nitrile	Ethylene Propylene	Fluorocarbon	Neoprene	SBR	Polyacrylate	Polyurethane	Butyl	Butadiene	Isoprene	Natural Rubber	Hypalon	Fluorosilicone	Silicone
Nitric Acid Concentrated Room Temp.	X	4	2	X	X	X	X	X	X	X	X	X	X	X
Nitric Acid Concentrated to 158°F	4	4	4	4	4	4	4	4	X	X	4	X	4	4
Nitrobenzene	4	1	2	4	4	4	4	1	4	4	4	4	4	4
Nitroethane	4	2	4	2	2	4	4	2	2	2	2	2	4	4
Nitrogen	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Nitrogen Tetroxide (N2O4)	4	4	4	4	4	4	4	2	4	4	4	4	4	4
Nitromethane	4	2	4	3	3	4	4	2	2	2	2	2	4	4
Nitropropane	4	2	4	4	4	4	4	2	4	4	4	4	4	4
Nitrous Oxide	1	1	1	X	X	X	X	X	X	X	X	X	X	1
Noryl GE Phenolic	1	1	X	X	X	X	X	X	X	X	X	X	X	X
Nyvac FR200 Mobil	1	1	1	2	4	X	X	4	4	X	4	3	X	X
O-Chloronaphthalene	4	4	1	4	4	4	4	4	4	4	4	4	2	4
O-Chlorophenol	4	4	1	4	4	4	4	4	4	4	4	4	2	4
O-Dichlorobenzene	4	4	1	4	4	4	4	4	4	4	4	4	2	4
OS 45 Type III (OS45)	2	4	1	1	4	X	4	4	4	4	4	2	2	4
OS 45 Type IV (OS45-1)	2	4	1	1	4	X	4	4	4	4	4	2	2	4
OS 70	2	4	1	1	4	X	4	4	4	4	4	2	2	4
Octachloro Toluene	4	4	1	4	4	4	4	4	4	4	4	4	2	4
Octadecane	1	4	1	2	4	2	1	4	4	4	4	2	1	4
Octyl Alcohol	2	3	1	2	2	4	4	2	2	2	2	2	2	2
Oleic Acid	3	4	2	4	4	4	2	4	4	4	4	4	X	4
Oleum (Fuming Sulfuric Acid)	4	4	1	4	4	4	4	4	4	4	4	4	X	4
Oleum Spirits	2	4	1	3	4	X	3	4	4	4	4	2	2	4
Olive Oil	1	2	1	2	4	1	1	2	4	4	4	2	1	3
Oronite 8200	2	4	1	1	4	X	1	4	4	4	4	4	1	4
Oronite 8515	2	4	1	1	4	X	1	4	4	4	4	4	1	4
Ortho-Dichlorobenzene	4	4	1	4	4	4	4	4	4	4	4	4	2	4
Orthochloro Ethyl Benzene	4	4	1	4	4	4	4	4	4	4	4	4	2	4
Oxalic Acid	2	1	1	2	2	X	X	1	2	2	2	2	1	2
Oxygen, 200-400°F (Evalute for specific applications)	4	4	2	4	4	4	4	4	4	4	4	4	4	1
Oxygen, Cold (Evalute for specific applications)	2	1	1	2	2	2	1	1	2	2	2	1	1	1
Ozone	4	1	1	2	4	2	1	2	4	4	4	1	1	1
P-Cymene	4	4	1	4	4	4	4	4	4	4	4	4	2	4
P-Dichlorobenzene	4	4	1	4	4	4	4	4	4	4	4	4	2	4
P-Tertiary Butyl Catechol	4	2	1	2	2	4	4	2	2	4	4	2	1	X
PRL-High Temp. Hydr. Oil	2	4	1	2	4	1	2	4	4	4	4	4	1	2
Paint Thinner, Duco	4	4	2	4	4	4	4	4	4	4	4	4	2	4
Palmitic Acid	1	2	1	2	2	X	1	2	2	2	2	3	1	4
Par-al-Ketone	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Para-dichlorobenzene	4	4	1	4	4	4	4	4	4	4	4	4	2	4
Parker O Lube	1	4	1	1	2	1	1	4	4	4	4	1	1	2
Peanut Oil	1	3	1	3	4	1	2	3	4	4	4	2	1	1
Pentane, 2 Methyl	1	4	1	2	4	1	4	4	4	4	4	2	3	4
Pentane, 2-4 dimethyl	1	4	1	2	4	1	4	4	4	4	4	2	3	4
Pentane, 3-Methyl	1	4	1	2	4	1	4	4	4	4	4	2	3	4
Perchloric Acid - 2N	4	2	1	2	4	4	4	2	4	4	4	2	1	4
Perchloroethylene	2	4	1	4	4	4	4	4	4	4	4	4	2	4
Petrolatum	1	4	1	2	4	1	1	4	4	4	4	2	1	4
Petroleum Oil, Above 250°F	4	4	2	4	4	4	4	4	4	4	4	4	4	4
Petroleum Oil, Below 250°F	1	4	1	2	4	2	2	4	4	4	4	2	2	2
Petroleum Oil, Crude	1	4	1	2	4	1	1	4	4	4	4	2	1	4
Phenol	4	4	1	4	4	4	4	4	4	4	4	4	2	4
Phenol, 70%/30% H ₂ O	4	4	1	4	4	4	4	4	4	4	4	4	2	4
Phenol, 85%/15% H ₂ O	4	4	1	4	4	4	4	4	4	4	4	4	2	4
Phenyl Ethyl Ether	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Phenylbenzene	4	4	1	4	4	4	4	4	4	4	4	4	2	4
Phenylhydrazine	4	2	1	4	2	4	X	4	2	1	1	4	X	X
Phorone	4	3	4	4	4	4	4	3	4	4	4	4	4	4
Phosphoric Acid 3 Molar to 158°F	1	1	1	2	2	3	4	1	X	X	X	1	2	2
Phosphoric Acid Concentrated Room Temp	2	1	1	2	1	2	4	1	X	X	X	1	3	3
Phosphoric Acid Concentrated to 158°F	4	1	1	3	2	3	4	1	X	X	X	1	3	4
Phosphorous Trichloride	4	1	1	4	4	X	X	1	X	X	4	4	1	X



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FLUID NAME	Nitrile	Ethylene Propylene	Fluorocarbon	Neoprene	SBF	Polyacrylate	Polyurethane	Butyl	Butadiene	Isoprene	Natural Rubber	Hypalon	Fluorosilicone	Silicone
Pickling Solution	4	3	2	4	4	4	4	3	4	4	4	2	4	4
Picric Acid H ₂ O Solution	1	1	1	1	2	X	X	1	2	2	1	1	2	X
Picric Acid Molten	2	2	1	2	2	X	X	2	4	2	2	2	2	4
Pine Oil	1	4	1	4	4	X	X	4	4	4	4	4	1	4
Pinene	2	4	1	3	4	4	2	4	4	4	4	4	1	4
Piperidine	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Plating Solutions Chrome	4	2	1	4	4	4	4	2	4	4	4	4	2	2
Plating Solutions Others	1	1	1	4	4	X	X	1	X	X	4	1	X	4
Pneumatic Service	1	1	1	1	4	4	1	1	4	4	4	1	4	4
Polyvinyl Acetate Emulsion	X	1	X	2	4	X	X	1	X	X	2	2	X	X
Potassium Acetate	2	1	4	2	4	4	4	1	4	1	1	1	4	4
Potassium Chloride	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Potassium Cupro Cyanide	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Potassium Cyanide	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Potassium Dichromate	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Potassium Hydroxide 50%	2	1	4	2	2	4	4	1	2	2	2	1	3	3
Potassium Nitrate	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Potassium Salts	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Potassium Sulfite	1	1	1	1	2	4	1	1	1	2	2	2	1	1
Potassium Sulphate	1	1	1	1	2	4	1	1	1	2	2	2	1	1
Prestone Antifreeze	1	1	1	1	1	4	4	1	1	1	1	1	1	1
Producer Gas	1	4	1	2	4	2	1	4	4	4	4	2	2	2
Propane	1	4	1	2	4	1	3	4	4	4	4	2	2	4
Propyl Acetate	4	2	4	4	4	4	4	2	4	4	4	4	4	4
Propyl Alcohol	1	1	1	1	1	4	4	1	1	1	1	1	1	1
Propyl Nitrate	4	2	4	4	4	4	X	2	4	4	4	4	4	4
Propylene	3	4	1	4	4	4	4	4	4	4	4	4	3	4
Propylene Oxide	4	2	4	4	4	4	4	2	4	4	4	4	4	4
Pydraul, 10E	4	1	4	4	4	4	4	1	4	4	4	4	4	1
Pydraul, 115E	4	1	1	4	4	4	4	1	4	4	4	4	3	4
Pydraul, 230C, 312C, 540C, A200	4	4	1	4	4	4	4	4	4	4	4	4	4	4
Pydraul, 29ELT 30E, 50E, 65E	4	1	1	4	4	4	4	1	4	4	4	4	1	1
Pyranol Transformer Oil	1	4	1	2	4	1	2	4	4	4	4	2	1	4
Pyridine Oil	4	2	4	4	4	4	X	2	4	4	4	4	4	4
Pyrogard 53, Mobil Phosphate Ester	4	1	1	4	4	4	4	1	4	4	4	4	4	4
Pyrogard D, Mobil Water-in-Oil Emulsion	1	4	4	2	4	X	1	4	4	4	4	1	2	3
Pyroligneous Acid	4	2	4	2	4	4	4	2	4	4	4	2	4	X
Pyrolube	4	2	1	4	4	4	4	2	4	4	4	4	2	2
Pyrrrole	4	4	4	4	2	4	X	4	2	2	2	2	4	2
RJ-1 (MIL-F-25558)	1	4	1	2	4	1	1	4	4	4	4	2	1	4
RJ-4 (MIL-F-82522)	2	4	1	4	4	2	2	4	X	X	4	X	1	4
RP-1 (MIL-R-25576)	1	4	1	2	4	1	1	4	4	4	4	2	1	4
Radiation (GAMMA, 1.0 E+07 RADS)	3	2	4	X	X	X	4	4	X	X	4	X	4	2
Rapeseed Oil	2	1	1	2	4	2	2	1	4	4	4	2	1	4
Red Line 100 Oil	1	4	1	2	4	1	1	4	4	4	4	2	1	4
Red Oil (MIL-H-5606)	1	4	1	2	4	1	1	4	4	4	4	2	1	4
SF 1154 GE Silicone Fluid	2	1	1	1	1	1	2	1	X	1	1	1	1	4
SF1147 GE Silicone Fluid	2	3	1	X	X	X	X	3	X	X	X	X	X	4
SF96 GE Silicone Fluid	2	1	1	1	1	1	2	1	1	1	1	1	1	4
SR-10 Fuel	1	4	1	4	4	2	2	4	4	4	4	4	1	4
SR-6 Fuel	2	4	1	4	4	2	2	4	4	4	4	4	1	4
Sal Ammoniac	1	1	1	1	1	1	1	1	1	1	1	1	1	2
Salicylic Acid	2	1	1	X	2	X	X	1	2	1	1	X	1	X
Santo Safe 300	4	3	1	4	4	4	X	3	4	4	4	X	1	1
Sea (Salt) Water	1	1	1	2	1	4	2	1	1	1	1	1	1	1
Sewage	1	1	1	2	1	4	4	1	1	1	1	1	1	1
Shell 3XF Mine Fluid (Fire resist hydr.)	1	4	1	2	4	4	4	4	4	4	4	2	1	X
Shell Alvania Grease #2	1	4	1	2	4	1	1	4	4	4	4	4	1	2
Shell Carnea 19 and 29	1	4	1	4	4	1	2	4	4	4	4	4	1	X
Shell Diala	1	4	1	2	4	1	2	4	4	4	4	4	1	4
Shell Iruis 905	1	4	1	2	4	1	1	4	4	4	4	4	1	4
Shell Lo Hydrax 27 and 29	1	4	1	2	4	1	2	4	4	4	4	4	1	4

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	Nitrile	Ethylene Propylene	Fluorocarbon	Neoprene	SBR	Polyacrylate	Polyurethane	Butyl	Butadiene	Isoprene	Natural Rubber	Hypalon	Fluorosilicone	Silicone
Shell Macome 72	1	4	1	2	4	1	2	4	4	4	4	4	1	4
Shell Tellus #32 Pet. Base	1	4	1	2	4	1	1	4	4	4	4	4	1	4
Shell Tellus #68	1	4	1	2	4	1	1	4	4	4	4	4	1	4
Shell UMF (5% Aromatic)	1	4	1	2	4	1	1	4	4	4	4	4	1	4
Silicate Esters	2	4	1	1	4	X	1	4	4	4	4	X	1	4
Silicone Greases	1	1	1	1	1	1	1	1	1	1	1	1	2	3
Silicone Oils	1	1	1	1	1	1	1	1	1	1	1	1	1	3
Silver Nitrate	2	1	1	1	1	1	1	1	1	1	1	1	1	1
Sinclair Opaline CX-EP Lube	1	4	1	2	4	1	1	4	4	4	4	2	1	4
Skelly, Solvent B, C, E	1	4	1	4	4	X	X	4	4	4	4	4	1	X
Skydrol 500 B4	4	1	4	4	4	4	4	2	4	4	4	4	3	3
Skydrol LD-4	4	1	4	4	4	4	4	2	4	4	4	4	3	3
Soap Solutions	1	1	1	2	2	4	4	1	1	1	2	1	1	1
Socony Mobile Type A	1	4	1	2	4	1	2	4	4	4	4	4	2	4
Socony Vacuum AMV AC781 (grease)	1	4	1	2	4	1	2	4	4	4	4	4	2	4
Socony Vacuum PD959B	1	4	1	2	4	1	1	4	4	4	4	2	1	4
Soda Ash	1	1	1	1	1	X	X	1	1	1	1	1	1	1
Sodium Acetate	2	1	4	2	4	3	3	1	4	1	1	1	4	4
Sodium Bicarbonate (Baking Soda)	1	1	1	1	1	X	X	1	1	1	1	1	1	1
Sodium Bisulfate or Bisulfite	1	1	1	1	2	4	X	1	2	2	1	1	1	1
Sodium Borate	1	1	1	1	1	X	X	1	1	1	1	1	1	1
Sodium Carbonate (Soda Ash)	1	1	1	1	1	X	X	1	1	1	1	1	1	1
Sodium Chloride	1	1	1	1	1	X	1	1	1	1	1	1	X	1
Sodium Cyanide	1	1	X	1	1	X	X	1	1	1	1	1	X	1
Sodium Hydroxide, 3 Molar	2	1	2	2	2	4	2	1	1	1	1	1	2	1
Sodium Hypochlorite	2	1	1	2	2	4	4	1	2	2	2	1	2	2
Sodium Metaphosphate	1	1	1	2	1	X	X	1	1	1	1	2	1	X
Sodium Nitrate	2	1	X	2	2	X	X	1	1	1	2	1	X	4
Sodium Perborate	2	1	1	2	2	X	X	1	2	2	2	2	1	2
Sodium Peroxide	2	1	1	2	2	4	4	1	2	2	2	2	1	4
Sodium Phosphate (Dibasic)	1	1	1	2	1	1	1	1	1	1	1	1	X	4
Sodium Phosphate (Mono)	1	1	1	2	1	1	1	1	1	1	1	1	X	4
Sodium Phosphate (Tribasic)	1	1	1	2	1	1	1	1	1	1	1	1	X	1
Sodium Salts	1	1	1	2	1	1	1	1	1	1	1	1	1	1
Sodium Silicate	1	1	1	1	1	X	X	1	1	1	1	1	X	X
Sodium Sulphate	1	1	1	1	2	4	1	1	2	2	2	1	1	1
Sodium Sulphide and Sulfite	1	1	1	1	2	4	1	1	2	2	2	1	1	1
Sodium Thiosulfate	2	1	1	1	2	4	1	1	2	2	2	1	1	1
Sour Crude Oil	3	4	1	4	4	4	4	4	4	4	4	X	4	4
Sour Natural Gas	3	4	1	4	4	4	4	4	4	4	4	X	4	4
Sovasol No. 1, 2, and 3	1	4	1	2	4	2	2	4	4	4	4	2	1	4
Sovasol No. 73 and 74	2	4	1	2	4	2	2	4	4	4	4	2	1	4
Soybean Oil	1	3	1	3	4	1	X	3	4	4	4	3	1	1
Spry	1	2	1	2	4	1	1	2	4	4	4	4	1	1
Standard Oil Mobilube GX90-EP Lube	1	4	1	2	4	1	1	4	4	4	4	2	1	4
Stannic Chloride	1	1	1	4	1	X	X	1	1	1	1	4	1	2
Stannic Chloride, 50%	1	1	1	4	1	X	X	1	1	1	1	4	1	2
Stannous Chloride (15%)	1	1	1	1	1	X	X	1	1	1	1	1	1	2
Stauffer 7700	2	4	1	4	4	2	X	4	4	4	4	4	2	4
Steam Below 400°F	4	1	4	4	4	4	4	2	4	4	4	4	4	3
Steam, 400°-500°F	4	3	4	4	4	4	4	4	4	4	4	4	4	4
Steam, Above 500°F														
Stearic Acid	2	2	X	2	2	X	X	2	2	2	2	2	X	2
Stoddard Solvent	1	4	1	2	4	1	1	4	4	4	4	4	1	4
Styrene (Monomer)	4	4	2	4	4	4	X	4	4	4	4	4	3	4
Sucrose Solutions	1	1	1	2	1	4	4	1	1	1	1	2	1	1
Sulfur	4	1	1	1	4	4	X	1	4	4	4	X	1	X
Sulfur Chloride	4	4	1	4	4	4	X	4	4	4	4	4	1	3
Sulfur Dioxide, Dry	4	1	4	4	2	4	X	2	2	2	2	4	2	2
Sulfur Dioxide, Liquidified under pressure	4	1	4	4	4	4	X	2	4	4	4	4	2	2
Sulfur Dioxide, Wet	4	1	4	2	4	4	X	1	4	4	4	3	2	2
Sulfur Liquors	2	2	1	2	2	4	X	2	2	2	2	2	2	4



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FLUID NAME	Nitrile	Ethylene Propylene	Fluorocarbon	Neoprene	SBF	Polyacrylate	Polyurethane	Butyl	Butadiene	Isoprene	Natural Rubber	Hypalon	Fluorosilicone	Silicone
Sulfur Molten	4	3	1	3	4	4	4	3	4	4	4	4	3	3
Sulfur Trioxide Dry	4	2	1	4	3	4	X	2	2	2	2	4	2	2
Sulfuric Acid, 3 Molar to 158°F	2	1	1	2	3	2	4	1	X	X	X	1	1	1
Sulfuric Acid, Concentrated Room Temp	X	3	1	X	X	X	3	X	X	X	X	X	X	X
Sulfuric Acid, Concentrated to 158°F	4	4	1	4	4	4	4	4	X	X	X	X	4	4
Sulfurous Acid	2	2	1	2	2	4	3	2	2	2	2	1	X	4
Sunoco #3661	1	4	1	2	4	1	1	4	4	4	4	2	1	4
Sunoco All purpose grease	1	4	1	2	4	1	1	4	4	4	4	2	1	4
Sunoco SAE 10	1	4	1	2	4	1	1	4	4	4	4	2	1	4
Sunsafe (Fire resist. hydr. fluid)	1	4	1	2	4	4	4	4	4	4	4	2	1	X
Super Shell Gas	1	4	1	2	4	2	2	4	4	4	4	4	2	4
Swan Finch EP Lube	1	4	1	4	4	1	1	4	4	4	4	4	1	4
Swan Finch Hypoid-90	1	4	1	2	4	1	1	4	4	4	4	4	1	4
Tannic Acid (10%)	1	1	1	1	2	4	X	1	1	1	1	1	1	2
Tar, bituminous	2	4	1	3	4	4	X	4	4	2	3	4	1	2
Tartaric Acid	1	2	1	2	4	X	1	2	2	1	3	1	1	1
Terpineol	2	3	1	4	4	X	2	3	4	4	4	4	1	X
Tertiary Butyl Alcohol	2	2	1	2	2	4	4	2	2	2	2	2	2	2
Tertiary Butyl Mercaptan	4	4	1	4	4	4	4	4	4	4	4	4	X	4
Tetrabromoethane	4	4	1	4	4	4	X	4	4	4	4	4	2	4
Tetrabutyl Titanate	2	1	1	2	2	X	X	2	2	2	2	4	4	4
Tetrachloroethylene	4	4	1	4	4	4	4	4	4	4	4	4	2	4
Tetrachoroethane	4	4	1	4	4	4	4	4	4	4	4	4	2	X
Tetraethyl Lead	2	4	1	2	4	X	X	4	4	4	4	4	2	X
Tetraethyl Lead Blend	2	4	1	4	4	X	X	4	4	4	4	4	2	X
Tetrahydrofuran	4	2	4	4	4	4	3	2	4	4	4	4	4	4
Tetralin	4	4	1	4	4	X	X	4	4	4	4	4	1	4
Texaco 3450 Gear Oil	1	4	1	4	4	1	1	4	4	4	4	4	1	4
Texaco Capella A and AA	1	4	1	2	4	1	2	4	4	4	4	4	1	4
Texaco Meropa 220 (No Lead)	1	4	1	2	4	1	2	4	4	4	4	4	1	4
Texaco Regal B	1	4	1	4	4	1	1	4	4	4	4	4	1	4
Texaco Uni-Temp Grease	1	4	1	2	4	1	1	4	4	4	4	4	1	2
Texamatic A 1581 Fluid	1	4	1	2	4	1	2	4	4	4	4	4	2	4
Texamatic A 3401 Fluid	1	4	1	2	4	1	2	4	4	4	4	4	2	4
Texamatic A 3525 Fluid	1	4	1	2	4	1	2	4	4	4	4	4	2	4
Texamatic A 3528 Fluid	1	4	1	2	4	1	2	4	4	4	4	4	2	4
Texamatic A Transmission Oil	1	4	1	2	4	1	2	4	4	4	4	4	2	4
Texas 1500 Oil	1	4	1	2	4	1	1	4	4	4	4	4	1	2
Therminol 44	4	4	1	4	X	4	X	4	X	X	X	X	X	4
Therminol 55	2	4	1	4	X	2	X	4	X	X	X	X	X	4
Therminol VP-1, 60, 65	4	4	1	4	X	4	X	4	X	X	X	X	X	2
Thiokol TP-90B	4	1	1	2	4	X	X	1	X	X	X	2	2	X
Thiokol TP-95	4	1	1	2	4	X	X	1	X	X	X	2	2	X
Tidewater Multigear, 140 EP Lube	1	4	1	2	4	1	1	4	4	4	4	2	1	4
Tidewater Oil-Beedol	1	4	1	2	4	1	1	4	4	4	4	4	1	2
Titanium Tetrachloride	2	4	1	4	4	4	4	4	4	4	4	4	2	4
Toluene	4	4	1	4	4	4	4	4	4	4	4	4	2	4
Toluene Diisocyanate	4	2	4	4	4	4	X	2	4	4	4	4	4	4
Transformer Oil	1	4	1	2	4	2	1	4	4	4	4	4	1	2
Transmission Fluid Type A	1	4	1	2	4	1	1	4	4	4	4	2	1	2
Triacetin	2	1	4	2	3	4	4	1	2	2	2	2	4	X
Triaryl Phosphate	4	1	1	4	4	4	4	1	4	4	4	4	2	3
Tributoxyethyl Phosphate	4	1	1	4	2	4	4	1	2	4	2	4	2	X
Tributyl Mercaptan	4	4	1	4	4	4	X	4	4	4	4	4	3	4
Tributyl Phosphate	4	1	4	4	4	4	4	2	4	2	2	4	4	4
Trichloroacetic Acid	2	2	3	4	2	4	4	2	2	2	2	4	4	X
Trichloroethane	4	4	1	4	4	4	4	4	4	4	4	4	2	4
Trichloroethylene	3	4	1	4	4	4	4	4	4	4	4	4	2	4
Tricresyl Phosphate	4	1	2	3	2	4	4	1	4	4	4	4	2	3
Triethanol Amine	3	2	4	2	2	4	4	2	2	2	2	2	4	X
Trifluoroethane	4	4	1	4	4	4	4	4	4	4	4	4	2	4
Trinitrotoluene	4	4	2	2	4	4	X	4	4	4	4	2	2	X

FLUID COMPATIBILITY CHART

COMPATIBILITY RATING:

1 = Satisfactory
2 = Fair (Usually OK for Static Seal)
3 = Doubtful (Sometimes OK for Static Seal)
4 = Unsatisfactory
X = Insufficient Data

FLUID NAME	MATERIAL													
	Nitrile	Ethylene Propylene	Fluorocarbon	Neoprene	SBR	Polyacrylate	Polyurethane	Butyl	Butadiene	Isoprene	Natural Rubber	Hypalon	Fluorosilicone	Silicone
Trioctyl Phosphate	4	1	2	4	4	4	4	1	4	4	4	4	2	3
Tripoly Phosphate	4	1	2	3	4	4	4	1	4	4	4	4	1	3
Tung Oil (China Wood Oil)	1	4	1	2	4	X	3	3	4	4	4	3	2	4
Turbine Oil	1	4	1	4	4	1	1	4	4	4	4	4	1	4
Turbine Oil #15 (MIL-L-7808A)	2	4	1	4	4	2	4	4	4	4	4	4	2	4
Turbo Oil #35	1	4	1	2	4	1	1	4	4	4	4	4	1	4
Turpentine	1	4	1	4	4	2	4	4	4	4	4	4	2	4
Type I Fuel (MIL-S-3136)(ASTM Ref. Fuel A)	1	4	1	2	4	1	1	4	4	4	4	2	1	4
Type II Fuel MIL-S-3136	2	4	1	4	4	3	2	4	4	4	4	4	2	4
Type III Fuel MIL-S-3136 (ASTM Ref. Fuel B)	2	4	1	4	4	3	2	4	4	4	4	4	2	4
Ucon Hydrolube J-4	1	1	1	2	1	4	4	1	2	X	X	X	2	1
Ucon Lubricant 50-HB-100	1	1	1	1	1	X	X	1	1	1	1	1	1	1
Ucon Lubricant 50-HB-260	1	1	1	1	1	X	X	1	1	1	1	1	1	1
Ucon Lubricant 50-HB-5100	1	1	1	1	1	X	X	1	1	1	1	1	1	1
Ucon Lubricant 50-HB-660	1	1	1	1	1	X	X	1	1	1	1	1	1	1
Ucon Lubricant 50-HB55	1	1	1	1	1	X	X	1	1	1	1	1	1	1
Ucon Lubricant LB-1145	1	1	1	1	1	X	X	1	1	1	1	1	1	1
Ucon Lubricant LB-135	1	1	1	1	1	X	X	1	1	1	1	1	1	1
Ucon Lubricant LB-285	1	1	1	1	1	X	X	1	1	1	1	1	1	1
Ucon Lubricant LB-300X	1	1	1	1	1	X	X	1	1	1	1	1	1	1
Ucon Lubricant LB-625	1	1	1	1	1	X	X	1	1	1	1	1	1	1
Ucon Lubricant LB-65	1	1	1	1	2	X	X	1	2	2	2	2	1	1
Ucon Oil Heat Transfer Fluid 500(Polyalkalene Glycol)	1	1	1	1	1	X	X	1	1	1	1	1	1	1
Ucon Oil LB-385	1	1	1	1	1	X	X	1	1	1	1	1	1	1
Ucon Oil LB-400X	1	1	1	1	1	X	X	1	1	1	1	1	1	1
Univis 40 (Hydr. Fluid)	1	4	1	2	4	1	1	4	4	4	4	2	1	4
Univolt #35 (Mineral Oil)	1	4	1	2	4	1	1	4	4	4	4	4	1	4
Unsymmetrical Dimethyl Hydrazine (UDMH)	2	1	4	2	2	X	X	1	1	1	1	1	4	4
Uranium Hexachloride	X	X	1	X	X	X	X	X	X	X	X	X	X	X
VV-H-910	3	1	1	2	1	2	4	2	2	2	2	2	2	2
Varnish	2	4	1	4	4	4	3	4	4	4	4	4	2	4
Vegetable Oil	1	3	1	3	4	1	X	3	4	4	4	X	1	1
Versilube F-50	1	1	1	1	1	1	1	1	1	1	1	1	1	3
Vinegar	2	2	3	2	2	4	4	2	2	2	2	X	3	3
Vinyl Chloride	X	4	X	X	X	X	X	X	X	X	X	X	X	X
Wagner 21B Brake Fluid	3	1	4	2	1	X	X	2	X	X	2	2	4	3
Water	1	1	2	2	1	4	4	1	1	1	1	1	1	1
Wemco C	1	4	1	2	4	1	1	4	4	4	4	4	1	4
Whiskey and Wines	1	1	1	1	1	4	4	1	1	1	1	1	1	1
White Oil	1	4	1	2	4	1	1	4	4	4	4	4	1	4
White Pine Oil	2	4	1	4	4	X	X	4	4	4	4	4	1	4
Wolmar Salt	1	1	1	2	1	2	1	1	1	1	1	1	1	1
Wood Alcohol	1	1	4	1	1	4	4	1	1	1	1	1	1	1
Wood Oil	1	4	1	2	4	1	3	3	4	4	4	3	2	4
Xenon	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Xylene	4	4	1	4	4	4	4	4	4	4	4	4	1	4
Xylidenes-Mixed-Aromatic Amines	3	4	4	4	4	4	4	4	4	4	4	4	4	4
Xylol	4	4	1	4	4	4	4	4	4	4	4	4	1	4
Zeolites	1	1	1	1	1	X	X	1	1	1	1	1	1	X
Zinc Acetate	2	1	4	2	4	4	4	1	4	1	1	4	4	4
Zinc Chloride	1	1	1	1	1	4	X	1	1	1	1	1	1	X
Zinc Salts	1	1	1	1	1	4	1	1	1	1	1	1	1	1
Zinc Sulfate	1	1	1	1	2	4	X	1	2	2	2	1	1	1