

COMPOUND COMPATIBILITY RATING 1 - Excellent 2 - Good 3 - Limited 4 - Poor x - Insufficient Data	Nitrile NBR	Hydrogenated Nitrile HNBR	Ethylene Propylene EPDM	Fluorocarbon FKM	Hifluor FKM	Perfluoroelastomer FFKM	Aflas (TFE/Propylene) FEPM	Neoprene/Chloroprene CR	Styrene-Butadiene SBR	Polyacrylate ACM	Polyurethane AU, EU	Butyl IIR
	— A —											
Abietic Acid	X	X	X	X	1	1	X	X	X	X	X	X
Acetaldehyde	3	3	2	4	1	1	3	3	3	4	4	2
Acetamide	1	1	1	3	1	1	2	1	4	4	4	2
Acetanilide	3	3	1	3	1	1	X	1	1	4	4	1
Acetic Acid, 30%	X	X	1	X	1	1	X	X	X	X	X	X
Acetic Acid, 5%	2	2	1	1	1	1	1	1	2	4	4	1
Acetic Acid, Glacial	2	2	1	2	1	1	3	4	2	4	4	2
Acetic Acid, Hot, High Pressure	4	4	3	4	2	1	3	4	4	4	4	4
Acetic Anhydride	3	4	2	4	1	1	2	2	2	4	4	2
Acetoacetic Acid	3	3	1	3	1	1	X	1	1	4	4	1
Acetone	4	4	1	4	2	1	2	4	4	4	4	1
Acetone Cyanohydrin	3	3	1	3	1	1	X	1	1	4	4	1
Acetonitrile	3	X	1	1	1	1	1	X	X	X	X	X
Acetophenetidine	2	2	4	1	1	1	X	4	4	4	3	4
Acetophenone	4	4	1	4	2	1	2	4	4	4	4	2
Acetotoluidide	2	2	4	1	1	1	X	4	4	4	3	4
Acetyl Acetone	4	4	1	4	2	1	2	4	4	4	4	1
Acetyl Bromide	4	4	1	1	1	1	2	4	4	4	4	1
Acetyl Chloride	4	4	4	1	1	1	2	4	4	4	4	4
Acetylene	1	1	1	1	1	1	1	2	2	4	4	1
Acetylene Tetrabromide	4	4	1	1	1	1	1	2	4	X	4	1

<b>Acetylene Tetrachloride</b>	4	4	1	1	1	1	1	2	4	X	4	1
<b>Acetylsalicylic Acid</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Acids, Non-organic</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Acids, Organic</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Aconitic Acid</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Acridine</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Acrolein</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Acrylic Acid</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Acrylonitrile</b>	4	4	4	3	1	1	3	4	3	4	4	4
<b>Adipic Acid</b>	1	1	2	X	1	1	2	X	X	X	X	X
<b>Aero Lubriplate</b>	1	1	4	1	1	1	2	1	2	1	1	4
<b>Aero Shell 17 Grease</b>	1	1	4	1	1	1	2	2	4	1	1	4
<b>Aero Shell 750</b>	2	2	4	1	1	1	2	4	4	2	4	4
<b>Aero Shell 7A Grease</b>	2	2	4	1	1	1	2	2	4	1	1	4
<b>Aero Shell IAC</b>	1	1	4	1	1	1	2	2	4	1	1	4
<b>Aerosafe 2300</b>	4	4	1	4	1	1	2	4	4	4	4	2
<b>Aerosafe 2300W</b>	4	4	1	4	1	1	2	4	4	4	4	2
<b>Aerozene 50 (50% Hydrazine 50% UDMH)</b>	3	3	1	4	3	2	2	4	4	X	4	1
<b>Air, Below 200° F</b>	2	2	1	1	1	1	1	1	2	1	2	1
<b>Air, 200 - 300° F</b>	3	3	2	1	1	1	1	2	4	2	3	2
<b>Air, 300 - 400° F</b>	4	4	4	1	1	1	2	4	4	4	4	4
<b>Air, 400 - 500° F</b>	4	4	4	3	2	2	3	4	4	4	4	4
<b>Aliphatic Dicarboxylic Acid</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Alkanes (Paraffin Hydrocarbons)</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Alkanesulfonic Acid</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Alkazene</b>	4	4	4	2	1	1	2	4	4	4	4	4
<b>Alkenes (Olefin Hydrocarbons)</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Alkyl Acetone</b>	3	3	1	3	2	1	X	1	1	4	4	1
<b>Alkyl Alcohol</b>	1	1	4	1	1	1	X	2	4	1	1	4

<b>Alkyl Amine</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Alkyl Aryl Sulfonates</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Alkyl Aryl Sulfonics</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Alkyl Benzene</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Alkyl Chloride</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Alkyl Sulfide *</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Alkyl naphthalene Sulfonic Acid</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Allyl Chloride</b>	2	2	4	1	1	1	X	1	X	X	X	X
<b>Allylidene Diacetate</b>	3	3	1	3	2	1	X	1	1	4	4	1
<b>Alpha Picoline</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Aluminum Acetate</b>	2	2	1	4	1	1	2	2	2	4	4	1
<b>Aluminum Bromide</b>	1	1	1	1	1	1	1	1	1	1	3	1
<b>Aluminum Chlorate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Aluminum Chloride</b>	1	1	1	1	1	1	1	1	1	1	3	1
<b>Aluminum Ethylate</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Aluminum Fluoride</b>	1	1	1	1	1	1	1	1	1	X	3	1
<b>Aluminum Fluorosilicate *</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Aluminum Formate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Aluminum Hydroxide</b>	2	X	1	2	1	1	1	X	X	X	X	X
<b>Aluminum Linoleate</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Aluminum Nitrate</b>	1	1	1	1	1	1	1	1	1	X	3	1
<b>Aluminum Oxalate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Aluminum Phosphate</b>	1	1	1	1	1	1	1	1	X	X	X	X
<b>Aluminum Potassium Sulfate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Aluminum Salts</b>	1	1	1	1	1	1	1	1	1	1	3	1
<b>Aluminum Sodium Sulfate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Aluminum Sulfate</b>	1	1	1	1	1	1	1	1	2	4	4	1
<b>Alums-NH3 -Cr -K</b>	1	1	1	4	1	1	2	1	1	4	X	1
<b>Ambrex 33 (Mobil)</b>	1	1	4	1	1	1	2	2	4	1	2	4

<b>Ambrex 830 (Mobil)</b>	1	1	3	1	1	1	2	2	4	1	1	3
<b>Amines-Mixed</b>	4	4	2	4	3	2	3	2	2	4	4	2
<b>Aminoanthraquinone</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Aminoazobenzene</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Aminobenzene Sulfonic Acid</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Aminobenzoic Acid</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Aminopyridine</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Aminosalicylic Acid</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Ammonia (Anhydrous)</b>	2	2	1	4	3	2	2	1	4	4	4	1
<b>Ammonia and Lithium Metal in Solution</b>	2	2	2	4	4	4	3	X	4	4	4	2
<b>Ammonia, Gas, Cold</b>	1	1	1	4	2	1	2	1	1	4	X	1
<b>Ammonia, Gas, Hot</b>	4	4	2	4	3	2	2	2	4	4	X	2
<b>Ammonia, Liquid (Anhydrous)</b>	2	2	1	4	3	2	2	1	4	4	4	1
<b>Ammonium Acetate</b>	3	3	1	3	2	1	X	1	1	4	4	1
<b>Ammonium Arsenate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Ammonium Benzoate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Ammonium Bicarbonate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Ammonium Bisulfite</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Ammonium Bromide</b>	1	1	1	1	1	1	1	1	1	X	1	1
<b>Ammonium Carbamate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Ammonium Carbonate</b>	4	4	1	1	1	1	1	1	1	4	4	1
<b>Ammonium Chloride, 2N</b>	1	1	1	1	1	1	1	1	1	X	1	1
<b>Ammonium Citrate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Ammonium Dichromate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Ammonium Diphosphate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Ammonium Fluoride</b>	1	1	1	1	1	1	1	1	1	X	1	1
<b>Ammonium Fluorosilicate *</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Ammonium Formate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Ammonium Hydroxide, 3 Molar</b>	1	1	1	3	2	2	2	1	2	4	4	1

<b>Ammonium Hydroxide, Concentrated</b>	4	4	1	4	3	2	2	1	3	4	4	1
<b>Ammonium Iodide</b>	1	1	1	1	1	1	1	1	1	X	1	1
<b>Ammonium Lactate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Ammonium Metaphosphate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Ammonium Molybdenate *</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Ammonium Nitrate, 2N</b>	1	1	1	X	X	X	2	1	1	2	X	1
<b>Ammonium Nitrite</b>	1	1	1	X	1	1	2	1	1	X	X	1
<b>Ammonium Oxalate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Ammonium Perchlorate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Ammonium Perchloride</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Ammonium Persulfate 10%</b>	4	4	1	X	X	X	2	1	4	4	4	1
<b>Ammonium Persulfate Solution</b>	4	4	1	X	1	1	2	X	4	4	4	1
<b>Ammonium Phosphate</b>	1	1	1	4	1	1	2	1	1	X	X	1
<b>Ammonium Phosphate, Dibasic</b>	1	1	1	X	1	1	2	1	1	X	X	1
<b>Ammonium Phosphate, Mono-Basic</b>	1	1	1	X	1	1	2	1	1	X	X	1
<b>Ammonium Phosphate, Tribasic</b>	1	1	1	X	1	1	2	1	1	X	X	1
<b>Ammonium Phosphite</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Ammonium Picrate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Ammonium Polysulfide</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Ammonium Salicylate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Ammonium Salts</b>	1	1	1	3	1	1	2	1	1	3	X	1
<b>Ammonium Sulfamate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Ammonium Sulfate</b>	1	1	1	4	1	1	2	1	2	4	X	1
<b>Ammonium Sulfate Nitrate</b>	1	1	1	4	1	1	2	1	2	4	X	1
<b>Ammonium Sulfide</b>	1	1	1	4	1	1	2	1	2	4	X	1
<b>Ammonium Sulfite</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Ammonium Thiocyanate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Ammonium Thioglycolate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Ammonium Thiosulfate</b>	3	3	1	3	1	1	X	1	1	4	4	1

<b>Ammonium Tungstate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Ammonium Valerate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Amyl Acetate</b>	1	1	3	4	1	1	3	4	4	4	4	3
<b>Amyl Alcohol</b>	2	2	1	2	1	1	1	2	2	4	4	1
<b>Amyl Borate</b>	1	1	4	1	1	1	2	1	4	X	X	4
<b>Amyl Butyrate</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Amyl Chloride</b>	X	X	4	1	1	1	2	4	4	4	X	4
<b>Amyl Chloronaphthalene</b>	4	4	4	1	1	1	2	4	4	4	X	4
<b>Amyl Cinnamic Aldehyde</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Amyl Laurate</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Amyl Mercaptan</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Amyl Naphthalene</b>	4	4	4	1	1	1	2	4	4	2	4	4
<b>Amyl Nitrate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Amyl Nitrite</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Amyl Phenol</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Amyl Propionate</b>	1	1	4	1	2	1	X	2	4	1	1	4
<b>Anderol, L- 826 (di-ester)</b>	2	2	4	1	1	1	2	4	4	2	4	4
<b>Anderol, L- 829 (di-ester)</b>	2	2	4	1	1	1	2	4	4	2	4	4
<b>Anderol, L-774 (di-ester)</b>	2	2	4	1	1	1	2	4	4	2	4	4
<b>ANG-25 (Di-ester Base) (TG749)</b>	2	2	4	1	1	1	2	4	4	2	4	4
<b>ANG-25 (Glyceral Ester)</b>	2	2	1	1	1	1	1	2	2	4	4	2
<b>Aniline</b>	4	4	2	3	1	1	2	4	4	4	4	2
<b>Aniline Dyes</b>	4	4	2	2	1	1	2	2	2	4	4	2
<b>Aniline Hydrochloride</b>	2	2	2	2	1	1	2	4	3	4	4	2
<b>Aniline Oil</b>	4	4	2	3	2	2	2	4	4	4	4	2
<b>Aniline Sulfate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Aniline Sulfite</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Animal Fats</b>	1	1	2	1	1	1	1	2	X	X	X	X
<b>Animal Oil (Lard Oil)</b>	1	1	2	1	1	1	2	2	4	1	2	2

<b>Anisole</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Anisoyl Chloride</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>AN-O-3 Grade M</b>	1	1	4	1	1	1	1	2	4	1	1	4
<b>AN-O-366</b>	1	1	4	1	1	1	2	2	4	1	1	4
<b>AN-O-6</b>	1	1	4	1	1	1	1	2	4	1	1	4
<b>Ansul Ether 161 or 181</b>	3	3	3	4	1	1	3	4	4	4	2	3
<b>Anthracene</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Anthranilic Acid</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Anthraquinone</b>	X	X	X	X	2	1	X	X	X	X	X	X
<b>Anti-freeze Solutions</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Antimony Chloride</b>	1	1	4	1	1	1	1	2	4	1	1	4
<b>Antimony Pentachloride</b>	1	1	4	1	1	1	1	2	4	1	1	4
<b>Antimony Pentafluoride</b>	X	X	X	X	2	2	X	X	X	X	X	X
<b>Antimony Sulfate</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Antimony Tribromide</b>	1	1	4	1	1	1	1	2	4	1	1	4
<b>Antimony Trichloride</b>	1	1	4	1	1	1	1	2	4	1	1	4
<b>Antimony Trifluoride</b>	1	1	4	1	1	1	1	2	4	1	1	4
<b>Antimony Trioxide</b>	1	1	4	1	1	1	1	2	4	1	1	4
<b>AN-VV-O-366b Hydr. Fluid</b>	1	1	4	1	1	1	1	2	4	2	2	4
<b>Aqua Regia</b>	4	3	3	2	2	2	3	4	X	X	X	X
<b>Arachidic Acid</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Argon</b>	1	1	1	1	1	1	1	1	1	1	1	1
<b>Aroclor, 1248</b>	3	3	2	1	1	1	1	4	4	4	4	2
<b>Aroclor, 1254</b>	4	4	2	1	1	1	1	4	4	4	4	4
<b>Aroclor, 1260</b>	1	1	X	1	1	1	1	1	1	4	4	1
<b>Aromatic Fuel -50%</b>	2	2	4	1	1	1	2	4	4	4	4	4
<b>Arsenic Acid</b>	1	1	1	1	1	1	1	1	1	3	3	1
<b>Arsenic Oxide</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Arsenic Trichloride</b>	1	1	4	4	1	1	X	1	X	X	X	X





<b>Bardol B</b>	4	4	4	1	1	1	2	4	4	4	4	4
<b>Barium Carbonate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Barium Chlorate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Barium Chloride</b>	1	1	1	1	1	1	1	1	1	1	1	1
<b>Barium Cyanide</b>	1	1	1	1	1	1	1	1	1	1	1	1
<b>Barium Hydroxide</b>	1	1	1	1	1	1	1	1	1	4	4	1
<b>Barium Iodide</b>	1	1	1	1	1	1	1	1	1	1	1	1
<b>Barium Nitrate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Barium Oxide</b>	1	1	1	1	1	1	1	1	1	4	4	1
<b>Barium Peroxide</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Barium Polysulfide</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Barium Salts</b>	1	1	1	1	1	1	1	1	1	1	1	1
<b>Barium Sulfate</b>	1	1	1	1	1	1	1	1	X	X	X	X
<b>Barium Sulfide</b>	1	1	1	1	1	1	1	1	2	4	1	1
<b>Bayol 35</b>	1	1	4	1	1	1	2	2	4	1	2	4
<b>Bayol D</b>	1	1	4	1	1	1	2	2	4	1	4	4
<b>Beer</b>	1	1	1	1	1	1	1	1	1	4	2	1
<b>Beet Sugar Liquids</b>	1	1	1	1	1	1	1	1		X	X	X
<b>Beet Sugar Liquors</b>	1	1	1	1	1	1	1	2	1	4	4	1
<b>Benzaldehyde</b>	4	4	1	4	1	1	2	4	4	4	4	1
<b>Benzaldehyde Disulfonic Acid</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Benzamide</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Benzanthrone</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Benzene</b>	4	4	4	1	1	1	2	4	4	4	4	4
<b>Benzene Hexachloride</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Benzenesulfonic Acid 10%</b>	4	4	4	1	1	1	2	2	4	4	4	4
<b>Benzidine</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Benzidine 3 Sulfonic Acid</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Benzil</b>	2	2	4	1	1	1	X	4	4	4	3	4

<b>Benzilic Acid</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Benzine (Ligroin)</b>	1	1	4	1	1	1	2	2	4	1	2	4
<b>Benzocatechol</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Benzochloride</b>	4	4	1	1	1	1	1	4	4	4	X	2
<b>Benzoic Acid</b>	4	4	4	1	1	1	2	4	4	4	4	4
<b>Benzoin</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Benzonitrile</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Benzophenone</b>	X	X	2	1	1	1	2	X	4	4	4	2
<b>Benzoquinone</b>	X	X	2	1	1	1	2	X	4	4	4	2
<b>Benzotrichloride</b>	4	4	1	1	1	1	1	4	X	X	X	X
<b>Benzotrifluoride</b>	4	4	1	1	1	1	1	4	X	X	X	X
<b>Benzoyl Chloride</b>	X	X	X	1	1	1	X	4	4	4	3	4
<b>Benzoyl Peroxide</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Benzoylsulfonilic Acid</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Benzyl Acetate</b>	3	3	1	3	2	1	X	1	1	4	4	1
<b>Benzyl Alcohol</b>	4	4	2	1	1	1	2	2	4	4	4	2
<b>Benzyl Amine</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Benzyl Benzoate</b>	4	4	4	1	1	1	2	4	4	4	4	2
<b>Benzyl Bromide</b>	4	4	4	1	1	1	2	4	4	4	4	4
<b>Benzyl Butyl Phthalate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Benzyl Chloride</b>	4	4	4	1	1	1	2	4	4	4	4	4
<b>Benzyl Phenol</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Benzyl Salicylate</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Beryllium Chloride</b>	1	1	1	1	1	1	1	3	3	3	3	1
<b>Beryllium Fluoride</b>	1	1	1	1	1	1	1	3	3	3	3	1
<b>Beryllium Oxide</b>	1	1	1	1	1	1	1	3	3	3	3	1
<b>Beryllium Sulfate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Bismuth Carbonate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Bismuth Nitrate</b>	3	3	1	3	1	1	X	1	1	4	4	1

<b>Bismuth Oxychloride</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Bittern</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Black Liquor</b>	2	X	1	1	4	3	1	1	X	X	X	X
<b>Black Point 77</b>	1	1	1	1	1	1	1	3	3	3	3	1
<b>Blast Furnace Gas</b>	4	4	4	1	1	1	2	4	4	4	4	4
<b>Bleach Liquor</b>	3	3	1	1	1	1	1	2	3	4	4	1
<b>Bleach Solutions</b>	X	X	1	1	1	1	X	X	X	X	X	X
<b>Borax</b>	2	2	1	1	1	1	1	4	2	2	1	1
<b>Borax Solutions</b>	X	X	1	1	1	1	X	X	X	X	X	X
<b>Bordeaux Mixture</b>	2	2	1	1	1	1	1	2	2	4	4	1
<b>Boric Acid</b>	1	1	1	1	1	1	1	1	1	4	1	1
<b>Boric Oxide</b>	3	3	1	3	2	1	X	1	1	4	4	1
<b>Borneol</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Bornyl Acetate</b>	2	2	4	1	2	1	X	4	4	4	3	4
<b>Bornyl Chloride</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Bornyl Formate</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Boron Fluids (HEF)</b>	2	2	4	1	1	1	2	4	4	4	4	4
<b>Boron Hydride</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Boron Phosphate</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Boron Tribromide</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Boron Trichloride</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Boron Trifluoride</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Boron Trioxide</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Brake Fluid DOT3 (Glycol Type)</b>	3	3	1	4	1	1	2	2	1	X	4	2
<b>Bray GG-130</b>	2	2	4	1	1	1	2	4	4	2	4	4
<b>Brayco 719-R (VV-H-910)</b>	3	3	1	4	1	1	2	2	X	4	4	2
<b>Brayco 885 (MIL-L-6085A)</b>	2	2	4	1	1	1	2	4	4	2	1	4
<b>Brayco 910</b>	2	2	1	4	1	1	2	2	2	3	3	1
<b>Bret 710</b>	2	2	1	4	1	1	2	2	2	3	3	1

<b>Brine</b>	1	1	1	1	1	1	X	X	X	X	X	X
<b>Brine (Seawater)</b>	1	1	3	1	1	1	1	4	X	X	X	X
<b>Brom - 113</b>	3	3	4	X	X	X	3	4	4	X	X	4
<b>Brom - 114</b>	2	2	4	2	1	1	3	2	4	X	X	4
<b>Bromic Acid</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Bromine</b>	4	4	4	1	1	1	2	4	4	4	4	4
<b>Bromine Pentafluoride</b>	4	4	4	4	2	2	3	4	4	4	4	4
<b>Bromine Trifluoride</b>	4	4	4	4	2	2	3	4	4	4	4	4
<b>Bromine Water</b>	4	4	2	1	1	1	3	4	4	4	4	4
<b>Bromobenzene</b>	4	4	4	1	1	1	2	4	4	4	4	4
<b>Bromobenzene Cyanide</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Bromochlorotrifluoroethane (Halothane)</b>	4	4	4	1	1	1	2	4	4	4	4	4
<b>Bromoform</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Bromomethane (Methyl Bromide)</b>	2	2	4	1	1	1	1	4	4	3	X	4
<b>Bromotrifluoroethylene (BFE)</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Bromotrifluoromethane (F-13B1)</b>	X	X	X	X	2	2	X	X	X	X	X	X
<b>Brucine Sulfate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Buffered Oxide Etchants</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Bunker Oil</b>	1	1	4	1	1	1	2	4	4	1	2	4
<b>Bunker's "C" (Fuel Oil)</b>	1	X	X	1	1	1	X	X	X	X	X	X
<b>Butadiene (Monomer)</b>	4	4	4	1	1	1	2	4	4	4	4	4
<b>Butane</b>	1	1	4	1	1	1	2	1	3	1	1	4
<b>Butane, 2, 2-Dimethyl</b>	1	1	4	1	1	1	2	2	3	1	4	4
<b>Butane, 2, 3-Dimethyl</b>	1	1	4	1	1	1	2	2	3	1	4	4
<b>Butanedial</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Butanol (Butyl Alcohol)</b>	1	1	2	1	1	1	1	1	1	4	4	2
<b>Butene 2-Ethyl (1-Butene 2-Ethyl)</b>	1	1	4	1	1	1	1	4	4	1	4	4
<b>Butter-Animal Fat</b>	1	1	1	1	1	1	1	2	4	1	1	2
<b>Butyl Acetate or n-Butyl Acetate</b>	4	4	2	4	1	1		4	4	4	4	2

<b>Butyl Acetyl Ricinoleate</b>	2	2	1	1	1	1	1	2	4	X	4	1
<b>Butyl Acrylate</b>	4	4	1	4	1	1	4	4	4	4	X	4
<b>Butyl Alcohol</b>	1	1	2	1	1	1	1	1	1	4	4	2
<b>Butyl Alcohol (Secondary)</b>	2	2	2	1	1	1	1	2	2	4	4	2
<b>Butyl Alcohol (Tertiary)</b>	2	2	2	1	1	1	1	2	2	4	4	2
<b>Butyl Amine or N-Butyl Amine</b>	1	1	3	4	1	1	3	4	4	4	4	4
<b>Butyl Benzoate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Butyl Benzoate or n-Butyl Benzoate</b>	4	4	1	1	1	1		4	2	4	X	1
<b>Butyl Benzolate</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Butyl Butyrate or n-Butyl Butyrate</b>	4	4	1	1	1	1		4	4	4	X	1
<b>Butyl Carbitol</b>	4	4	1	3	1	1	2	3	4	4	X	1
<b>Butyl Cellosolve</b>	3	3	2	4	1	1	2	3	4	4	4	2
<b>Butyl Cellosolve Acetate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Butyl Cellosolve Adipate</b>	4	4	2	2	1	1	2	4	4	4	4	2
<b>Butyl Chloride</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Butyl Ether or n-Butyl Ether</b>	3	3	3	4	1	1		4	4	4	3	3
<b>Butyl Glycolate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Butyl Lactate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Butyl Laurate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Butyl Mercaptan (Tertiary)</b>	4	4	4	1	1	1		4	4	4	4	4
<b>Butyl Methacrylate</b>	3	3	1	3	2	1	X	1	1	4	4	1
<b>Butyl Oleate</b>	4	4	2	1	1	1	2	4	4	X	X	2
<b>Butyl Oxalate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Butyl Stearate</b>	2	2	4	1	1	1	2	4	4	X	X	4
<b>Butylbenzoic Acid</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Butylene</b>	2	2	4	1	1	1	2	3	4	4	4	4
<b>Butyraldehyde</b>	4	4	2	4	1	1	2	4	4	4	4	2
<b>Butyric Acid</b>	4	4	2	2	1	1	1	4	4	4	X	2
<b>Butyric Anhydride</b>	3	3	1	3	1	1	X	1	1	4	4	1

<b>Butyrolactone</b>	3	3	1	3	2	1	X	1	1	4	4	1
<b>Butyryl Chloride</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>— C —</b>												
<b>Cadmium Chloride</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Cadmium Cyanide</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Cadmium Nitrate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Cadmium Oxide</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Cadmium Sulfate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Cadmium Sulfide</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Calcine Liquors</b>	1	1	1	1	1	1	1	X	X	4	4	1
<b>Calcium Acetate</b>	2	2	1	4	1	1	2	2	4	4	4	1
<b>Calcium Arsenate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Calcium Benzoate</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Calcium Bicarbonate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Calcium Bisulfide</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Calcium Bisulfite</b>	2	2	1	2	1	1	1	2	2	3	3	1
<b>Calcium Bromide</b>	1	1	1	1	1	1	1	1	1	1	1	1
<b>Calcium Carbide</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Calcium Carbonate</b>	1	1	1	1	1	1	1	1	1	3	3	1
<b>Calcium Chlorate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Calcium Chloride</b>	1	1	1	1	1	1	1	1	1	1	1	1
<b>Calcium Chromate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Calcium Cyanamide</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Calcium Cyanide</b>	1	1	1	X	1	1	1	1	1	X	X	1
<b>Calcium Fluoride</b>	1	1	1	1	1	1	1	1	1	1	1	1
<b>Calcium Gluconate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Calcium Hydride</b>	1	1	1	1	1	1	1	1	1	1	1	1
<b>Calcium Hydrosulfide</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Calcium Hydroxide</b>	1	1	1	1	1	1	1	1	1	4	2	1



<b>Capric Acid</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Caproic Acid</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Caproic Aldehyde</b>	X	X	2	4	1	1	3	X	X	4	4	2
<b>Caprolactam</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Capronaldehyde</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Carbamate</b>	3	3	2	1	1	1	1	2	4	4	4	2
<b>Carbazole</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Carbitol</b>	2	2	2	2	1	1	1	2	2	4	4	2
<b>Carbolic Acid (Phenol)</b>	4	4	2	1	1	1	1	4	4	4	3	2
<b>Carbon Bisulfide</b>	4	4	4	1	1	1	2	4	4	3	X	4
<b>Carbon Dioxide</b>	1	1	1	1	1	1	1	1	1	1	1	1
<b>Carbon Dioxide (Explosive Decompression Use)</b>	1	1	1	1	1	1	1	1	1	1	1	1
<b>Carbon Disulfide</b>	4	4	4	1	1	1	2	4	4	3	X	4
<b>Carbon Fluorides</b>	2	2	4	1	1	1	2	4	4	4	4	4
<b>Carbon Monoxide</b>	1	1	1	1	1	1	1	2	2	X	1	1
<b>Carbon Tetrabromide</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Carbon Tetrachloride</b>	2	2	4	1	1	1	2	4	4	4	4	4
<b>Carbon Tetrafluoride</b>	2	2	4	1	1	1	2	4	4	4	4	4
<b>Carbonic Acid</b>	2	2	1	1	1	1	1	1	2	1	1	1
<b>Casein</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Castor Oil</b>	1	1	2	1	1	1	1	1	1	1	1	2
<b>Caustic Lime</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Caustic Potash</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Caustic Soda (Sodium Hydroxide)</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Cellosolve</b>	4	4	2	4	1	1	3	4	4	4	4	2
<b>Cellosolve, Acetate</b>	4	4	2	4	1	1	2	4	4	4	4	2
<b>Cellosolve, Butyl</b>	4	4	2	4	1	1	2	4	4	4	4	2
<b>Celluguard</b>	1	1	1	1	1	1	1	1	1	3	4	1
<b>Cellulose Acetate</b>	3	3	1	3	2	1	X	1	1	4	4	1



<b>Cellulose Acetate Butyrate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Cellulose Ether</b>	3	3	1	3	2	1	X	1	1	4	4	1
<b>Cellulose Nitrate *</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Cellulose Tripropionate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Cellulube (Phosphate Esters)</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Cellutherm 2505A</b>	2	2	4	1	1	1	2	4	4	2	4	4
<b>Cerium Sulfate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Cerous Chloride</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Cerous Fluoride</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Cerous Nitrate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Cetane (Hexadecane)</b>	1	1	4	1	1	1	2	2	4	1	4	4
<b>Cetyl Alcohol</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Chaulmoogric Acid</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>China Wood Oil (Tung Oil)</b>	1	1	4	1	1	1	2	2	4	X	3	3
<b>Chloral</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Chloramine</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Chloranthraquinone</b>	2	2	4	1	2	1	X	4	4	4	3	4
<b>Chlordane</b>	2	2	4	1	1	1	2	3	4	X	X	4
<b>Chlorextol</b>	2	2	4	1	1	1	2	2	4	2	4	4
<b>Chloric Acid</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Chlorinated Solvents, Dry</b>	4	4	4	1	1	1	2	4	4	4	4	4
<b>Chlorinated Solvents, Wet</b>	4	4	4	1	1	1	2	4	4	4	4	4
<b>Chlorine (Dry)</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Chlorine (Plasma)</b>	X	X	X	X	3	2	X	X	X	X	X	X
<b>Chlorine (Wet)</b>	X	X	X	X	2	2	X	X	X	X	X	X
<b>Chlorine Dioxide</b>	4	4	3	1	1	1	2	4	4	4	4	3
<b>Chlorine Dioxide, 8% Cl as NaClO2 in solution</b>	4	4	4	1	1	1	2	4	4	4	4	4
<b>Chlorine Trifluoride</b>	4	4	4	4	2	2	4	4	4	4	4	4
<b>Chlorine Water</b>	3	3	2	1	1	1	1	4	X	X	X	X

<b>Chloro 1-Nitro Ethane (1-Chloro 1-Nitro Ethane)</b>	4	4	4	4	1	1	3	4	4	4	4	4
<b>Chloro Oxyfluorides</b>	X	X	X	X	2	2	X	X	X	X	X	X
<b>Chloro Xylenols</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Chloroacetaldehyde</b>	3	3	1	3	2	2	X	1	1	4	4	1
<b>Chloroacetic Acid</b>	4	4	2	4	1	1	2	4	4	4	4	2
<b>Chloroacetone</b>	4	4	1	4	2	1	2	4	4	4	4	2
<b>Chloroacetyl Chloride</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Chloroamino Benzoic Acid</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Chloroaniline</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Chlorobenzaldehyde</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Chlorobenzene</b>	4	4	4	1	1	1	2	4	4	4	4	4
<b>Chlorobenzene (Mono)</b>	4	4	4	1	1	1	2	4	4	4	4	4
<b>Chlorobenzene Chloride</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Chlorobenzene Trifluoride</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Chlorobenzochloride</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Chlorobenzotrifluoride</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Chlorobromo Methane</b>	4	4	2	1	1	1	1	4	4	4	4	2
<b>Chlorobromopropane</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Chlorobutadiene</b>	4	4	4	1	1	1	2	4	4	4	4	4
<b>Chlorobutane (Butyl Chloride)</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Chlorododecane</b>	4	4	4	1	1	1	2	4	4	4	4	4
<b>Chloroethane</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Chloroethane Sulfonic Acid</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Chloroethylbenzene</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Chloroform</b>	4	4	4	1	1	1	2	4	4	4	4	4
<b>Chlorohydrin</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Chloronaphthalene or o-Chloronaphthalene</b>	4	4	4	1	1	1	X	4	4	4	4	4
<b>Chloronitrobenzene</b>	3	3	1	3	1	1	X	1	1	4	4	1



<b>City Service #65 #120 #250</b>	1	1	4	1	1	1	2	2	4	1	2	4
<b>City Service Koolmoter-AP Gear Oil 140-EP Lube</b>	1	1	4	1	1	1	2	2	4	1	1	4
<b>City Service Pacemaker #2</b>	1	1	4	1	1	1	2	2	4	1	2	4
<b>Clorox</b>	2	X	2	1	1	1	X	X	X	X	X	X
<b>Coal Tar</b>	1	X	X	1	1	1	X	X	X	X	X	X
<b>Cobalt Chloride</b>	1	1	1	1	1	1	1	1	1	1	1	1
<b>Cobalt Chloride, 2N</b>	1	1	1	1	1	1	1	1	1	4	4	1
<b>Cobaltous Acetate</b>	3	3	1	3	2	1	X	1	1	4	4	1
<b>Cobaltous Bromide</b>	1	1	1	1	1	1	1	1	1	4	4	1
<b>Cobaltous Linoleate</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Cobaltous Naphthenate</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Cobaltous Sulfate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Coconut Oil</b>	1	1	3	1	1	1	2	3	4	1	3	3
<b>Cod Liver Oil</b>	1	1	1	1	1	1	1	2	4	1	1	1
<b>Codeine</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Coffee</b>	1	1	1	1	1	1	1	1	1	4	4	1
<b>Coke Oven Gas</b>	4	4	4	1	1	1	2	4	4	4	4	4
<b>Coliche Liquors</b>	2	2	2	X	X	X	2	1	2	X	X	2
<b>Convelex 10</b>	4	4	X	X	X	X	X	4	4	X	2	4
<b>Coolanol 20 25R 35R 40&amp; 45A (Monsanto)</b>	1	1	3	1	1	1	2	2	4	4	1	4
<b>Copper Acetate</b>	2	2	1	4	1	1	2	2	4	4	4	1
<b>Copper Ammonium Acetate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Copper Carbonate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Copper Chloride</b>	1	1	1	1	1	1	1	2	1	1	1	1
<b>Copper Cyanide</b>	1	1	1	1	1	1	1	1	1	1	1	1
<b>Copper Gluconate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Copper Naphthenate</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Copper Nitrate</b>	2	X	2	1	1	1	2	X	X	X	X	X

<b>Copper Oxide</b>	1	1	1	1	1	1	1	1	1	1	1	1
<b>Copper Salts</b>	1	1	1	1	1	1	1	1	1	1	1	1
<b>Copper Sulfate</b>	1	1	1	1	1	1	1	1	2	4	1	2
<b>Copper Sulfate 10%</b>	1	1	1	1	1	1	1	1	2	4	2	2
<b>Copper Sulfate 50%</b>	1	1	1	1	1	1	1	1	2	4	3	2
<b>Corn Oil</b>	1	1	3	1	1	1	2	3	4	1	1	3
<b>Cottonseed Oil</b>	1	1	3	1	1	1	2	3	4	1	1	3
<b>Creosote, Coal Tar</b>	1	1	4	1	1	1	2	2	4	1	3	4
<b>Creosote, Wood</b>	1	1	4	1	1	1	2	2	4	1	3	4
<b>Cresol (Methyl Phenol)</b>	X	X	X	1	1	1	X	X	X	X	X	X
<b>Cresols</b>	4	4	4	2	1	1	2	4	4	4	X	4
<b>Cresylic Acid</b>	4	4	4	1	1	1	2	4	4	4	4	4
<b>Crotonaldehyde</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Crotonic Acid</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Crude Oil</b>	2	2	4	1	1	1	2	4	4	1	X	4
<b>Cumaldehyde</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Cumene</b>	4	4	4	1	1	1	2	4	4	4	4	4
<b>Cumene Hydroperoxide</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Cupric Sulfate</b>	2	X	2	1	1	1	2	X	X	X	X	X
<b>Cutting Oil</b>	1	1	4	1	1	1	2	2	4	1	1	4
<b>Cyanamide</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Cyanides</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Cyanogen Chloride</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Cyanogen Gas</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Cyanohydrin</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Cyanuric Chloride</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Cyclohexane</b>	1	1	4	1	1	1	2	3	4	2	1	4
<b>Cyclohexanol</b>	1	1	4	1	1	1	2	2	4	X	X	4
<b>Cyclohexanone</b>	4	4	2	4	1	1	3	4	4	4	4	2

<b>Cyclohexene</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Cyclohexylamine</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Cyclohexylamine Carbonate</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Cyclohexylamine Laurate</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Cyclopentadiene</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Cyclopentane</b>	1	1	4	1	1	1	2	3	4	2	1	4
<b>Cyclopolyolefins</b>	1	1	4	1	1	1	2	3	4	2	1	4
<b>Cymene or p-Cymene</b>	4	4	4	1	1	1	X	4	4	4	4	4
<b>– D –</b>												
<b>DDT (Dichlorodiphenyltrichloroethane)</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Decalin</b>	4	4	4	1	1	1	2	4	4	X	X	4
<b>Decane</b>	1	1	4	1	1	1	2	3	4	1	2	4
<b>Delco Brake Fluid</b>	3	3	1	4	1	1	2	2	1	X	X	2
<b>Denatured Alcohol</b>	1	1	1	1	1	1	1	1	1	4	4	1
<b>Detergent, Water Solution</b>	1	1	1	1	1	1	1	2	2	4	4	1
<b>Developing Fluids (Photo)</b>	1	1	2	1	1	1	1	1	2	X	X	2
<b>Dexron</b>	1	1	4	1	1	1	2	2	4	1	2	4
<b>Dextrin</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Dextro Lactic Acid</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Dextron</b>	1	1	4	1	1	1	1	2	X	X	X	X
<b>Dextrose</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>DI Water</b>	2	X	1	2	1	1	X	1	1	4	4	1
<b>Diacetone</b>	4	4	1	4	1	1	2	4	4	4	4	1
<b>Diacetone Alcohol</b>	4	4	1	4	1	1	2	2	4	4	4	1
<b>Dialkyl Sulfates</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Diallyl Ether</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Diallyl Phthalate</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Diamylamine</b>	1	1	4	1	2	1	X	2	4	1	1	4
<b>Diazinon</b>	3	3	4	2	1	1	2	3	4	X	X	4

<b>Dibenzyl (sym-Diphenylethane)</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Dibenzyl Ether</b>	4	4	2	4	1	1	2	4	4	X	2	2
<b>Dibenzyl Sebacate</b>	4	4	2	2	1	1	2	4	4	4	2	2
<b>Diborane</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Dibromoethane</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Dibromoethyl Benzene</b>	4	4	4	1	1	1	2	4	4	4	4	4
<b>Dibutyl Cellosolve Adipate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Dibutyl Ether</b>	4	4	3	3	1	1	3	4	4	3	2	3
<b>Dibutyl Methylenedithio Glycolate</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Dibutyl Phthalate</b>	4	4	2	3	2	1	3	4	4	4	3	3
<b>Dibutyl Sebacate</b>	4	4	2	2	1	1	2	4	4	4	4	2
<b>Dibutyl Thioglycolate</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Dibutyl Thiourea</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Dibutylamine</b>	4	4	1	4	1	1	4	3	4	4	4	4
<b>Dichloroacetic Acid</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Dichloroaniline</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Dichlorobenzene or o-Dichlorobenzene</b>	4	4	4	1	1	1		4	4	4	4	4
<b>Dichlorobenzene or p-Dichlorobenzene</b>	4	4	4	1	1	1		4	4	4	4	4
<b>Dichlorobutane</b>	2	2	4	1	1	1	2	4	4	4	4	4
<b>Dichlorobutene</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Dichlorodiphenyl-Dichloroethane (DDD)</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Dichloroethane</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Dichloroethylene</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Dichlorohydrin</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Dichloroisopropyl Ether</b>	4	4	3	3	1	1	3	4	4	3	2	4
<b>Dichloromethane</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Dichlorophenol</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Dichlorophenoxyacetic Acid</b>	2	2	4	1	1	1	X	4	4	4	3	4

<b>Dichloropropane</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Dichloropropene</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Dichlorosilane</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Dicyclohexylamine</b>	1	1	4	4	1	1	4	4	4	4	4	4
<b>Dicyclohexylammonium Nitrate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Dieldrin</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Diesel Oil</b>	1	1	4	1	1	1	2	3	4	1	3	4
<b>Di-ester Lubricant MIL-L-7808</b>	2	2	4	1	1	1	2	4	4	2	4	4
<b>Di-ester Synthetic Lubricants</b>	2	2	4	1	1	1	2	4	4	2	4	4
<b>Diethanolamine (DEA)</b>	3	3	1	3	2	1	X	1	1	4	4	1
<b>Diethyl Benzene</b>	X	X	X	1	1	1	X	X	X	X	X	X
<b>Diethyl Carbonate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Diethyl Ether</b>	4	4	4	4	1	1	4	3	4	3	1	4
<b>Diethyl Phthalate</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Diethyl Sebacate</b>	2	2	2	2	1	1	2	4	4	4	4	2
<b>Diethyl Sulfate</b>	4	X	1	3	1	1	2	4	X	X	X	X
<b>Diethylamine</b>	2	X	1	4	1	1	X	1	1	4	4	1
<b>Diethylaniline</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Diethylene Glycol</b>	1	1	1	1	1	1	1	1	1	2	4	1
<b>Diethylenetriamine</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Difluorodibromomethane</b>	4	4	2	X	1	1	2	4	4	4	4	2
<b>Difluoroethane</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Difluoromonochloroethane</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Diglycol Chloroformate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Diglycolic Acid</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Dihydroxydiphenylsulfone</b>	3	3	1	3	2	1	X	1	1	4	4	1
<b>Diisobutyl Ketone</b>	X	X	1	X	2	1	1	X	X	X	X	1
<b>Diisobutylcarbinol</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Diisobutylene</b>	2	2	4	1	1	1	2	4	4	4	4	4



<b>Diisooctyl Sebacate</b>	3	3	3	2	1	1	2	4	4	4	4	4
<b>Diisopropyl Ether (DIPE)</b>	X	X	X	X	2	1	X	X	X	X	X	X
<b>Diisopropyl Ketone</b>	4	4	1	4	2	1	2	4	4	4	4	1
<b>Diisopropylbenzene</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Diisopropylidene Acetone</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Dimethyl Acetamide</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Dimethylaniline (Xylidine)</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Dimethyldisulfide (DMDS)</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Dimethyl Ether</b>	1	X	2	2	1	1	4	3	X	X	X	X
<b>Dimethyl Formaldehyde</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Dimethyl Formamide (DMF)</b>	2	2	1	4	1	1	2	3	4	4	4	2
<b>Dimethylhydrazine</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Dimethyl Phenyl Carbinol</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Dimethyl Phenyl Methanol</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Dimethyl Phthalate</b>	4	4	2	2	1	1	2	4	4	4	X	2
<b>Dimethyl Sulfoxide (DMSO)</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Dimethyl Terephthalate (DMT)</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Dimethylamine (DMA)</b>	2	2	1	4	1	1	2	2	2	4	3	2
<b>Dinitrochlorobenzene</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Dinitrogen Tetroxide</b>	X	X	X	X	2	2	X	X	X	X	X	X
<b>Dinitrotoluene (DNT)</b>	4	4	4	4	1	1	4	4	4	4	4	4
<b>Diocetyl Phthalate</b>	4	4	2	2	1	1	2	4	4	4	4	2
<b>Diocetyl Sebacate</b>	4	4	2	2	1	1	2	4	4	4	2	2
<b>Diocetylamine</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Dioxane</b>	4	4	2	4	1	1	3	4	4	4	4	2
<b>Dioxolane</b>	4	4	2	4	1	1	3	4	4	4	4	3
<b>Dipentene</b>	2	2	4	1	1	1	2	4	4	4	4	4
<b>Diphenyl</b>	4	4	4	1	1	1	2	4	4	4	4	4
<b>Diphenyl Oxides</b>	4	4	4	1	1	1	2	4	4	4	4	4

<b>Diphenylamine (DPA)</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Diphenylene Oxide</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Diphenylpropane</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Disilane</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Di-Tert-Butyl Peroxide</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Dodecylbenzene</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Dow Chemical 50-4</b>	X	X	1	4	3	2	2	2	1	X	X	2
<b>Dow Chemical ET378</b>	4	4	X	X	X	X	X	4	4	3	2	4
<b>Dow Chemical ET588</b>	3	3	1	4	3	2	2	2	1	X	X	2
<b>Dow Corning -11</b>	2	2	1	1	1	1	1	1	1	1	1	1
<b>Dow Corning 1208, 4050, 6620, F-60, XF-60</b>	1	1	1	1	1	1	1	1	X	X	X	X
<b>Dow Corning -1265 Fluorosilicone Fluid</b>	2	2	1	1	1	1	1	1	1	1	1	1
<b>Dow Corning -200</b>	2	2	1	1	1	1	1	1	1	1	1	1
<b>Dow Corning -220</b>	1	1	1	1	1	1	1	1	X	X	X	X
<b>Dow Corning -3</b>	2	2	1	1	1	1	X	1	1	1	1	1
<b>Dow Corning -33</b>	2	2	1	1	1	1	X	1	1	1	1	1
<b>Dow Corning -4</b>	2	2	1	1	1	1	X	1	1	1	1	1
<b>Dow Corning -44</b>	2	2	1	1	1	1	X	1	1	1	1	1
<b>Dow Corning -5</b>	2	2	1	1	1	1	X	1	1	1	1	1
<b>Dow Corning -510</b>	2	2	1	1	1	1	X	1	1	1	1	1
<b>Dow Corning -55</b>	2	2	1	1	1	1	X	1	1	1	1	1
<b>Dow Corning -550</b>	2	2	1	1	1	1	X	1	1	1	1	1
<b>Dow Corning -704</b>	2	2	1	1	1	1	X	1	1	1	1	1
<b>Dow Corning -705</b>	2	2	1	1	1	1	X	1	1	1	1	1
<b>Dow Corning -710</b>	2	2	1	1	1	1	X	1	1	1	1	1
<b>Dow Corning F-61</b>	1	1	1	1	1	1	1	1	X	X	X	X
<b>Dow Guard</b>	1	1	1	1	1	1	X	1	1	3	3	1
<b>Dowanol P Mix</b>	X	X	X	X	1	1	X	X	X	X	X	X

<b>Dowtherm, 209</b>	3	3	1	4	1	1	X	2	X	X	X	2
<b>Dowtherm, A</b>	4	4	4	1	1	1	X	4	4	4	4	4
<b>Dowtherm, E</b>	4	4	4	1	1	1	X	4	4	4	4	4
<b>Drinking Water</b>	1	1	1	1	1	1	X	2	1	4	4	1
<b>Dry Cleaning Fluids</b>	3	3	4	1	1	1	X	4	4	4	4	4
<b>DTE 20 Series, Mobil</b>	2	2	4	1	1	1	2	1	X	2	1	4
<b>DTE named series, Mobil, light-heavy</b>	1	1	4	1	1	1	2	2	4	X	1	4
<b>— E —</b>												
<b>Elco 28-EP lubricant</b>	1	1	4	1	1	1	X	3	4	1	1	4
<b>Epichlorohydrin</b>	4	4	2	4	1	1	X	4	4	4	4	2
<b>Epoxy Resins</b>	X	X	1	4	1	1	X	1	X	X	X	1
<b>Erucic Acid</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Esam-6 Fluid</b>	X	X	1	4	1	1	X	2	1	X	X	2
<b>Esso Fuel 208</b>	1	1	4	1	1	1	X	2	4	1	4	4
<b>Esso Golden Gasoline</b>	2	2	4	1	1	1	X	4	4	4	4	4
<b>Esso Motor Oil</b>	1	1	4	1	1	1	X	3	4	1	4	4
<b>Esso Transmission Fluid (Type A)</b>	1	1	4	1	1	1	X	2	4	1	3	4
<b>Esso WS2812 (MIL-L-7808A)</b>	1	1	4	1	1	1	X	4	4	2	4	4
<b>Esso XP90-EP Lubricant</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Esstic 42, 43</b>	1	1	4	1	1	1	X	2	4	1	2	4
<b>Ethane</b>	1	1	4	1	1	1	X	2	4	1	3	4
<b>Ethanol</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Ethanol Amine</b>	2	2	1	4	1	1	X	2	2	4	3	2
<b>Ethers</b>	4	4	3	3	1	1	X	4	4	3	2	4
<b>Ethoxyethyl Acetate (EGMEEA)</b>	3	3	1	3	2	1	X	1	1	4	4	1
<b>Ethyl Acetate-Organic Ester</b>	4	4	2	4	2	1	X	4	4	4	4	2
<b>Ethyl Acetoacetate</b>	4	4	2	4	1	1	X	4	3	4	4	2
<b>Ethyl Acrylate</b>	4	4	2	4	1	1	X	4	4	4	4	2
<b>Ethyl Alcohol</b>	3	3	1	3	1	1	X	1	1	4	4	1

<b>Ethyl Ammonium Dichloride</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Ethyl Benzene</b>	4	4	4	1	1	1	X	4	4	4	4	4
<b>Ethyl Benzoate</b>	4	4	4	1	1	1	X	4	4	4	4	4
<b>Ethyl Bromide</b>	2	2	4	1	1	1	X	4	X	X	X	4
<b>Ethyl Cellosolve</b>	4	4	2	4	1	1	X	4	4	4	4	2
<b>Ethyl Cellulose</b>	2	2	2	4	1	1	X	2	2	4	2	2
<b>Ethyl Chloride</b>	1	1	3	1	1	1	X	4	4	3	2	4
<b>Ethyl Chlorocarbonate</b>	4	4	2	1	1	1	X	4	4	4	4	4
<b>Ethyl Chloroformate</b>	4	4	2	4	1	1	X	4	4	4	4	3
<b>Ethyl Ether</b>	3	3	3	4	1	1	X	4	4	4	2	3
<b>Ethyl Formate</b>	4	4	2	1	1	1	X	2	4	X	X	2
<b>Ethyl Hexanol</b>	1	1	1	1	1	1	X	1	1	4	4	1
<b>Ethyl Lactate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Ethyl Mercaptan</b>	4	4	X	2	1	1	X	3	4	X	X	4
<b>Ethyl Nitrite</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Ethyl Oxalate</b>	4	4	1	2	1	1	X	4	4	4	X	4
<b>Ethyl Pentachlorobenzene</b>	4	4	4	1	1	1	X	4	4	4	4	4
<b>Ethyl Pyridine</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Ethyl Silicate</b>	1	1	1	1	1	1	X	1	2	X	X	1
<b>Ethyl Stearate</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Ethyl Sulfate</b>	X	X	1	4	1	1	1	X	X	X	X	X
<b>Ethyl Tertiary Butyl Ether</b>	X	X	X	X	2	1	X	X	X	X	X	X
<b>Ethyl Valerate</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Ethylacrylic Acid</b>	4	4	2	X	X	X	X	2	4	4	4	2
<b>Ethylamine</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Ethylcyclopentane</b>	1	1	4	1	1	1	X	3	4	2	1	4
<b>Ethylene</b>	3	2	4	2	1	1	X	4	4	4	4	4
<b>Ethylene Chloride</b>	4	4	4	2	1	1	X	4	4	4	4	4
<b>Ethylene Chlorohydrin</b>	4	4	2	1	1	1	X	2	2	4	4	2

<b>Ethylene Cyanohydrin</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Ethylene Diamine</b>	1	1	1	4	2	2	X	1	2	4	4	1
<b>Ethylene Dibromide</b>	4	4	3	1	1	1	X	4	4	4	4	3
<b>Ethylene Dichloride</b>	4	4	3	1	1	1	X	4	4	4	4	3
<b>Ethylene Glycol</b>	1	1	1	1	1	1	X	1	1	4	2	1
<b>Ethylene Hydrochloride</b>	4	4	3	1	1	1	X	4	4	4	4	3
<b>Ethylene Oxide</b>	4	4	3	4	1	1	X	4	4	4	4	3
<b>Ethylene Oxide, (12%) and Freon 12 (80%)</b>	3	3	2	4	4	2	X	4	4	4	4	2
<b>Ethylene Trichloride</b>	4	4	3	1	1	1	X	4	4	4	4	3
<b>Ethyleneimine</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Ethylmorpholene Stannous Octotatate (50/50 mixture)</b>	4	4	2	4	1	1	X	X	4	X	X	2
<b>Ethylmorpholine</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Ethylsulfuric Acid</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>— F —</b>												
<b>F-60 Fluid (Dow Corning)</b>	1	1	1	1	1	1	X	1	1	1	1	1
<b>F-61 Fluid (Dow Corning)</b>	1	1	1	1	1	1	X	1	1	1	1	1
<b>Fatty Acids</b>	2	2	3	1	1	1	X	2	4	X	X	3
<b>FC-43 Heptacosofluorotri-butylamine</b>	1	1	1	1	1	1	X	1	4	X	X	1
<b>FC75 &amp; FC77 (Fluorocarbon)</b>	1	1	1	2	1	1	X	1	4	X	X	1
<b>Ferric Acetate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Ferric Ammonium Sulfate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Ferric Chloride</b>	1	1	1	1	1	1	X	2	1	1	1	1
<b>Ferric Ferrocyanide</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Ferric Hydroxide</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Ferric Nitrate</b>	1	1	1	1	1	1	X	1	1	1	1	1
<b>Ferric Persulfate</b>	1	1	1	1	1	1	1	1	X	X	X	X
<b>Ferric Sulfate</b>	1	1	1	1	1	1	1	1	X	X	X	X
<b>Ferrous Ammonium Citrate</b>	3	3	1	3	1	1	X	1	1	4	4	1

<b>Ferrous Ammonium Sulfate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Ferrous Carbonate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Ferrous Chloride</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Ferrous Iodide</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Ferrous Sulfate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Ferrous Tartrate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Fish Oil</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Fisher Reagent</b>	X	X	2	X	X	X	X	X	X	X	X	X
<b>Fluorinated Cyclic Ethers</b>	X	X	1	X	1	1	X	X	X	X	X	X
<b>Fluorine (Gas)</b>	X	X	X	X	2	2	X	X	X	X	X	X
<b>Fluorine (Liquid)</b>	4	4	4	2	2	2	X	X	X	X	X	X
<b>Fluorobenzene</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Fluoroboric Acid</b>	1	X	1	X	1	1	X	X	X	X	X	X
<b>Fluorocarbon Oils</b>	X	X	1	X	2	2	X	X	X	X	X	X
<b>Fluoroform (Trifluoromethane)</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Fluorolube</b>	1	1	1	2	1	1	X	1	4	X	X	1
<b>Fluorophosphoric Acid</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Fluorosilicic Acid</b>	1	1	2	2	1	1	1	1	X	X	X	X
<b>Fluorosulfonic Acid</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Formaldehyde</b>	3	3	2	4	1	1	X	3	3	4	4	2
<b>Formamide</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Formic Acid</b>	X	X	1	4	1	1	3	1	X	X	X	X
<b>Freon, 11</b>	4	4	4	2	2	2	X	4	4	4	X	4
<b>Freon, 112 (Tetrachlorodifluoroethane)</b>	2	2	4	1	1	1	X	2	4	X	X	4
<b>Freon, 113</b>	1	1	4	2	4	3	X	1	2	X	1	4
<b>Freon, 113 + High and Low Aniline Oil</b>	1	X	X	X	4	3	4	X	X	X	X	X
<b>Freon, 114</b>	1	1	1	1	2	2	X	1	1	X	X	1
<b>Freon, 114B2</b>	2	2	4	2	2	2	X	2	4	X	X	4
<b>Freon, 115, 116</b>	1	1	1	2	2	2	X	1	1	X	X	1

<b>Freon, 12</b>	2	2	3	3	2	2	X	1	1	X	1	3
<b>Freon, 12 and ASTM Oil #2 (50/50 Mixture)</b>	2	2	4	1	1	1	X	3	4	X	X	4
<b>Freon, 12 and Suniso 4G (50/50 Mixture)</b>	2	2	4	1	1	1	X	3	4	X	X	4
<b>Freon, 123 (Dichlorotrifluoroethane)</b>	X	X	X	X	4	4	X	X	X	X	X	X
<b>Freon, 124 (Chlorotetrafluoroethane)</b>	X	X	X	X	2	2	X	X	X	X	X	X
<b>Freon, 125 (Pentafluoroethane)</b>	X	X	X	X	2	2	X	X	X	X	X	X
<b>Freon, 13</b>	1	1	1	1	1	1	X	1	1	X	X	1
<b>Freon, 134a (Tetrafluoroethane)</b>	X	X	X	X	4	3	X	X	X	X	X	X
<b>Freon, 13B1</b>	1	1	1	1	2	2	X	1	1	X	X	1
<b>Freon, 14</b>	1	1	1	1	1	1	X	1	1	X	1	1
<b>Freon, 141b (Dichlorofluoroethane)</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Freon, 142b</b>	2	2	4	2	4	3	4	1	X	X	X	X
<b>Freon, 152a (Difluoroethane)</b>	X	X	X	X	4	3	X	X	X	X	X	X
<b>Freon, 21</b>	4	4	4	4	1	1	X	3	4	X	X	4
<b>Freon, 218</b>	1	X	1	1	1	1	X	X	X	X	X	X
<b>Freon, 22 (Chlorodifluoroethane)</b>	4	4	3	4	1	1	X	1	1	2	4	3
<b>Freon, 22 and ASTM Oil #2 (50/50 Mixture)</b>	4	4	4	2	1	1	X	2	4	2	X	4
<b>Freon, 23 (Fluoroform)</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Freon, 31</b>	4	4	1	4	2	2	X	1	2	X	X	1
<b>Freon, 32</b>	1	1	1	4	2	2	X	1	1	X	X	1
<b>Freon, 502</b>	2	2	1	2	2	2	X	1	1	X	X	1
<b>Freon, BF (R112)</b>	2	2	4	1	2	2	X	2	4	X	X	4
<b>Freon, C316</b>	1	X	1	1	2	2	X	X	X	X	X	X
<b>Freon, C318</b>	1	1	1	2	2	2	X	1	1	X	X	1
<b>Freon, K-142b</b>	1	1	1	4	4	4	X	1	1	X	X	1
<b>Freon, K-152a</b>	1	1	1	4	4	4	X	1	1	X	X	1
<b>Freon, MF (R11)</b>	2	2	4	2	2	2	X	4	4	X	3	4
<b>Freon, PCA (R113)</b>	1	1	4	2	1	1	X	1	2	X	1	4

<b>Freon, TA</b>	1	X	2	3	2	2	X	X	X	X	X	X
<b>Freon, TC</b>	1	X	2	1	2	2	X	X	X	X	X	X
<b>Freon, TF (R113)</b>	1	1	4	2	2	2	X	1	2	X	1	4
<b>Freon, TMC</b>	2	X	3	1	2	2	X	X	X	X	X	X
<b>Freon, T-P35</b>	1	X	1	1	2	2	X	X	X	X	X	X
<b>Freon, T-WD602</b>	2	X	2	1	2	2	X	X	X	X	X	X
<b>Fuel Oil, #6</b>	2	2	4	1	1	1	X	4	4	1	2	4
<b>Fuel Oil, 1, and 2</b>	1	1	4	1	1	1	X	2	4	1	2	4
<b>Fuel Oil, Acidic</b>	1	1	4	1	1	1	X	2	4	1	2	4
<b>Fumaric Acid</b>	1	1	2	1	1	1	X	2	2	4	X	4
<b>Fuming Sulphuric Acid (20/25% Oleum)</b>	4	4	4	1	1	1	X	4	4	4	4	4
<b>Furaldehyde</b>	4	4	2	4	2	2	4	4	X	X	X	X
<b>Furan (Furfuran)</b>	4	4	3	1	1	1	X	4	4	4	X	4
<b>Furfural (Furfuraldehyde)</b>	4	4	2	4	1	1	X	4	4	4	3	2
<b>Furfuraldehyde</b>	4	4	2	4	1	1	X	4	4	4	3	2
<b>Furfuryl Alcohol</b>	4	4	2	X	1	1	X	4	4	4	4	2
<b>Furoic Acid</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Furyl Carbinol</b>	4	4	2	X	X	X	X	4	4	4	4	2
<b>Fyrquel 150 220 300 550</b>	4	4	1	1	1	1	X	4	4	4	4	1
<b>Fyrquel 90, 100, 500</b>	4	4	1	1	1	1	1	X	X	X	X	X
<b>Fyrquel A60</b>	4	4	2	4	1	1	2	4	X	X	X	X
<b>— G —</b>												
<b>Gallic Acid</b>	2	2	2	1	1	1	X	2	2	4	4	2
<b>Gasoline</b>	1	1	4	1	1	1	X	4	4	4	2	4
<b>Gelatin</b>	1	1	1	1	1	1	X	1	1	4	4	1
<b>Germane (Germanium Tetrahydride)</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Girling Brake Fluid</b>	3	3	1	4	1	1	X	2	1	X	X	2
<b>Glauber's Salt</b>	4	4	2	1	1	1	X	2	4	4	X	2
<b>Gluconic Acid</b>	3	3	1	3	1	1	X	1	1	4	4	1



<b>Glucose</b>	1	1	1	1	1	1	X	1	1	X	4	1
<b>Glue</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Glutamic Acid</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Glycerine (Glycerol)</b>	1	1	1	1	1	1	X	1	1	4	4	1
<b>Glycerol Dichlorohydrin</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Glycerol Monochlorohydrin</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Glycerol Triacetate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Glycerophosphoric Acid</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Glyceryl Phosphate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Glycidol</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Glycol Monoether</b>	X	X	X	X	2	1	X	X	X	X	X	X
<b>Glycolic Acid</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Glycols</b>	1	1	1	1	1	1	X	1	1	4	4	1
<b>Glyoxylic Acid</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Grease Petroleum Base</b>	1	1	4	1	1	1	X	3	4	1	1	4
<b>Green Sulfate Liquor</b>	2	2	1	1	1	1	X	2	2	4	4	1
<b>Gulf Endurance Oils</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Gulf FR Fluids (Emulsion)</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Gulf FR G-Fluids</b>	1	1	1	1	1	1	X	1	1	4	2	1
<b>Gulf FR P-Fluids</b>	4	4	2	2	1	1	X	4	4	4	4	2
<b>Gulf Harmony Oils</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Gulf High Temperature Grease</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Gulf Legion Oils</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Gulf Paramount Oils</b>	1	1	4	1	1	1	X	2	4	1	2	4
<b>Gulf Security Oils</b>	1	1	4	1	1	1	X	2	4	1	2	4
<b>Gulfcrown Grease</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>— H —</b>												
<b>Halothane</b>	4	4	4	1	1	1	X	4	4	4	4	4
<b>Halowax Oil</b>	4	4	4	1	1	1	X	4	4	X	X	4

<b>Hannifin Lube A</b>	1	1	4	1	1	1	X	1	2	1	1	4
<b>Heavy Water</b>	1	1	1	X	1	1	X	2	1	4	4	1
<b>HEF-2 (High Energy Fuel)</b>	2	2	4	1	1	1	X	4	4	4	4	4
<b>Helium</b>	1	1	1	1	1	1	X	1	1	1	1	1
<b>Heptachlor</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Heptachlorobutene</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Heptaldehyde (Heptanal)</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Heptane or n-Heptane</b>	1	1	4	1	1	1	X	2	4	1	2	4
<b>Heptanoic Acid</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Hexachloroacetone</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Hexachlorobutadiene</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Hexachlorobutene</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Hexachloroethane</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Hexaethyl Tetraphosphate</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Hexafluoroethane (F-116)</b>	X	X	X	X	2	2	X	X	X	X	X	X
<b>Hexafluoroxylyene</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Hexafluoroxylyene</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Hexaldehyde or n-Hexaldehyde</b>	4	4	1	4	1	1	X	1	4	X	2	2
<b>Hexamethyldisilizane</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Hexamethylene (Cyclohexane)</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Hexamethylene Diammonium Adipate</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Hexamethylenediamine</b>	3	3	1	3	2	2	X	1	1	4	4	1
<b>Hexamethylenetetramine</b>	3	3	1	3	2	2	X	1	1	4	4	1
<b>Hexane or n-Hexane</b>	1	1	4	1	1	1	X	2	4	1	2	4
<b>Hexene-1 or n-Hexene-1</b>	2	2	4	1	1	1	X	2	4	1	2	4
<b>Hexone (Methyl Isobutyl Ketone)</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Hexyl Acetate</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Hexyl Alcohol</b>	1	1	3	1	1	1	X	2	1	4	4	3
<b>Hexylene Glycol</b>	3	3	1	3	1	1	X	1	1	4	4	1

<b>Hexylresorcinol</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>High Viscosity Lubricant, H2</b>	1	1	1	1	1	1	X	2	1	4	4	1
<b>High Viscosity Lubricant, U4</b>	1	1	1	1	1	1	X	2	1	4	4	1
<b>HiLo MS #1</b>	4	4	1	4	1	1	X	4	4	4	4	2
<b>Houghto-Safe 1010 phosphate ester</b>	4	4	1	1	1	1	X	4	4	4	X	1
<b>Houghto-Safe 1055 phosphate ester</b>	4	4	1	1	1	1	X	4	4	4	X	1
<b>Houghto-Safe 1120 phosphate ester</b>	4	4	2	1	1	1	X	4	4	4	4	1
<b>Houghto-Safe 271 (Water &amp; Glycol Base)</b>	1	1	1	2	1	1	X	2	1	4	4	2
<b>Houghto-Safe 416 &amp; 500 Series</b>	1	1	1	X	X	X	X	X	X	X	X	X
<b>Houghto-Safe 5040 (Water/Oil emulsion)</b>	1	1	4	1	1	1	X	2	4	4	4	4
<b>Houghto-Safe 620 Water/Glycol</b>	1	1	1	2	1	1	X	2	1	4	4	2
<b>Hydraulic Oil (Petroleum Base, Industrial)</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Hydraulic Oils (Synthetic Base)</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Hydrazine</b>	2	2	1	4	1	1	X	2	2	X	4	1
<b>Hydrazine (Anhydrous)</b>	4	4	2	4	1	1	2	2	1	4	4	2
<b>Hydrazine Dihydrochloride</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Hydrazine Hydrate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Hydriodic Acid</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Hydroabietyl Alcohol</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Hydrobromic Acid</b>	4	4	1	1	1	1	X	4	4	4	4	1
<b>Hydrobromic Acid 40%</b>	4	4	1	1	1	1	X	2	4	4	4	1
<b>Hydrocarbons, Saturated</b>	1	1	4	1	1	1	X	2	4	1	2	4
<b>Hydrochloric Acid (cold) 37%</b>	4	X	3	1	1	1	1	4	X	X	X	X
<b>Hydrochloric Acid (hot) 37%</b>	4	X	3	1	1	1	X	4	4	4	3	4
<b>Hydrochloric Acid, 3 Molar to 158°F</b>	2	2	1	1	1	1	X	2	3	3	4	1
<b>Hydrochloric Acid, Concentrated Room Temp.</b>	2	2	2	1	1	1	X	X	X	X	X	X
<b>Hydrochloric Acid, Concentrated to 158°F</b>	4	4	4	1	1	1	X	4	4	4	4	4

<b>Hydrocyanic Acid</b>	2	2	1	1	1	1	X	2	2	4	X	1
<b>Hydro-Drive MIH-10 (Petroleum Base)</b>	1	1	4	1	1	1	X	2	4	1	2	4
<b>Hydro-Drive MIH-50 (Petroleum Base)</b>	1	1	4	1	1	1	X	2	4	1	2	4
<b>Hydrofluoric Acid (Anhydrous)</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Hydrofluoric Acid (conc.) Cold</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Hydrofluoric Acid (conc.) Hot</b>	4	X	4	3	1	1	X	X	X	X	X	X
<b>Hydrofluorosilicic Acid</b>	2	2	1	1	1	1	X	2	2	X	X	1
<b>Hydrogen Bromide (Anhydrous)</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Hydrogen Chloride (Anhydrous)</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Hydrogen Chloride gas</b>	4	X	1	1	1	1	1	2	X	X	X	X
<b>Hydrogen Cyanide</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Hydrogen Fluoride</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Hydrogen Fluoride (Anhydrous)</b>	4	4	1	4	1	1	2	X	4	4	X	1
<b>Hydrogen Gas, Cold</b>	1	1	1	1	1	1	X	1	2	2	1	1
<b>Hydrogen Gas, Hot</b>	1	1	1	1	1	1	X	1	2	2	1	1
<b>Hydrogen Iodide (Anhydrous)</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Hydrogen Peroxide</b>	2	2	1	1	1	1	X	1	2	4	X	1
<b>Hydrogen Peroxide 90%</b>	4	4	3	1	1	1	X	4	4	4	X	3
<b>Hydrogen Selenide</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Hydrogen Sulfide, Dry, Cold</b>	1	1	1	4	1	1	X	1	1	4	X	1
<b>Hydrogen Sulfide, Dry, Hot</b>	4	4	1	4	1	1	X	2	4	4	X	1
<b>Hydrogen Sulfide, Wet, Cold</b>	4	4	1	4	1	1	X	1	4	4	X	1
<b>Hydrogen Sulfide, Wet, Hot</b>	4	4	1	4	1	1	X	2	4	4	X	1
<b>Hydrolube-Water/Ethylene Glycol</b>	1	1	1	1	1	1	X	2	1	4	4	2
<b>Hydrooxycitronellal</b>	X	X	X	1	1	1	X	4	4	4	3	4
<b>Hydroquinol</b>	4	4	4	1	2	2	X	4	X	X	X	X
<b>Hydroquinone</b>	3	3	2	2	1	1	X	4	4	4	X	4
<b>Hydroxyacetic Acid</b>	3	3	1	3	1	1	X	1	1	4	4	1

<b>Hydyne</b>	2	2	1	4	1	1	X	2	2	4	X	2
<b>Hyjet</b>	4	4	1	4	1	1	2	4	X	X	X	X
<b>Hyjet IV and IVA</b>	4	4	1	4	1	1	X	4	4	4	4	2
<b>Hyjet S4</b>	4	X	1	4	1	1	2	4	X	X	X	X
<b>Hyjet W</b>	4	4	1	4	1	1	2	4	X	X	X	X
<b>Hypochlorous Acid</b>	4	4	2	1	1	1	X	4	4	4	X	2
<b>— I —</b>												
<b>Indole</b>	X	X	X	1	1	1	X	4	4	4	3	4
<b>Industron FF44</b>	1	1	4	1	1	1	X	2	4	1	2	4
<b>Industron FF48</b>	1	1	4	1	1	1	X	2	4	1	2	4
<b>Industron FF53</b>	1	1	4	1	1	1	X	2	4	1	2	4
<b>Industron FF80</b>	1	1	4	1	1	1	X	2	4	1	2	4
<b>Insulin</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Iodic Acid</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Iodine</b>	2	2	2	1	1	1	X	4	2	X	X	2
<b>Iodine Pentafluoride</b>	4	4	4	4	2	2	X	4	4	4	4	4
<b>Iodoform</b>	X	X	4	1	1	1	X	4	4	4	3	4
<b>Isoamyl Acetate</b>	3	3	1	3	2	1	X	1	1	4	4	1
<b>Isoamyl Butyrate</b>	3	3	1	3	2	1	X	1	1	4	4	1
<b>Isoamyl Valerate</b>	3	3	1	3	2	1	X	1	1	4	4	1
<b>Isoboreol</b>	X	X	X	1	1	1	X	4	4	4	3	4
<b>Isobutane</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Isobutyl Acetate</b>	3	3	1	3	2	1	X	1	1	4	4	1
<b>Isobutyl Alcohol</b>	2	2	1	1	1	1	X	1	2	4	4	1
<b>Isobutyl Chloride</b>	4	4	4	1	1	1	4	4	X	X	X	X
<b>Isobutyl Ether</b>	2	2	4	4	2	1	4	3	X	X	X	X
<b>Isobutyl Methyl Ketone</b>	3	3	1	3	2	1	X	1	1	4	4	1
<b>Isobutyl n-Butyrate</b>	4	4	1	1	1	1	X	4	4	4	X	1
<b>Isobutyl Phosphate</b>	3	3	1	3	1	1	X	1	1	4	4	1



<b>Kel F Liquids</b>	1	1	1	2	1	1	X	X	1	X	X	1
<b>Kerosene (Similar to RP-1 and JP-1)</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Keystone #87HX-Grease</b>	1	1	4	1	1	1	X	4	4	1	1	4
<b>— L —</b>												
<b>Lacquer Solvents</b>	4	4	4	4	1	1	X	4	4	4	4	4
<b>Lacquers</b>	4	4	4	4	1	1	X	4	4	4	4	4
<b>Lactams-Amino Acids</b>	4	4	2	4	1	1	X	2	4	X	X	2
<b>Lactic Acid, Cold</b>	1	1	1	1	1	1	X	1	1	4	X	1
<b>Lactic Acid, Hot</b>	4	4	4	1	1	1	X	4	4	4	X	4
<b>Lactones (Cyclic Esters)</b>	4	4	2	4	1	1	X	4	4	4	4	2
<b>Lard Animal Fat</b>	1	1	2	1	1	1	X	2	4	1	1	2
<b>Lauric Acid</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Lavender Oil</b>	2	2	4	1	1	1	1	4	X	X	X	X
<b>LB 135</b>	1	1	1	1	1	1	1	1	X	X	X	X
<b>Lead (Molten)</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Lead Acetate</b>	2	2	1	4	1	1	X	2	4	4	4	1
<b>Lead Arsenate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Lead Azide</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Lead Bromide</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Lead Carbonate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Lead Chloride</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Lead Chromate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Lead Dioxide</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Lead Linoleate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Lead Naphthenate</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Lead Nitrate</b>	1	1	1	X	1	1	X	1	1	X	X	1
<b>Lead Oxide</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Lead Sulfamate</b>	2	2	1	1	1	1	X	1	2	4	X	1
<b>Lehigh X1169</b>	1	1	4	1	1	1	X	2	4	1	1	4

<b>Lehigh X1170</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Light Grease</b>	1	1	4	1	1	1	1	4	X	X	X	X
<b>Ligroin (Petroleum Ether or Benzene)</b>	1	1	4	1	1	1	X	2	4	1	2	4
<b>Lime Bleach</b>	1	1	1	1	1	1	1	1	X	X	X	X
<b>Lime Sulfur</b>	X	X	X	1	1	1	X	4	4	4	3	4
<b>Lindol, Hydraulic Fluid (Phosphate ester type)</b>	4	4	1	2	1	1	X	4	4	4	4	1
<b>Linoleic Acid</b>	2	2	4	2	1	1	X	2	4	X	X	4
<b>Linseed Oil</b>	1	1	3	1	1	1	X	3	4	1	2	3
<b>Liquid Oxygen (LOX)</b>	4	4	4	4	3	2	X	4	4	4	4	4
<b>Liquid Petroleum Gas (LPG)</b>	1	1	4	1	1	1	X	2	4	3	1	4
<b>Liquimoly</b>	1	1	4	1	1	1	X	2	4	1	2	4
<b>Lithium Bromide (Brine)</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Lithium Carbonate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Lithium Chloride</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Lithium Citrate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Lithium Hydroxide</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Lithium Hypochlorite</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Lithium Nitrate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Lithium Nitrite</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Lithium Perchlorate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Lithium Salicylate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Lithopone</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Lubricating Oils (Crude &amp; Refined)</b>	2	2	4	1	1	1	1	3	X	X	X	X
<b>Lubricating Oils (Synthetic base)</b>	X	X	X	1	1	1	X	4	4	4	3	4
<b>Lubricating Oils, Di-ester</b>	2	2	4	1	1	1	X	3	4	2	X	4
<b>Lubricating Oils, petroleum base</b>	1	1	4	1	1	1	X	2	4	1	2	4
<b>Lubricating Oils, SAE 10, 20, 30, 40, 50</b>	1	1	4	1	1	1	X	2	4	1	2	4
<b>Lye Solutions</b>	2	2	1	2	1	1	X	2	2	4	4	1



<b>—M —</b>												
<b>Magnesium Chloride</b>	1	1	1	1	1	1	X	1	1	X	1	1
<b>Magnesium Hydroxide</b>	2	2	1	1	1	1	X	2	2	4	4	1
<b>Magnesium Salts</b>	1	1	1	1	1	1	X	1	1	1	1	1
<b>Magnesium Sulfite and Sulfate</b>	1	1	1	1	1	1	X	1	2	4	X	1
<b>Magnesium Trisilicate</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Malathion</b>	2	2	4	1	1	1	X	X	4	X	X	4
<b>Maleic Acid</b>	4	4	4	1	1	1	X	4	4	4	X	4
<b>Maleic Anhydride</b>	4	4	2	4	1	1	X	4	4	4	X	2
<b>Maleic Hydrazide</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Malic Acid</b>	1	1	2	1	1	1	X	2	2	4	X	4
<b>Mandelic Acid</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Manganese Acetate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Manganese Carbonate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Manganese Chloride</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Manganese Dioxide</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Manganese Gluconate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Manganese Hypophosphite</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Manganese Linoleate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Manganese Naphthenate</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Manganese Phosphate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Manganese Sulfate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Manganous Chloride</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Manganous Phosphate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Manganous Sulfate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Mannitol</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>MCS 312</b>	4	4	4	1	1	1	X	4	4	4	X	4
<b>MCS 352</b>	4	4	1	4	1	1	X	4	4	4	4	2
<b>MCS 463</b>	4	4	1	4	1	1	X	4	4	4	4	2

<b>MDI (Methylene di-p-phenylene isocyanate)</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Mercaptan</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Mercaptobenzothiazole (MBT)</b>	X	X	X	1	1	1	X	4	4	4	3	4
<b>Mercuric Acetate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Mercuric Chloride</b>	1	1	1	1	1	1	X	1	1	X	X	1
<b>Mercuric Cyanide</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Mercuric Iodide</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Mercuric Nitrate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Mercuric Sulfate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Mercuric Sulfite</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Mercurous Nitrate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Mercury</b>	1	1	1	1	1	1	X	1	1	X	X	1
<b>Mercury Chloride</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Mercury Fulminate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Mercury Salts</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Mercury Vapors</b>	1	1	1	1	1	1	X	1	1	X	X	1
<b>Mesityl Oxide (Ketone)</b>	4	4	2	4	1	1	X	4	4	4	4	2
<b>Meta-Cresol</b>	X	X	X	1	1	1	X	4	4	4	3	4
<b>Metaldehyde</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Meta-Nitroaniline</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Meta-Toluidine</b>	X	X	X	1	1	1	X	4	4	4	3	4
<b>Methacrylic Acid</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Methallyl Chloride</b>	X	X	X	1	1	1	X	4	4	4	3	4
<b>Methane</b>	1	1	4	1	1	1	X	2	4	1	3	4
<b>Methanol</b>	4	4	1	4	1	1	X	1	1	4	4	1
<b>Methoxychlor</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Methoxyethanol (DGMMA)</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Methyl Abietate</b>	X	X	X	1	1	1	X	4	4	4	3	4
<b>Methyl Acetate</b>	4	4	2	4	2	1	X	2	4	4	4	2

<b>Methyl Acetoacetate</b>	4	4	2	4	1	1	X	4	X	4	4	2
<b>Methyl Acetophenone *</b>	X	X	X	1	2	1	X	4	4	4	3	4
<b>Methyl Acrylate</b>	4	4	2	4	1	1	X	2	4	4	4	2
<b>Methyl Alcohol</b>	4	4	1	4	1	1	X	1	1	4	4	1
<b>Methyl Amylketone</b>	3	3	1	3	2	1	X	1	1	4	4	1
<b>Methyl Anthranilate</b>	X	X	X	1	1	1	X	4	4	4	3	4
<b>Methyl Benzoate</b>	4	4	4	1	1	1	X	4	4	4	4	4
<b>Methyl Bromide</b>	2	2	4	1	1	1	X	4	4	3	X	4
<b>Methyl Butyl Ketone</b>	4	4	1	4	2	1	X	4	4	4	4	1
<b>Methyl Butyrate Cellosolve</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Methyl Butyrate Chloride</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Methyl Carbonate</b>	4	4	4	1	1	1	X	4	4	4	4	4
<b>Methyl Cellosolve</b>	3	3	2	4	1	1	X	3	4	4	4	2
<b>Methyl Cellulose</b>	2	2	2	4	1	1	X	2	2	4	2	2
<b>Methyl Chloride</b>	4	4	3	1	1	1	X	4	4	4	4	3
<b>Methyl Chloroacetate</b>	3	3	1	3	2	1	X	1	1	4	4	1
<b>Methyl Chloroform</b>	4	4	4	1	1	1	4	4	X	X	X	X
<b>Methyl Chloroformate</b>	4	4	4	1	1	1	X	4	4	4	4	4
<b>Methyl Chlorosilanes</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Methyl Cyanide (Acetonitrile)</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Methyl Cyclohexanone</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Methyl Dichloride</b>	X	X	X	1	1	1	X	4	4	4	3	4
<b>Methyl Ether</b>	1	1	4	1	2	1	X	3	4	4	X	4
<b>Methyl Ethyl Ketone (MEK)</b>	4	4	1	4	2	1	X	4	4	4	4	1
<b>Methyl Ethyl Ketone Peroxide</b>	4	4	4	4	1	1	X	4	4	4	4	4
<b>Methyl Ethyl Oleate</b>	X	X	X	1	1	1	X	4	4	4	3	4
<b>Methyl Formate</b>	4	4	2	X	1	1	X	2	4	X	X	2
<b>Methyl Hexyl Ketone (2-Octanone)</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Methyl Iodide</b>	1	1	4	1	1	1	X	2	4	1	1	4

<b>Methyl Isobutyl Ketone (MIBK)</b>	4	4	3	4	1	1	X	4	4	4	4	3
<b>Methyl Isocyanate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Methyl Isopropyl Ketone</b>	4	4	2	4	1	1	X	4	4	4	4	2
<b>Methyl Isovalerate</b>	X	X	X	1	1	1	X	4	4	4	3	4
<b>Methyl Lactate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Methyl Mercaptan</b>	X	X	1	X	1	1	X	X	X	X	X	1
<b>Methyl Methacrylate</b>	4	X	4	4	1	1	X	4	4	4	X	4
<b>Methyl Oleate</b>	4	4	2	1	1	1	X	4	4	X	X	2
<b>Methyl Pentadiene</b>	X	X	X	1	1	1	X	4	4	4	3	4
<b>Methyl Phenylacetate</b>	X	X	X	1	1	1	X	4	4	4	3	4
<b>Methyl Salicylate</b>	4	4	2	X	1	1	X	4	3	X	X	2
<b>Methyl Tertiary Butyl Ether (MTBE)</b>	3	3	3	3	2	1	2	3	X	X	X	X
<b>Methyl Valerate</b>	X	X	X	1	1	1	X	4	4	4	3	4
<b>Methyl-2-Pyrrolidone or n-Methyl-2-Pyrrolidone</b>	X	X	2	X	1	1	X	X	X	X	X	X
<b>Methylacrylic Acid</b>	4	4	2	3	1	1	X	2	4	4	4	2
<b>Methylal</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Methylamine</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Methylamyl Acetate</b>	3	3	1	3	2	1	X	1	1	4	4	1
<b>Methylcyclopentane</b>	4	4	4	1	1	1	X	4	4	4	4	4
<b>Methylene Bromide</b>	X	X	X	1	1	1	X	4	4	4	3	4
<b>Methylene Chloride</b>	4	4	4	2	1	1	X	4	4	4	4	4
<b>Methylene Iodide</b>	X	X	X	1	1	1	X	4	4	4	3	4
<b>Methylglycerol</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Methylisobutyl Carbinol</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Methylpyrrolidine</b>	X	X	X	1	1	1	X	4	4	4	3	4
<b>Methylpyrrolidone</b>	X	X	X	1	1	1	X	4	4	4	3	4
<b>Methylsulfuric Acid</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>MIL-A-6091</b>	2	2	1	1	1	1	X	1	1	4	4	1
<b>MIL-C-4339</b>	1	1	4	1	1	1	X	4	4	1	1	4

<b>MIL-C-7024</b>	1	1	4	1	1	1	X	2	4	2	1	4
<b>MIL-C-8188</b>	2	2	4	2	1	1	X	4	4	3	4	4
<b>MIL-E-9500</b>	1	1	1	1	1	1	X	1	1	4	4	1
<b>MIL-F-16884</b>	1	1	4	1	1	1	X	3	4	1	3	4
<b>MIL-F-17111</b>	1	1	4	1	1	1	X	2	4	1	3	4
<b>MIL-F-25558 (RJ-1)</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>MIL-F-25656</b>	1	1	4	1	1	1	X	4	4	2	2	4
<b>MIL-F-5566</b>	2	2	1	1	1	1	X	2	2	4	2	1
<b>MIL-F-81912 (JP-9)</b>	3	3	4	1	1	1	X	4	4	4	3	4
<b>MIL-F-82522 (RJ-4)</b>	2	2	4	1	1	1	X	4	4	1	1	4
<b>MIL-G-10924</b>	1	1	4	1	1	1	X	2	4	2	1	4
<b>MIL-G-15793</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>MIL-G-21568</b>	1	1	1	1	1	1	X	1	1	1	1	1
<b>MIL-G-25013</b>	1	1	1	1	1	1	X	2	1	1	3	1
<b>MIL-G-25537</b>	1	1	4	1	1	1	X	2	4	2	1	4
<b>MIL-G-25760</b>	2	2	4	1	1	1	X	2	4	2	2	4
<b>MIL-G-3278</b>	2	2	4	1	1	1	X	4	4	1	2	4
<b>MIL-G-3545</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>MIL-G-4343</b>	2	2	3	1	1	1	X	2	1	1	1	3
<b>MIL-G-5572</b>	1	1	4	1	1	1	X	4	4	2	2	4
<b>MIL-G-7118</b>	2	2	4	1	1	1	X	2	4	3	3	4
<b>MIL-G-7187</b>	1	1	4	1	1	1	X	4	4	1	1	4
<b>MIL-G-7421</b>	2	2	4	1	1	1	X	2	4	4	2	4
<b>MIL-G-7711</b>	1	1	4	1	1	1	X	4	4	2	1	4
<b>MIL-H-13910</b>	1	1	1	1	1	1	X	1	1	2	4	1
<b>MIL-H-19457</b>	4	4	2	1	1	1	X	4	4	4	4	1
<b>MIL-H-22251</b>	2	2	1	X	X	X	X	2	2	X	X	1
<b>MIL-H-27601</b>	1	1	4	1	1	1	X	2	4	1	3	4
<b>MIL-H-46170 -15°F to +400°F</b>	1	1	4	1	1	1	X	2	4	2	2	4

<b>MIL-H-46170 -20°F to +275°F</b>	1	1	4	1	1	1	X	2	4	2	2	4
<b>MIL-H-46170 -55°F to +275°F</b>	1	1	4	1	1	1	X	2	4	2	2	4
<b>MIL-H-46170 -65°F to +275°F</b>	1	1	4	1	1	1	X	2	4	2	2	4
<b>MIL-H-5606 -65°F to +235°F</b>	1	1	4	1	1	1	X	2	4	2	2	4
<b>MIL-H-5606 -65°F to +275°F</b>	1	1	4	1	1	1	X	2	4	2	2	4
<b>MIL-H-6083</b>	1	1	4	1	1	1	X	1	4	1	1	4
<b>MIL-H-7083</b>	1	1	1	2	1	1	X	2	2	4	4	1
<b>MIL-H-8446 (MLO-8515)</b>	2	2	4	1	1	1	X	1	4	3	4	4
<b>MIL-J-5161</b>	2	2	4	1	1	1	X	4	4	1	2	4
<b>Milk</b>	1	1	1	1	1	1	X	1	1	4	4	1
<b>MIL-L-15016</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>MIL-L-15017</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>MIL-L-17331</b>	1	1	4	1	1	1	X	X	4	X	X	4
<b>MIL-L-2104</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>MIL-L-21260</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>MIL-L-23699</b>	2	2	4	1	1	1	X	3	4	3	3	4
<b>MIL-L-25681</b>	2	2	1	1	1	1	X	2	2	2	3	1
<b>MIL-L-3150</b>	1	1	4	1	1	1	X	2	4	2	2	4
<b>MIL-L-6081</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>MIL-L-6082</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>MIL-L-6085</b>	2	2	4	1	1	1	X	4	4	2	3	4
<b>MIL-L-6387</b>	2	2	4	1	1	1	X	4	4	2	1	4
<b>MIL-L-7808</b>	2	2	4	1	1	1	X	4	4	2	4	4
<b>MIL-L-7870</b>	1	1	4	1	1	1	X	2	4	1	2	4
<b>MIL-L-9000</b>	1	1	4	1	1	1	X	2	4	1	3	4
<b>MIL-L-9236</b>	2	2	4	1	1	1	X	4	4	2	2	4
<b>MIL-O-3503</b>	1	1	4	1	1	1	X	2	4	2	1	4
<b>MIL-P-27402</b>	2	2	1	X	X	X	X	2	2	X	X	1
<b>MIL-R-25576 (RP-1)</b>	1	1	4	1	1	1	X	2	4	1	1	4

<b>MIL-S-3136, Type I Fuel</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>MIL-S-3136, Type II Fuel</b>	2	2	4	1	1	1	X	4	4	3	2	4
<b>MIL-S-3136, Type III Fuel</b>	2	2	4	1	1	1	X	4	4	3	2	4
<b>MIL-S-3136, Type IV Oil High Swell</b>	1	1	4	1	1	1	X	4	4	1	1	4
<b>MIL-S-3136, Type IV Oil Low Swell</b>	1	1	4	1	1	1	X	1	4	1	1	4
<b>MIL-S-3136, Type V Oil Medium Swell</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>MIL-S-81087</b>	1	1	1	1	1	1	X	1	1	1	1	1
<b>MIL-T-5624, JP-4, JP-5</b>	1	1	4	1	1	1	X	4	4	2	2	4
<b>MIL-T-83133</b>	1	1	4	1	1	1	X	3	4	1	1	4
<b>Mineral Oils</b>	1	1	3	1	1	1	X	2	4	1	1	3
<b>Mixed Acids</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>MLO-7277 Hydr.</b>	3	3	4	1	1	1	X	4	4	3	3	4
<b>MLO-7557</b>	3	3	4	1	1	1	X	4	4	3	3	4
<b>MLO-8200 Hydr.</b>	2	2	4	1	1	1	X	1	4	X	1	4
<b>MLO-8515</b>	2	2	4	1	1	1	X	1	4	3	1	4
<b>Mobil 24dte</b>	1	1	4	1	1	1	1	2	X	X	X	X
<b>Mobil 254 Lubricant</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Mobil Delvac 1100, 1110, 1120, 1130</b>	1	1	4	1	1	1	1	2	X	X	X	X
<b>Mobil HF</b>	1	1	4	1	1	1	X	2	X	X	X	X
<b>Mobil Nivac 20, 30</b>	1	1	1	1	1	1	1	1	X	X	X	X
<b>Mobil SHC 500 Series</b>	3	3	4	1	1	1	X	2	X	1	2	4
<b>Mobil SHC 600 Series</b>	3	3	4	1	1	1	X	2	4	1	1	4
<b>Mobil Therm 600</b>	1	1	4	1	1	1	1	2	X	X	X	X
<b>Mobil Velocite c</b>	1	1	4	1	1	1	1	2	X	X	X	X
<b>Mobilgas WA200 ATF</b>	1	1	4	1	1	1	1	2	X	X	X	X
<b>Mobilgear 600 Series</b>	3	3	3	1	1	1	X	1	4	1	2	3
<b>Mobilgear SHC ISO Series</b>	3	3	3	1	1	1	X	2	4	1	2	3
<b>Mobilgrease HP</b>	2	2	4	1	1	1	X	2	4	1	1	4
<b>Mobilgrease HTS</b>	2	2	4	1	1	1	X	2	4	1	1	4

<b>Mobilgrease SM</b>	2	2	4	1	1	1	X	2	4	1	1	4
<b>Mobilith AW Series</b>	2	2	4	1	1	1	X	2	4	1	1	4
<b>Mobilith SHC Series</b>	2	2	4	1	1	1	X	3	4	1	1	4
<b>Mobiljet II Lubricant</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Mobilmistlube Series</b>	3	3	3	1	1	1	X	1	4	1	2	3
<b>Mobiloil SAE 20</b>	1	1	4	1	1	1	1	2	X	X	X	X
<b>Mobilux</b>	1	1	4	1	1	1	1	2	X	X	X	X
<b>Molybdenum Disulfide Grease</b>	1	X	4	1	1	1	1	4	X	X	X	X
<b>Molybdenum Oxide</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Molybdenum Trioxide</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Molybdic Acid</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Monobromobenzene</b>	4	4	4	1	1	1	X	4	4	4	4	4
<b>Monobromotoluene</b>	X	X	X	1	1	1	X	4	4	4	3	4
<b>Monobutyl Paracresol</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Monochloroacetic Acid</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Monochlorobenzene</b>	4	4	4	1	1	1	X	4	4	4	4	4
<b>Monochlorobutene</b>	X	X	X	1	1	1	X	4	4	4	3	4
<b>Monochlorohydrin</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Monoethanolamine (MEA)</b>	4	4	2	4	2	1	X	4	2	4	4	2
<b>Monoethyl Amine</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Monoisopropylamine</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Monomethyl Aniline</b>	4	X	1	2	1	1	X	1	1	4	4	1
<b>Monomethyl Ether (Dimethyl Ether)</b>	X	X	X	X	2	1	X	X	X	X	X	X
<b>Monomethyl Ether (Methyl Ether)</b>	1	X	4	1	1	1	X	X	X	X	X	X
<b>Monomethyl Hydrazine</b>	2	2	1	X	1	1	X	2	2	X	X	1
<b>Monomethylamine (MMA)</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Monomethylaniline</b>	4	4	2	2	1	1	X	4	4	4	4	2
<b>Mononitrotoluene</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Mononitrotoluene &amp; Dinitrotoluene (40/60 Mixture)</b>	4	4	1	3	2	2	X	4	4	4	4	4



<b>Monovinyl Acetylene</b>	1	1	1	1	1	1	X	2	2	X	X	1
<b>Mopar Brake Fluid</b>	3	3	1	4	1	1	X	2	1	X	X	2
<b>Morpholine</b>	X	X	X	1	1	1	X	4	4	4	3	4
<b>Motor Oils</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Mustard Gas</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Myristic Acid</b>	X	X	X	1	1	1	X	4	4	4	3	4
<b>— N —</b>												
<b>Naphthalene</b>	4	4	4	1	1	1	X	4	4	X	2	4
<b>Naphthalene Chloride</b>	X	X	X	1	1	1	X	4	4	4	3	4
<b>Naphthalene Sulfonic Acid</b>	X	X	X	1	1	1	X	4	4	4	3	4
<b>Naphthalenic Acid</b>	X	X	X	1	1	1	X	4	4	4	3	4
<b>Naphthalonic Acid</b>	X	X	X	1	1	1	X	4	4	4	3	4
<b>Naphthenic Acid</b>	2	2	4	1	1	1	X	4	4	X	X	4
<b>Naphthylamine</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Naptha</b>	2	2	4	1	1	1	X	4	4	2	2	4
<b>Natural Gas</b>	1	1	4	1	1	1	X	1	2	2	2	4
<b>Neatsfoot Oil</b>	1	1	2	1	1	1	X	4	4	1	1	2
<b>Neon</b>	1	1	1	1	1	1	X	1	1	1	1	1
<b>Neville Acid</b>	4	4	2	1	1	1	X	4	4	4	X	2
<b>Nickel Acetate</b>	2	2	1	4	1	1	X	2	4	4	4	1
<b>Nickel Ammonium Sulfate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Nickel Chloride</b>	1	1	1	1	1	1	X	2	1	3	3	1
<b>Nickel Cyanide</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Nickel Nitrate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Nickel Salts</b>	1	1	1	1	1	1	X	2	1	3	3	1
<b>Nickel Sulfate</b>	1	1	1	1	1	1	X	1	2	4	3	1
<b>Nicotinamide (Niacinamide)</b>	X	X	X	1	1	1	X	4	4	4	3	4
<b>Nicotinamide Hydrochloride</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Nicotine</b>	X	X	X	1	1	1	X	4	4	4	3	4

<b>Nicotine Sulfate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Niter Cake</b>	1	1	1	1	1	1	X	1	1	4	1	1
<b>Nitric Acid, Red Fuming</b>	4	4	4	2	1	1	3	4	X	X	X	X
<b>Nitric Acid, White Fuming</b>	X	X	X	X	2	2	X	X	X	X	X	X
<b>Nitric Acid (0 - 50%)</b>	4	X	2	1	1	1	X	X	X	X	X	X
<b>Nitric Acid (50 - 100%)</b>	4	X	4	3	1	1	X	X	X	X	X	X
<b>Nitric Acid 3 Molar to 158°F</b>	4	4	2	3	2	2	X	4	3	4	4	2
<b>Nitric Acid Concentrated Room Temp.</b>	X	X	4	2	1	1	X	X	X	X	X	X
<b>Nitric Acid Concentrated to 158°F</b>	4	4	4	4	3	2	X	4	4	4	4	4
<b>Nitroaniline</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Nitrobenzene</b>	4	4	1	2	1	1	X	4	4	4	4	1
<b>Nitrobenzoic Acid</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Nitrocellulose</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Nitrochlorobenzene</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Nitrochloroform</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Nitrodiethylaniline</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Nitrodiphenyl Ether</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Nitroethane</b>	4	4	2	4	1	1	X	2	2	4	4	2
<b>Nitrofluorobenzene</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Nitrogen</b>	1	1	1	1	1	1	X	1	1	1	1	1
<b>Nitrogen Oxides</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Nitrogen Tetroxide (N2O4)</b>	4	3	4	4	2	2	X	4	4	4	4	3
<b>Nitrogen Trifluoride</b>	X	X	X	X	2	2	X	X	X	X	X	X
<b>Nitroglycerine</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Nitroglycerol</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Nitroisopropylbenzene</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Nitromethane</b>	4	4	2	4	1	1	X	3	3	4	4	2
<b>Nitrophenol</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Nitropropane</b>	4	4	2	4	1	1	X	4	4	4	4	2

<b>Nitrosyl Chloride</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Nitrosylsulfuric Acid</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Nitrothiophene</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Nitrotoluene</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Nitrous Acid</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Nitrous Oxide</b>	1	1	1	1	1	1	X	X	X	X	X	X
<b>Nonane</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Noryl GE Phenolic</b>	1	1	1	X	X	X	X	X	X	X	X	X
<b>Nyvac FR200 Mobil</b>	1	1	1	1	1	1	X	2	4	X	X	4
<b>– O –</b>												
<b>Octachloro Toluene</b>	4	4	4	1	1	1	X	4	4	4	4	4
<b>Octadecane</b>	1	1	4	1	1	1	X	2	4	2	1	4
<b>Octanal (n-Octanaldehyde)</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Octane or n-Octane</b>	1	1	4	1	1	1	X	4	4	4	4	4
<b>Octyl Acetate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Octyl Alcohol</b>	2	2	3	1	1	1	X	2	2	4	4	2
<b>Octyl Chloride</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Octyl Phthalate</b>	X	X	X	1	1	1	X	4	4	4	3	4
<b>Olefins</b>	X	X	X	1	1	1	X	4	4	4	3	4
<b>Oleic Acid</b>	3	3	4	2	1	1	X	4	4	4	2	4
<b>Oleum (Fuming Sulfuric Acid)</b>	4	4	4	1	1	1	X	4	4	4	4	4
<b>Oleum Spirits</b>	2	2	4	1	1	1	X	3	4	X	3	4
<b>Oleyl Alcohol</b>	X	X	X	1	1	1	X	4	4	4	3	4
<b>Olive Oil</b>	1	1	2	1	1	1	X	2	4	1	1	2
<b>Oronite 8200</b>	2	2	4	1	1	1	X	1	4	X	1	4
<b>Oronite 8515</b>	2	2	4	1	1	1	X	1	4	X	1	4
<b>Ortho-Chloro Ethyl Benzene</b>	4	4	4	1	1	1	X	4	4	4	4	4
<b>Ortho-Chloroaniline</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Ortho-Chlorophenol</b>	3	3	1	3	1	1	X	1	1	4	4	1

<b>Ortho-Cresol</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Ortho-Dichlorobenzene</b>	4	4	4	1	1	1	X	4	4	4	4	4
<b>Ortho-Nitrotoluene</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Orthophos Acid</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>OS 45 Type III (OS45)</b>	2	2	4	1	1	1	X	1	4	X	4	4
<b>OS 45 Type IV (OS45-1)</b>	2	2	4	1	1	1	X	1	4	X	4	4
<b>OS 70</b>	2	2	4	1	1	1	X	1	4	X	4	4
<b>Oxalic Acid</b>	2	2	1	1	1	1	X	2	2	X	X	1
<b>Oxygen, 200°-300°F (Evalute for specific applications)</b>	4	4	4	2	1	1						
<b>Oxygen, 300°-400°F (Evalute for specific applications)</b>	4	4	4	2	1	1	X	4	4	4	4	4
<b>Oxygen, Cold (Evalute for specific applications)</b>	2	2	1	1	1	1	X	1	2	2	1	1
<b>Oxygen, Liquid</b>	4	4	4	4	3	2	4	4	X	X	X	X
<b>Ozonated Deionized Water</b>	3	3	1	3	2	2	X	1	1	4	4	1
<b>Ozone</b>	4	4	1	1	1	1	X	2	4	2	1	2
<b>— P —</b>												
<b>Paint Thinner, Duco</b>	4	4	4	2	1	1	X	4	4	4	4	4
<b>Palmitic Acid</b>	1	1	2	1	1	1	X	2	2	X	1	2
<b>Para-Aminobenzoic Acid</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Para-Aminosalicylic Acid</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Para-Bromobenzylphenyl Ether</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Para-Chlorophenol</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Paracymene</b>	X	X	X	1	1	1	X	4	4	4	3	4
<b>Para-Dichlorobenzene</b>	4	4	4	1	1	1	X	4	4	4	4	4
<b>Paraffins</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Para-Formaldehyde</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Paraldehyde</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Par-al-Ketone</b>	4	4	4	4	X	X	X	4	4	4	4	4
<b>Para-Nitroaniline</b>	3	3	1	3	1	1	X	1	1	4	4	1

<b>Para-Nitrobenzoic Acid</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Para-Nitrophenol</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Parathion</b>	X	X	X	1	1	1	X	4	4	4	3	4
<b>Para-Toluene Sulfonic Acid</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Parker O Lube</b>	1	1	4	1	1	1	X	1	2	1	1	4
<b>Peanut Oil</b>	1	1	3	1	1	1	X	3	4	1	2	3
<b>Pectin (Liquor)</b>	X	X	X	1	1	1	X	4	4	4	3	4
<b>Pelagonic Acid</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Penicillin (Liquid)</b>	X	X	X	1	1	1	X	4	4	4	3	4
<b>Pentachloroethane</b>	X	X	X	1	1	1	X	4	4	4	3	4
<b>Pentachlorophenol</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Pentaerythritol</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Pentaerythritol Tetranitrate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Pentafluoroethane (F-125)</b>	X	X	X	X	2	2	X	X	X	X	X	X
<b>Pentane or n-Pentane</b>	1	1	4	1	1	1	X	1	3	1	4	4
<b>Pentane, 2 Methyl</b>	1	1	4	1	1	1	X	2	4	1	4	4
<b>Pentane, 2-4 dimethyl</b>	1	1	4	1	1	1	X	2	4	1	4	4
<b>Pentane, 3-Methyl</b>	1	1	4	1	1	1	X	2	4	1	4	4
<b>Pentoxone</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Pentyl Pentanoate</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Peracetic Acid</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Perchloric Acid - 2N</b>	4	4	1	1	1	1	X	2	4	4	4	2
<b>Perchloroethylene</b>	2	2	4	1	1	1	X	4	4	4	4	4
<b>Perfluoropropane</b>	X	X	X	X	2	2	X	X	X	X	X	X
<b>Perfluorotriethylamine</b>	X	X	X	X	2	2	X	X	X	X	X	X
<b>Permanganic Acid</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Persulfuric Acid (Caro's Acid)</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Petrolatum</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Petrolatum Ether</b>	1	1	4	1	1	1	X	2	4	1	1	4

<b>Petroleum Oil, Above 250°F</b>	4	4	4	2	1	1	X	4	4	4	4	4
<b>Petroleum Oil, Below 250°F</b>	1	1	4	1	1	1	X	2	4	2	2	4
<b>Petroleum Oil, Crude</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Phenol</b>	4	4	4	1	1	1	X	4	4	4	4	4
<b>Phenol, 70% / 30% H2O</b>	4	4	4	1	1	1	X	4	4	4	4	4
<b>Phenol, 85% / 15% H2O</b>	4	4	4	1	1	1	X	4	4	4	4	4
<b>Phenolic Sulfonate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Phenolsulfonic Acid</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Phenylacetamide</b>	X	X	X	1	1	1	X	4	4	4	3	4
<b>Phenylacetate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Phenylacetic Acid</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Phenylbenzene</b>	4	4	4	1	1	1	X	4	4	4	4	4
<b>Phenylene Diamine</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Phenylethyl Alcohol</b>	X	X	X	1	1	1	X	4	4	4	3	4
<b>Phenylethyl Ether</b>	4	4	4	4	1	1	X	4	4	4	4	4
<b>Phenylethyl Malonic Ester *</b>	X	X	X	1	1	1	X	4	4	4	3	4
<b>Phenylglycerine</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Phenylhydrazine</b>	4	4	2	1	1	1	X	4	2	4	X	4
<b>Phenylhydrazine Hydrochloride</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Phenylmercuric Acetate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Phorone</b>	4	4	3	4	1	1	X	4	4	4	4	3
<b>Phosgene</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Phosphine</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Phosphoric Acid 3 Molar to 158°F</b>	1	1	1	1	1	1	X	2	2	3	4	1
<b>Phosphoric Acid Concentrated Room Temp</b>	2	2	1	1	1	1	X	2	1	2	4	1
<b>Phosphoric Acid Concentrated to 158°F</b>	4	4	1	1	1	1	X	3	2	3	4	1
<b>Phosphoric Acid, 20%</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Phosphoric Acid, 45%</b>	X	X	X	X	1	1	X	X	X	X	X	X

<b>Phosphorus (Molten)</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Phosphorus Oxychloride</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Phosphorus Trichloride</b>	4	4	1	1	1	1	X	4	4	X	X	1
<b>Phosphorus Trichloride Acid</b>	4	4	1	1	1	1	1	4	X	X	X	X
<b>Phthalic Acid</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Phthalic Anhydride</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Pickling Solution</b>	4	4	3	2	1	1	X	4	4	4	4	3
<b>Picric Acid (aq)</b>	1	1	1	1	1	1	X	1	2	X	X	1
<b>Picric Acid Molten</b>	2	2	2	1	1	1	X	2	2	X	X	2
<b>Pine Oil</b>	1	1	4	1	1	1	X	4	4	X	X	4
<b>Pine Tar</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Pinene</b>	2	2	4	1	1	1	X	3	4	4	2	4
<b>Piperazine</b>	X	X	X	1	1	1	X	4	4	4	3	4
<b>Piperidine</b>	4	4	4	1	1	1	X	4	4	4	3	4
<b>Piranha (H2SO4:H2O2)(70:30)</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Plating Solution (Co,Cu,Au,In,Fe,Pb,Ni,Ag,Sn,Zn)</b>	1	1	1	1	1	1	1	X	X	X	X	X
<b>Plating Solutions Chrome</b>	4	4	2	1	1	1	X	4	4	4	4	2
<b>Plating Solutions Others</b>	1	1	1	1	1	1	X	4	4	X	X	1
<b>Pneumatic Service</b>	1	1	1	1	1	1	X	1	4	4	1	1
<b>Polyethylene Glycol</b>	2	2	1	3	1	1	1	2	X	X	X	X
<b>Polyglycerol</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Polyglycol</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Polyvinyl Acetate Emulsion</b>	X	X	1	X	1	1	X	2	4	X	X	1
<b>Potassium (Molten)</b>	X	X	X	X	4	4	X	X	X	X	X	X
<b>Potassium Acetate</b>	2	2	1	4	1	1	X	2	4	4	4	1
<b>Potassium Acid Sulfate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Potassium Alum</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Potassium Aluminum Sulfate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Potassium Antimonate</b>	3	3	1	3	1	1	X	1	1	4	4	1

<b>Potassium Bicarbonate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Potassium Bichromate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Potassium Bifluoride</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Potassium Bisulfate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Potassium Bisulfite</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Potassium Bitartrate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Potassium Bromide</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Potassium Carbonate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Potassium Chlorate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Potassium Chloride</b>	1	1	1	1	1	1	X	1	1	1	1	1
<b>Potassium Chromates</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Potassium Citrate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Potassium Cupro Cyanide</b>	1	1	1	1	1	1	X	1	1	1	1	1
<b>Potassium Cyanate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Potassium Cyanide</b>	1	1	1	1	1	1	X	1	1	1	1	1
<b>Potassium Dichromate</b>	1	1	1	1	1	1	X	1	1	1	2	1
<b>Potassium Diphosphate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Potassium Ferricyanide</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Potassium Fluoride</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Potassium Glucocyanate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Potassium Hydroxide 50%</b>	2	2	1	4	1	1	X	2	2	4	4	1
<b>Potassium Hypochlorite</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Potassium Iodate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Potassium Iodide</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Potassium Metabisulfate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Potassium Metachromate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Potassium Metasilicate</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Potassium Monochromate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Potassium Nitrate</b>	1	1	1	1	1	1	X	1	1	1	1	1



<b>Potassium Nitrite</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Potassium Oxalate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Potassium Perchlorate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Potassium Perfluoro Acetate</b>	X	X	X	X	2	1	X	X	X	X	X	X
<b>Potassium Permanganate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Potassium Peroxide</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Potassium Persulfate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Potassium Phosphate (Acid)</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Potassium Phosphate (Alkaline)</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Potassium Phosphate (Di/Tri Basic)</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Potassium Pyrosulfate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Potassium Salts</b>	1	1	1	1	1	1	X	1	1	1	1	1
<b>Potassium Silicate</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Potassium Sodium Tartrate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Potassium Stannate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Potassium Stearate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Potassium Sulfate</b>	1	1	1	1	1	1	X	1	2	4	1	1
<b>Potassium Sulfide</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Potassium Sulfite</b>	1	1	1	1	1	1	X	1	2	4	1	1
<b>Potassium Tartrate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Potassium Thiocyanate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Potassium Thiosulfate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Potassium Triphosphate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Prestone Antifreeze</b>	1	1	1	1	1	1	X	1	1	4	4	1
<b>PRL-High Temp. Hydr. Oil</b>	2	2	4	1	1	1	X	2	4	1	2	4
<b>Producer Gas</b>	1	1	4	1	1	1	X	2	4	2	1	4
<b>Propane</b>	1	1	4	1	1	1	X	2	4	1	3	4
<b>Propionaldehyde</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Propionic Acid</b>	3	3	1	3	1	1	X	1	1	4	4	1

<b>Propionitrile</b>	1	1	4	1	1	1	1	2	X	X	X	X
<b>Propyl Acetate</b>	4	4	2	4	1	1	X	4	4	4	4	2
<b>Propyl Acetone or n-Propyl Acetone</b>	4	4	1	4	1	1	X	4	4	4	4	1
<b>Propyl Alcohol</b>	1	1	1	1	1	1	X	1	1	4	4	1
<b>Propyl Nitrate</b>	4	4	2	4	1	1	X	4	4	4	X	2
<b>Propyl Propionate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Propylamine</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Propylbenzene</b>	X	X	X	1	1	1	X	4	4	4	3	4
<b>Propylene</b>	3	3	4	1	1	1	X	4	4	4	4	4
<b>Propylene Chloride</b>	X	X	X	1	1	1	X	4	4	4	3	4
<b>Propylene Chlorohydrin</b>	X	X	X	1	1	1	X	4	4	4	3	4
<b>Propylene Dichloride</b>	X	X	X	1	1	1	X	4	4	4	3	4
<b>Propylene Glycol</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Propylene Imine</b>	X	X	X	1	1	1	X	4	4	4	3	4
<b>Propylene Oxide</b>	4	4	2	4	1	1	X	4	4	4	4	2
<b>Pydraul 90e</b>	4	4	1	1	1	1	1	4	X	X	X	X
<b>Pydraul, 10E</b>	4	4	1	4	1	1	X	4	4	4	4	1
<b>Pydraul, 115E</b>	4	4	1	1	1	1	X	4	4	4	4	1
<b>Pydraul, 230C, 312C, 540C, A200</b>	4	4	4	1	1	1	X	4	4	4	4	4
<b>Pydraul, 29ELT 30E, 50E, 65E</b>	4	4	1	1	1	1	X	4	4	4	4	1
<b>Pyranol Transformer Oil</b>	1	1	4	1	1	1	X	2	4	1	2	4
<b>Pyridine</b>	4	4	2	1	2	1	X	4	4	4	3	4
<b>Pyridine Oil</b>	4	4	2	4	1	1	X	4	4	4	X	2
<b>Pyridine Sulfate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Pyridine Sulfonic Acid</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Pyrogallol (Pyrogallic Acid)</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Pyrogard 42, 43, 55</b>	4	4	1	1	1	1	2	4	X	X	X	X
<b>Pyrogard 53, Mobil Phosphate Ester</b>	4	4	1	1	1	1	X	4	4	4	4	1
<b>Pyrogard D, Mobil Water-in-Oil Emulsion</b>	1	1	4	4	1	1	X	2	4	X	1	4

<b>Pyroligneous Acid</b>	4	4	2	4	1	1	X	2	4	4	4	2
<b>Pyrolube</b>	4	4	2	1	1	1	X	4	4	4	4	2
<b>Pyrosulfuric Acid</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Pyrosulfuryl Chloride</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Pyrrole</b>	4	4	4	4	1	1	X	4	2	4	X	4
<b>Pyruvic Acid</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>— Q —</b>												
<b>Quinidine</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Quinine</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Quinine Bisulfate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Quinine Hydrochloride</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Quinine Sulfate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Quinine Tartrate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Quinizarin</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Quinoline</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Quinone</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>— R —</b>												
<b>Radiation (Gamma, 1.0 E+07 Rads)</b>	3	3	2	4	3	2	X	X	X	X	4	4
<b>Raffinate</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Rapeseed Oil</b>	2	2	1	1	1	1	X	2	4	2	2	1
<b>Red Line 100 Oil</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Red Oil (MIL-H-5606)</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Resorcinol</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Rhodium</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Riboflavin</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Ricinoleic Acid</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>RJ-1 (MIL-F-25558)</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>RJ-4 (MIL-F-82522)</b>	2	2	4	1	1	1	X	4	4	2	2	4
<b>Rosin</b>	2	2	4	1	1	1	X	4	4	4	3	4

<b>RP-1 (MIL-R-25576)</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>—S —</b>												
<b>Saccharin Solution</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sal Ammoniac</b>	1	1	1	1	1	1	X	1	1	1	1	1
<b>Salicylic Acid</b>	2	2	1	1	1	1	X	X	2	X	X	1
<b>Santo Safe 300</b>	4	4	3	1	1	1	X	4	4	4	X	3
<b>Sea (Salt) Water</b>	1	1	1	1	1	1	X	2	1	4	2	1
<b>Sebacic Acid</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Selenic Acid</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Selenous Acid</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sewage</b>	1	1	1	1	1	1	X	2	1	4	4	1
<b>SF 1154 GE Silicone Fluid</b>	2	2	1	1	1	1	X	1	1	1	2	1
<b>SF1147 GE Silicone Fluid</b>	2	2	3	1	1	1	X	X	X	X	X	3
<b>SF96 GE SILicone Fluid</b>	2	2	1	1	1	1	X	1	1	1	2	1
<b>Shell 3XF Mine Fluid (Fire resist hydr.)</b>	1	1	4	1	1	1	X	2	4	4	4	4
<b>Shell Alvania Grease #2</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Shell Carnea 19 and 29</b>	1	1	4	1	1	1	X	4	4	1	2	4
<b>Shell Diala</b>	1	1	4	1	1	1	X	2	4	1	2	4
<b>Shell Irus 905</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Shell Lo Hydrax 27 and 29</b>	1	1	4	1	1	1	X	2	4	1	2	4
<b>Shell Macome 72</b>	1	1	4	1	1	1	X	2	4	1	2	4
<b>Shell Tellus #32 Pet. Base</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Shell Tellus #68</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Shell Tellus 27 (Petroleum Base)</b>	1	1	4	1	1	1	1	2	X	X	X	X
<b>Shell Tellus 33</b>	1	1	4	1	1	1	1	2	X	X	X	X
<b>Shell UMF (5% Aromatic)</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Shellac</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Silane</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Silicate Esters</b>	2	2	4	1	1	1	X	1	4	X	1	4

<b>Silicon Fluoride</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Silicon Tetrachloride</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Silicon Tetrafluoride</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Silicone Greases</b>	1	1	1	1	1	1	X	1	1	1	1	1
<b>Silicone Oils</b>	1	1	1	1	1	1	X	1	1	1	1	1
<b>Silver Bromide</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Silver Chloride</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Silver Cyanide</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Silver Nitrate</b>	2	2	1	1	1	1	X	1	1	1	1	1
<b>Silver Sulfate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sinclair Opaline CX-EP Lube</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Skelly, Solvent B, C, E</b>	1	1	4	1	1	1	X	4	4	X	X	4
<b>Skydrol 500 B4</b>	4	4	1	4	1	1	X	4	4	4	4	2
<b>Skydrol 7000</b>	4	4	1	2	1	1	1	4	X	X	X	X
<b>Skydrol LD-4</b>	4	4	1	4	1	1	X	4	4	4	4	2
<b>Soap Solutions</b>	1	1	1	1	1	1	X	2	2	4	4	1
<b>Socony Mobile Type A</b>	1	1	4	1	1	1	X	2	4	1	2	4
<b>Socony Vacuum AMV AC781 (Grease)</b>	1	1	4	1	1	1	X	2	4	1	2	4
<b>Socony Vacuum PD959B</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Soda Ash</b>	1	1	1	1	1	1	X	1	1	X	X	1
<b>Sodium (Molten)</b>	X	X	X	X	4	4	X	X	X	X	X	X
<b>Sodium Acetate</b>	2	2	1	4	1	1	X	2	4	3	3	1
<b>Sodium Acid Bisulfate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Acid Fluoride</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Acid Sulfate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Aluminate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Aluminate Sulfate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Anthraquinone Disulfate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Antimonate</b>	3	3	1	3	1	1	X	1	1	4	4	1

<b>Sodium Arsenate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Arsenite</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Benzoate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Bicarbonate (Baking Soda)</b>	1	1	1	1	1	1	X	1	1	X	X	1
<b>Sodium Bichromate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Bifluoride</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Bisulfate or Bisulfite</b>	1	1	1	1	1	1	X	1	2	4	X	1
<b>Sodium Bisulfide</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Bitartrate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Borate</b>	1	1	1	1	1	1	X	1	1	X	X	1
<b>Sodium Bromate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Bromide</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Carbonate (Soda Ash)</b>	1	1	1	1	1	1	X	1	1	X	X	1
<b>Sodium Chlorate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Chloride</b>	1	1	1	1	1	1	X	1	1	X	1	1
<b>Sodium Chlorite</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Chloroacetate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Chromate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Citrate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Cyanamide</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Cyanate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Cyanide</b>	1	1	1	X	1	1	X	1	1	X	X	1
<b>Sodium Diacetate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Diphenyl Sulfonate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Diphosphate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Disilicate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Ethylate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Ferricyanide</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Ferrocyanide</b>	3	3	1	3	1	1	X	1	1	4	4	1

<b>Sodium Fluoride</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Fluorosilicate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Glutamate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Hydride</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Sodium Hydrogen Sulfate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Hydrosulfide</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Hydrosulfite</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Hydroxide, 3 Molar</b>	2	2	1	2	1	1	X	2	2	4	2	1
<b>Sodium Hypochlorite</b>	2	2	1	1	1	1	X	2	2	4	4	1
<b>Sodium Hypophosphate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Hypophosphite</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Hyposulfite</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Iodide</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Lactate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Metaphosphate</b>	1	1	1	1	1	1	X	2	1	X	X	1
<b>Sodium Metasilicate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Methylate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Monophosphate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Nitrate</b>	2	2	1	X	1	1	X	2	2	X	X	1
<b>Sodium Oleate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Orthosilicate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Oxalate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Perborate</b>	2	2	1	1	1	1	X	2	2	X	X	1
<b>Sodium Percarbonate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Perchlorate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Peroxide</b>	2	2	1	1	1	1	X	2	2	4	4	1
<b>Sodium Persulfate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Phenolate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Phenoxide</b>	3	3	1	3	1	1	X	1	1	4	4	1

<b>Sodium Phosphate (Dibasic)</b>	1	1	1	1	1	1	X	2	1	1	1	1
<b>Sodium Phosphate (Mono)</b>	1	1	1	1	1	1	X	2	1	1	1	1
<b>Sodium Phosphate (Tribasic)</b>	1	1	1	1	1	1	X	2	1	1	1	1
<b>Sodium Plumbite</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Pyrophosphate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Resinate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Salicylate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Salts</b>	1	1	1	1	1	1	X	2	1	1	1	1
<b>Sodium Sesquisilicate</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Sodium Silicate</b>	1	1	1	1	1	1	X	1	1	X	X	1
<b>Sodium Silicofluoride</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Sodium Stannate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Sulfate</b>	1	1	1	1	1	1	X	1	2	4	1	1
<b>Sodium Sulfide and Sulfite</b>	1	1	1	1	1	1	X	1	2	4	1	1
<b>Sodium Sulfoyanide</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Tartrate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Tetraborate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Tetraphosphate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Tetrasulfide</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Thioarsenate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Thiocyanate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Thiosulfate</b>	2	2	1	1	1	1	X	1	2	4	1	1
<b>Sodium Trichloroacetate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sodium Triphosphate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Solvesso 100, 150</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Sorbitol</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sour Crude Oil</b>	3	3	4	1	1	1	X	4	4	4	4	4
<b>Sour Natural Gas</b>	3	3	4	1	1	1	X	4	4	4	4	4
<b>Sovasol No. 1, 2, and 3</b>	1	1	4	1	1	1	X	2	4	2	2	4



<b>Sovasol No. 73 and 74</b>	2	2	4	1	1	1	X	2	4	2	2	4
<b>Soybean Oil</b>	1	1	3	1	1	1	X	3	4	1	X	3
<b>Spry</b>	1	1	2	1	1	1	X	2	4	1	1	2
<b>SR-10 Fuel</b>	1	1	4	1	1	1	X	4	4	2	2	4
<b>SR-6 Fuel</b>	2	2	4	1	1	1	X	4	4	2	2	4
<b>Standard Oil Mobilube GX90-EP Lube</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Stannic Ammonium Chloride</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Stannic Chloride</b>	1	1	1	1	1	1	X	4	1	X	X	1
<b>Stannic Chloride, 50%</b>	1	1	1	1	1	1	X	4	1	X	X	1
<b>Stannic Tetrachloride</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Stannous Bisulfate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Stannous Bromide</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Stannous Chloride (15%)</b>	1	1	1	1	1	1	X	1	1	X	X	1
<b>Stannous Fluoride</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Stannous Sulfate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Stauffer 7700</b>	2	2	4	1	1	1	X	4	4	2	X	4
<b>Steam Below 400°F</b>	4	4	1	4	1	1	X	4	4	4	4	2
<b>Steam, 400° - 500°F</b>	4	4	3	4	1	1	X	4	4	4	4	4
<b>Steam, Above 500°F</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Stearic Acid</b>	2	2	2	X	1	1	X	2	2	X	X	2
<b>Stoddard Solvent</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Strontium Acetate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Strontium Carbonate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Strontium Chloride</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Strontium Hydroxide</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Strontium Nitrate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Styrene (Monomer)</b>	4	4	4	2	1	1	X	4	4	4	X	4
<b>Succinic Acid</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sucrose Solutions</b>	1	1	1	1	1	1	X	2	1	4	4	1

<b>Sulfamic Acid</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sulfanilic Acid</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sulfanilic Chloride</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Sulfanilimide</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Sulfite Liquors</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sulfolane</b>	2	2	1	2	1	1	1	2	X	X	X	X
<b>Sulfonated Oils</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Sulfonic Acid</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sulfonyl Chloride</b>	3	3	1	3	2	2	X	1	1	4	4	1
<b>Sulfur</b>	4	4	1	1	1	1	X	1	4	4	X	1
<b>Sulfur (Molten)</b>	4	4	3	1	1	1	X	3	4	4	4	3
<b>Sulfur Chloride</b>	4	4	4	1	1	1	X	4	4	4	X	4
<b>Sulfur Dioxide, Dry</b>	4	4	1	4	1	1	X	4	2	4	X	2
<b>Sulfur Dioxide, Liquidified under pressure</b>	4	4	1	4	1	1	X	4	4	4	X	2
<b>Sulfur Dioxide, Wet</b>	4	4	1	4	1	1	X	2	4	4	X	1
<b>Sulfur Hexafluoride</b>	2	2	1	3	2	2	3	1	X	X	X	X
<b>Sulfur Liquors</b>	2	2	2	1	1	1	X	2	2	4	X	2
<b>Sulfur Monochloride</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Sulfur Tetrafluoride</b>	X	X	X	X	2	2	X	X	X	X	X	X
<b>Sulfur Trioxide Dry</b>	4	4	2	1	1	1	X	4	3	4	X	2
<b>Sulfuric Acid (20% Oleum)</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sulfuric Acid, 3 Molar to 158°F</b>	2	2	1	1	1	1	X	2	3	2	4	1
<b>Sulfuric Acid, Concentrated Room Temp</b>	X	X	3	1	1	1	X	X	X	X	3	X
<b>Sulfuric Acid, Concentrated to 158°F</b>	4	X	4	1	1	1	X	4	4	4	4	4
<b>Sulfuric Chlorohydrin (Chlorosulfonic Acid)</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Sulfurous Acid</b>	2	2	2	1	1	1	X	2	2	4	3	2
<b>Sunoco #3661</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Sunoco All purpose grease</b>	1	1	4	1	1	1	X	2	4	1	1	4

<b>Sunoco SAE 10</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Sunsafe (Fire resist. hydr. fluid)</b>	1	1	4	1	1	1	X	2	4	4	4	4
<b>Super Shell Gas</b>	1	1	4	1	1	1	X	2	4	2	2	4
<b>Surfuryl Chloride</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Swan Finch EP Lube</b>	1	1	4	1	1	1	X	4	4	1	1	4
<b>Swan Finch Hypoid-90</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>– T –</b>												
<b>Tallow</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Tannic Acid (10%)</b>	1	1	1	1	1	1	X	1	2	4	X	1
<b>Tar, bituminous</b>	2	2	4	1	1	1	X	3	4	4	X	4
<b>Tartaric Acid</b>	1	1	2	1	1	1	X	2	4	X	1	2
<b>Tellone II</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Terephthalic Acid</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Terpineol</b>	2	2	3	1	1	1	X	4	4	X	2	3
<b>Terpinyl Acetate</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Tertiary Amyl Methyl Ether (TAME)</b>	X	X	X	X	2	1	X	X	X	X	X	X
<b>Tertiary Butyl Catechol or p-tert-butylcatechol</b>	4	4	2	1	1	1	X	2	2	4	4	2
<b>Tertiary Butyl Mercaptan</b>	4	4	4	1	1	1	X	X	X	X	X	X
<b>Tetrabromoethane</b>	4	4	4	1	1	1	X	4	4	4	X	4
<b>Tetrabromomethane</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Tetrabutyl Titanate</b>	2	2	1	1	1	1	X	2	2	X	X	2
<b>Tetrachloroethylene</b>	4	4	4	1	1	1	X	4	4	4	4	4
<b>Tetrachoroethane</b>	4	4	4	1	1	1	X	4	4	4	4	4
<b>Tetraethyl Lead</b>	2	2	4	1	1	1	X	2	4	X	X	4
<b>Tetraethyl Lead "Blend"</b>	2	2	4	1	1	1	X	4	4	X	X	4
<b>Tetraethyl Orthosilicate (TEOS)</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Tetrahydrofuran</b>	4	4	2	4	1	1	X	4	4	4	3	2
<b>Tetralin</b>	4	4	4	1	1	1	X	4	4	X	X	4
<b>Tetramethyl Ammonium Hydroxide</b>	3	3	1	3	1	1	X	1	1	4	4	1

<b>Tetramethylcyclotetrasiloxane (TMCTS)</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Tetramethyldihydropyridine</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Tetramethyldihydropyridine</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Tetraphosphoglucosate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Tetraphosphoric Acid</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Texaco 3450 Gear Oil</b>	1	1	4	1	1	1	X	4	4	1	1	4
<b>Texaco Capella A and AA</b>	1	1	4	1	1	1	X	2	4	1	2	4
<b>Texaco Meropa 220 (No Lead)</b>	1	1	4	1	1	1	X	2	4	1	2	4
<b>Texaco Regal B</b>	1	1	4	1	1	1	X	4	4	1	1	4
<b>Texaco Uni-Temp Grease</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Texamatic "A" 1581 Fluid</b>	1	1	4	1	1	1	X	2	4	1	2	4
<b>Texamatic "A" 3401 Fluid</b>	1	1	4	1	1	1	X	2	4	1	2	4
<b>Texamatic "A" 3525 Fluid</b>	1	1	4	1	1	1	X	2	4	1	2	4
<b>Texamatic "A" 3528 Fluid</b>	1	1	4	1	1	1	X	2	4	1	2	4
<b>Texamatic "A" Transmission Oil</b>	1	1	4	1	1	1	X	2	4	1	2	4
<b>Texas 1500 Oil</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Therminol 44</b>	4	4	4	1	1	1	X	4	X	4	X	4
<b>Therminol 55</b>	2	2	4	1	1	1	X	4	X	2	X	4
<b>Therminol 66</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Therminol FR</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Therminol VP-1, 60, 65</b>	4	4	4	1	1	1	X	4	X	4	X	4
<b>Thio Acid Chloride</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Thioamyl Alcohol</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Thiodiacetic Acid</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Thioethanol</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Thioglycolic Acid</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Thiokol TP-90B</b>	4	4	1	1	1	1	X	2	4	X	X	1
<b>Thiokol TP-95</b>	4	4	1	1	1	1	X	2	4	X	X	1
<b>Thionyl Chloride</b>	2	2	4	1	1	1	X	4	4	4	3	4

<b>Thiophene (Thiofuran)</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Thiophosphoryl Chloride</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Thiourea</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Thorium Nitrate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Tidewater Multigear, 140 EP Lube</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Tidewater Oil-Beedol</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Tin Ammonium Chloride</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Tin Chloride</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Tin Tetrachloride</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Titanic Acid</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Titanium Dioxide</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Titanium Sulfate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Titanium Tetrachloride</b>	2	2	4	1	1	1	X	4	4	4	4	4
<b>Toluene</b>	4	4	4	1	2	1	X	4	4	4	4	4
<b>Toluene Bisodium Sulfite</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Toluene Diisocyanate (TDI)</b>	4	4	2	4	1	1	X	4	4	4	X	2
<b>Toluene Sulfonyl Chloride</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Toluenesulfonic Acid</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Toluidine</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Toluol</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Toluquinone</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Tolylaldehyde</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Transformer Oil</b>	1	1	4	1	1	1	X	2	4	2	1	4
<b>Transmission Fluid Type A</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Triacetin</b>	2	2	1	4	1	1	X	2	3	4	4	1
<b>Triaryl Phosphate</b>	4	4	1	1	1	1	X	4	4	4	4	1
<b>Tribromomethylbenzene</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Tributoxyethyl Phosphate</b>	4	4	1	1	1	1	X	4	2	4	4	1
<b>Tributyl Citrate</b>	3	3	1	3	1	1	X	1	1	4	4	1

<b>Tributyl Mercaptan</b>	4	4	4	1	1	1	X	4	4	4	X	4
<b>Tributyl Phosphate</b>	4	4	1	4	1	1	X	4	4	4	4	2
<b>Tributylamine</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Trichloroacetic Acid</b>	2	2	2	3	1	1	X	4	2	4	4	2
<b>Trichloroacetyl Chloride</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Trichlorobenzene</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Trichloroethane</b>	4	4	4	1	1	1	X	4	4	4	4	4
<b>Trichloroethanolamine</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Trichloroethylene</b>	3	3	4	1	1	1	X	4	4	4	4	4
<b>Trichloromethane</b>	4	4	4	1	1	1	X	4	4	4	4	4
<b>Trichloronitromethane (Chloropicrin)</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Trichlorophenylsilane</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Trichloropropane</b>	4	4	4	1	1	1	X	4	4	4	4	4
<b>Trichlorosilane</b>	4	4	4	1	1	1	X	4	4	4	4	4
<b>Tricresyl Phosphate</b>	4	4	1	2	1	1	X	3	2	4	4	1
<b>Triethanol Amine</b>	3	3	2	4	1	1	X	2	2	4	4	2
<b>Triethyl Phosphate</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Triethylaluminum</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Triethylborane</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Triethylene Glycol</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Triethylenetetramine</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Trifluoroacetic Acid</b>	3	3	1	3	2	2	X	1	1	4	4	1
<b>Trifluoroethane</b>	4	4	4	1	1	1	X	4	4	4	4	4
<b>Trifluoromethane</b>	4	4	4	1	1	1	X	4	4	4	4	4
<b>Trifluorovinylchloride</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Triisopropylbenzylchloride</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Trimethylamine</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Trimethylamine (TMA)</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Trimethylbenzene</b>	2	2	4	1	1	1	X	4	4	4	3	4

<b>Trimethylborate (TMB)</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Trimethylpentane</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Trinitrololuene (TNT)</b>	4	4	4	2	1	1	X	2	4	4	X	4
<b>Trioctyl Phosphate</b>	4	4	1	2	1	1	X	4	4	4	4	1
<b>Triphenylphosphite</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Tripoly Phosphate</b>	4	4	1	2	1	1	X	3	4	4	4	1
<b>Tripotassium Phosphate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Trisodium Phosphate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Tritium</b>	X	X	X	X	X	X	X	X	X	X	X	X
<b>Tung Oil (China Wood Oil)</b>	1	1	4	1	1	1	X	2	4	X	3	3
<b>Tungsten Hexafluoride</b>	X	X	X	X	2	2	X	X	X	X	X	X
<b>Tungstic Acid</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Turbine Oil</b>	1	1	4	1	1	1	X	4	4	1	1	4
<b>Turbine Oil #15 (MIL-L-7808A)</b>	2	2	4	1	1	1	X	4	4	2	4	4
<b>Turbo Oil #35</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Turpentine</b>	1	1	4	1	1	1	X	4	4	2	4	4
<b>Type I Fuel (MIL-S-3136)(ASTM Ref. Fuel A)</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Type II Fuel MIL-S-3136</b>	2	2	4	1	1	1	X	4	4	3	2	4
<b>Type III Fuel MIL-S-3136(ASTM Ref. Fuel B)</b>	2	2	4	1	1	1	X	4	4	3	2	4
<b>– U –</b>												
<b>Ucon Hydrolube J-4</b>	1	1	1	1	1	1	X	2	1	4	4	1
<b>Ucon Lubricant 50-HB-100</b>	1	1	1	1	1	1	X	1	1	X	X	1
<b>Ucon Lubricant 50-HB-260</b>	1	1	1	1	1	1	X	1	1	X	X	1
<b>Ucon Lubricant 50-HB-5100</b>	1	1	1	1	1	1	X	1	1	X	X	1
<b>Ucon Lubricant 50-HB55</b>	1	1	1	1	1	1	X	1	1	X	X	1
<b>Ucon Lubricant 50-HB-660</b>	1	1	1	1	1	1	X	1	1	X	X	1
<b>Ucon Lubricant LB-1145</b>	1	1	1	1	1	1	X	1	1	X	X	1
<b>Ucon Lubricant LB-135</b>	1	1	1	1	1	1	X	1	1	X	X	1

<b>Ucon Lubricant LB-285</b>	1	1	1	1	1	1	X	1	1	X	X	1
<b>Ucon Lubricant LB-300X</b>	1	1	1	1	1	1	X	1	1	X	X	1
<b>Ucon Lubricant LB-625</b>	1	1	1	1	1	1	X	1	1	X	X	1
<b>Ucon Lubricant LB-65</b>	1	1	1	1	1	1	X	1	2	X	X	1
<b>Ucon Oil 50-HB-280x</b>	2	2	1	3	1	1	1	2	X	X	X	X
<b>Ucon Oil Heat Transfer Fluid 500 (Polyalkalene Glycol)</b>	1	1	1	1	1	1	X	1	1	X	X	1
<b>Ucon Oil LB-385</b>	1	1	1	1	1	1	X	1	1	X	X	1
<b>Ucon Oil LB-400X</b>	1	1	1	1	1	1	X	1	1	X	X	1
<b>Undecylenic Acid</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Undecylic Acid</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Univis 40 (Hydr. Fluid)</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Univolt #35 (Mineral Oil)</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Unsymmetrical Dimethyl Hydrazine (UDMH)</b>	2	2	1	4	1	1	X	2	2	X	X	1
<b>UPDI(Ultrapure Deionized Water)</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Uranium Hexachloride</b>	X	X	X	1	1	1	X	X	X	X	X	X
<b>Uranium Hexafluoride</b>	X	X	X	X	X	X	X	X	X	X	X	X
<b>Uranium Sulfate</b>	X	X	X	X	X	X	X	X	X	X	X	X
<b>Uric Acid</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>– V –</b>												
<b>Valeraldehyde</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Valeric Acid</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Vanadium Oxide</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Vanadium Pentoxide</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Varnish</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Vegetable Oil</b>	1	1	3	1	1	1	X	3	4	1	X	3
<b>Versilube F44, F55</b>	1	1	1	1	1	1	1	1	X	X	X	X
<b>Versilube F-50</b>	1	1	1	1	1	1	X	1	1	1	1	1
<b>Vinegar</b>	2	2	2	3	1	1	X	2	2	4	4	2



<b>Vinyl Acetate</b>	2	2	1	3	2	1	1	2	X	X	X	X
<b>Vinyl Benzene</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Vinyl Benzoate</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Vinyl Chloride</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Vinyl Fluoride</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Vinylidene Chloride</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Vinylpyridine</b>	2	2	4	1	1	1	X	4	4	4	3	4
<b>Vitriol (White)</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>VV-H-910</b>	3	3	1	1	1	1	X	2	1	2	4	2
<b>– W –</b>												
<b>Wagner 21B Brake Fluid</b>	3	3	1	4	1	1	X	2	1	X	X	2
<b>Water</b>	1	2	1	2	1	1	X	2	1	4	4	1
<b>Wemco C</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>Whiskey and Wines</b>	1	1	1	1	1	1	X	1	1	4	4	1
<b>White Liquor</b>	1	1	1	1	1	1	1	1	X	X	X	X
<b>White Oil</b>	1	1	4	1	1	1	X	2	4	1	1	4
<b>White Pine Oil</b>	2	2	4	1	1	1	X	4	4	X	X	4
<b>Wolmar Salt</b>	1	1	1	1	1	1	X	2	1	2	1	1
<b>Wood Alcohol</b>	1	1	1	4	1	1	X	1	1	4	4	1
<b>Wood Oil</b>	1	1	4	1	1	1	X	2	4	1	3	3
<b>– X –</b>												
<b>Xenon</b>	1	1	1	1	1	1	X	1	1	1	1	1
<b>Xylene</b>	4	1	4	1	1	1	X	4	4	4	4	4
<b>Xylidenes-Mixed-Aromatic Amines</b>	3	3	1	4	1	1	X	4	4	4	4	4
<b>Xylol</b>	4	4	4	1	1	1	X	4	4	4	4	4
<b>– Z –</b>												
<b>Zeolites</b>	1	1	1	1	1	1	X	1	1	X	X	1
<b>Zinc Acetate</b>	2	2	1	4	1	1	X	2	4	4	4	1
<b>Zinc Ammonium Chloride</b>	3	3	1	3	1	1	X	1	1	4	4	1

<b>Zinc Chloride</b>	1	1	1	1	1	1	X	1	1	4	X	1
<b>Zinc Chromate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Zinc Cyanide</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Zinc Diethyldithiocarbamate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Zinc Dihydrogen Phosphate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Zinc Fluorosilicate</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Zinc Hydrosulfite</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Zinc Naphthenate</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Zinc Nitrate</b>	1	1	1	1	1	1	X	X	1	4	X	1
<b>Zinc Oxide</b>	1	1	1	1	1	1	X	X	1	4	X	1
<b>Zinc Phenolsulfonate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Zinc Phosphate</b>	1	1	1	1	1	1	X	1	1	4	1	1
<b>Zinc Salts</b>	1	1	1	1	1	1	X	1	1	4	1	1
<b>Zinc Silicofluoride</b>	X	X	X	X	1	1	X	X	X	X	X	X
<b>Zinc Stearate</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Zinc Sulfate</b>	1	1	1	1	1	1	X	1	2	4	4	1
<b>Zinc Sulfide</b>	3	3	1	3	1	1	X	1	1	4	4	1
<b>Zirconium Nitrate</b>	1	1	1	1	1	1	X	1	2	4	4	1

Butadiene BR	Isoprene IR	Natural Rubber NR	Hypalon CSM	Fluorosilicone FVMQ	Silicone MQ, VMQ, PVMQ
X	X	X	X	X	X
2	2	2	3	4	2
4	4	4	2	1	2
1	1	1	1	1	2
X	X	X	X	X	X
2	2	2	1	2	1
2	2	2	3	2	1
4	4	4	3	4	3
2	2	2	2	4	2
1	1	1	1	1	2
4	4	4	3	4	4
1	1	1	1	1	2
X	X	X	X	X	X
4	4	4	4	2	X
4	4	4	4	4	4
4	4	4	4	2	X
4	4	4	4	4	4
4	4	4	4	4	4
4	4	4	4	1	4
2	2	2	2	X	2
X	X	X	X	X	X

X	X	X	X	X	X
4	4	4	4	2	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
1	1	1	1	1	2
4	4	4	4	2	X
X	3	3	3	4	4
X	X	X	X	X	X
4	4	4	1	1	2
4	4	4	1	1	2
4	4	4	4	2	4
4	4	4	1	1	2
4	4	4	1	1	2
4	4	4	4	3	3
4	4	4	4	3	3
4	4	4	4	4	4
2	2	2	1	1	1
4	4	4	2	1	1
4	4	4	4	2	1
4	4	4	4	4	2
4	4	4	4	2	X
4	4	4	2	1	2
4	4	4	2	1	2
4	4	4	4	2	4
4	4	4	4	2	X
1	1	1	1	1	2
4	4	4	2	1	2

4	4	4	2	1	2
4	4	4	2	1	2
4	4	4	2	1	2
4	4	4	4	2	X
4	4	4	4	2	X
4	4	4	4	2	X
4	4	4	2	1	2
X	X	X	X	X	X
1	1	1	1	1	2
1	1	1	1	1	2
4	1	1	4	4	4
1	1	1	1	1	1
1	1	1	1	1	2
1	1	1	1	1	2
X	X	X	X	X	X
1	1	2	1	1	2
X	X	X	X	X	X
1	1	1	1	1	2
X	X	X	X	X	2
4	4	4	2	1	2
1	1	1	1	X	2
1	1	1	1	1	2
X	X	X	X	X	2
1	1	1	1	1	2
1	1	1	1	1	1
1	1	1	1	1	2
1	1	1	1	1	1
1	1	1	1	4	1
4	4	4	3	3	4

4	4	4	2	1	2
2	2	2	4	4	2
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
4	4	4	4	4	2
4	4	4	4	4	4
1	1	1	1	4	1
4	4	4	2	4	X
4	4	4	2	4	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
X	X	1	1	X	X
1	1	1	1	1	2
X	X	1	1	X	X
X	X	1	1	X	X
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
X	X	1	1	X	X
X	X	X	X	X	X
1	1	1	1	1	2
2	2	2	1	1	1

3	3	3	1	1	1
X	X	1	1	X	X
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
X	X	3	1	X	X
1	1	1	1	X	2
1	1	1	1	1	2
1	1	1	1	1	2
X	X	X	X	X	X
X	1	1	X	X	X
X	1	1	X	X	X
X	1	1	1	X	1
X	1	1	1	X	1
X	1	1	1	X	1
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
X	1	1	1	3	1
1	1	1	1	1	2
1	1	1	1	X	X
1	1	1	1	X	X
1	1	1	1	X	X
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2

1	1	1	1	1	2
1	1	1	1	1	2
4	4	4	4	4	4
2	2	2	2	1	4
4	4	4	1	X	X
4	4	4	2	1	2
4	4	4	4	2	4
4	4	4	4	2	4
4	4	4	4	2	X
4	4	4	4	2	X
4	4	4	4	1	4
1	1	1	1	1	2
1	1	1	1	1	2
X	X	X	X	X	X
4	4	4	2	1	2
4	4	4	4	2	4
4	4	4	4	2	4
4	4	4	4	2	4
4	4	4	4	2	2
2	2	2	2	2	2
4	4	4	4	3	4
2	2	2	2	2	3
4	2	2	4	2	3
4	4	4	4	3	4
1	1	1	1	1	2
1	1	1	1	1	2
X	X	X	X	X	X
4	4	4	2	1	2



X	X	X	X	X	X
X	X	X	X	X	X
4	4	4	2	1	2
4	4	4	2	1	4
4	4	4	2	1	4
4	4	4	4	3	4
4	4	4	4	2	X
X	X	X	X	X	X
X	X	X	X	X	X
1	1	1	1	1	2
4	4	4	2	1	4
4	4	4	2	1	4
X	X	X	X	X	X
X	X	X	X	X	X
4	4	4	2	1	4
4	4	4	2	1	4
4	4	4	2	1	4
4	4	4	2	1	4
4	4	4	2	1	4
X	X	X	X	X	X
X	X	X	X	X	X
1	1	1	1	1	1
4	4	4	4	2	2
4	4	4	4	2	3
1	1	1	1	1	1
4	4	4	4	2	4
1	1	2	1	1	1
X	X	X	X	X	X
X	X	X	X	X	X

X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
1	1	1	1	1	2
4	4	4	4	2	4
1	1	1	1	1	2
4	4	4	2	2	4
4	4	4	2	1	1
4	4	4	4	1	4
4	4	4	4	1	3
4	4	4	4	2	4
X	X	X	X	X	X
4	4	4	2	1	4
4	4	4	4	1	4
4	4	4	4	2	4
X	X	X	X	X	X
4	4	4	4	2	4
4	4	4	4	1	4
X	X	X	X	X	X
4	4	4	4	1	4
4	4	2	4	4	4
X	X	X	X	X	X
4	4	4	3	X	4
X	X	X	2	4	3
X	X	X	X	X	X
X	X	X	X	X	X

4	4	4	4	2	4
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	2
1	1	1	1	1	1
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	1
X	X	X	X	X	X
2	1	1	1	1	1
4	4	4	4	1	4
4	4	4	4	1	4
1	1	1	1	1	1
X	X	X	X	X	X
1	1	1	1	1	1
4	4	4	1	4	2
X	X	X	X	X	X
4	4	4	4	2	X
4	4	4	4	2	X
4	4	4	4	3	4
X	X	X	X	X	X
4	4	4	1	2	4
4	4	4	4	2	X
4	4	4	4	2	X
4	4	4	4	2	X

4	4	4	4	2	X
4	4	4	3	1	4
4	4	4	4	2	X
4	4	4	4	1	X
4	4	4	4	2	4
4	4	4	4	2	X
1	1	1	1	1	2
4	4	X	X	1	X
4	4	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
4	4	4	4	2	X
X	X	X	X	X	X
4	4	4	4	2	X
1	1	1	1	1	2
4	4	4	2	2	2
X	X	X	X	X	X
4	4	4	4	1	4
4	4	4	4	1	4
1	1	1	1	1	2
4	4	4	4	1	4
4	4	4	4	2	X
4	4	4	4	2	X
3	3	3	3	3	3
3	3	3	3	3	3
3	3	3	3	3	3
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2

1	1	1	1	1	2
X	X	X	X	X	X
X	X	X	X	X	X
3	3	3	3	3	3
4	4	4	4	2	1
2	2	3	1	2	2
X	X	X	X	X	X
2	2	2	4	2	2
X	X	X	X	X	X
2	2	2	1	2	2
1	1	1	1	1	1
1	1	1	1	1	2
4	4	4	4	2	X
4	4	4	4	2	X
4	4	4	4	2	X
4	4	4	4	2	4
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	2	4	3
4	4	4	4	2	4
2	2	2	2	2	2
4	4	4	4	2	4
1	1	1	1	4	4
1	1	1	1	4	4

X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	4	X	4
4	4	4	2	X	4
1	1	1	1	1	2
4	4	4	4	2	4
4	4	4	4	4	4
4	4	4	4	4	4
4	4	4	1	2	4
4	4	4	4	1	4
1	1	1	1	1	2
4	4	4	4	2	4
4	4	4	4	2	X
4	4	4	4	1	X
X	X	X	X	X	X
X	X	X	X	X	X
1	1	1	1	1	2
X	X	X	X	X	X
4	4	4	4	1	2
X	X	X	X	X	X
4	4	4	4	1	4
4	4	4	2	3	4
4	4	4	2	3	4
4	4	4	2	3	4
1	1	1	1	1	2
1	1	1	1	1	2
4	4	4	4	3	4
4	4	4	2	1	2
4	4	4	4	4	4

4	4	4	2	2	X
4	4	4	4	4	2
1	1	1	1	1	2
2	2	2	2	2	2
2	2	2	2	2	2
4	4	4	4	4	4
1	1	1	1	1	2
4	4	4	4	1	X
X	X	X	X	X	X
4	4	4	4	1	X
4	4	4	2	4	4
4	4	4	4	4	X
1	1	1	1	1	2
4	4	4	4	2	2
4	4	4	2	1	2
4	4	4	4	3	4
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
4	4	4	4	X	4
1	1	1	1	1	2
4	X	4	4	2	X
1	1	1	1	1	2
4	4	4	4	2	X
4	4	4	4	2	X
4	4	4	4	2	4
4	4	4	4	4	4
4	X	X	4	X	X
1	1	1	1	1	2

1	1	1	1	1	2
4	4	4	4	2	X
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
X	X	X	X	1	X
4	1	1	2	4	4
1	1	1	1	1	2
4	4	4	4	2	X
1	1	1	1	1	2
1	1	1	1	1	2
4	4	4	1	3	3
1	1	1	1	1	1
X	X	X	X	X	X
1	1	1	1	1	1
1	1	1	1	1	2
1	1	1	1	1	1
1	1	1	1	1	2
X	X	X	X	X	X
1	1	1	1	X	1
1	1	1	1	1	1
1	1	1	1	1	2
1	1	1	1	1	1
1	1	1	1	1	2
1	1	1	1	1	1



2	2	2	1	2	2
1	1	1	1	1	2
1	1	1	1	1	2
X	X	X	X	X	X
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	1
X	X	X	X	X	X
X	X	X	X	X	X
1	1	1	1	1	2
1	1	1	1	X	1
1	1	1	1	1	2
1	1	1	1	1	2
X	X	X	X	X	X
1	1	1	1	1	2
1	1	1	1	X	X
4	4	4	4	2	X
4	4	4	4	2	X
1	1	1	1	1	2
2	2	2	1	1	1
2	2	2	1	1	1
1	1	1	1	1	2
2	2	2	1	1	1
1	1	1	1	1	2
1	1	1	1	1	2
4	4	4	4	2	X
4	4	4	4	2	X
4	4	4	4	2	X
1	1	1	1	1	1

4	4	4	2	1	2
4	4	4	2	1	2
2	2	2	X	4	2
4	4	4	2	1	2
4	4	4	2	1	2
4	4	4	2	1	X
X	X	X	X	X	X
2	2	2	2	2	2
4	4	4	4	1	4
4	4	4	4	1	4
1	1	1	1	1	1
1	1	1	1	1	1
4	4	4	4	1	4
4	4	4	4	2	4
2	2	2	2	2	1
X	X	X	X	X	X
4	4	4	4	2	4
4	4	4	4	2	4
2	1	1	1	1	1
1	1	1	1	1	2
1	1	1	1	1	1
1	1	1	1	1	2
1	1	1	1	1	2
4	4	4	4	4	4
4	4	4	4	4	4
4	4	4	4	4	4
1	1	1	1	1	1
1	1	1	1	1	2

1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
X	X	X	X	X	X
4	4	4	4	2	4
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
4	4	4	2	3	4
4	4	4	2	1	2
X	X	X	X	X	X
4	4	4	3	2	4
1	1	1	1	1	2
X	X	X	X	X	X
4	4	4	4	2	X
4	4	4	3	2	4
4	4	4	4	2	4
1	1	1	1	1	2
4	4	4	4	1	4
4	4	4	4	1	4
4	4	4	4	2	X
X	X	X	X	X	X
X	X	X	X	X	X
4	4	4	3	2	X
4	4	4	4	2	X
4	4	4	4	4	4
X	X	X	X	X	X

4	4	4	4	4	4
X	X	X	X	X	X
4	4	4	4	2	X
1	1	1	1	1	2
4	4	4	1	4	X
4	4	4	4	4	4
X	X	X	X	X	X
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
4	4	4	4	2	4
4	4	4	4	2	4
4	4	4	4	2	X
4	4	4	4	2	X
4	4	4	4	2	X
4	4	4	4	2	4
4	4	4	4	2	X
4	4	4	4	2	4
4	4	4	2	1	2
4	4	4	4	1	4
4	4	4	2	1	2
1	1	1	1	1	2
4	4	4	4	2	X
4	4	4	4	4	4
1	1	1	1	1	2
4	4	4	4	2	4
1	1	1	1	1	2

4	4	4	4	2	4
4	4	4	4	2	X
4	4	4	4	2	X
X	X	X	X	X	X
4	4	4	4	4	4
4	4	4	4	2	4
1	1	1	1	1	2
4	4	4	4	2	X
X	X	X	X	X	X
4	4	4	2	1	X
X	X	X	X	X	X
4	4	4	4	2	X
1	1	1	1	X	1
4	4	4	4	2	2
4	4	4	4	2	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
4	4	4	4	2	X
4	4	4	4	2	X
4	4	4	4	2	X
4	4	4	2	1	4
1	1	1	1	1	1

4	4	4	4	1	4
4	4	4	2	1	4
4	4	4	4	1	4
X	X	X	X	X	X
X	X	X	X	X	X
1	1	1	1	1	2
1	1	1	1	1	1
1	1	1	1	1	2
1	1	1	1	1	1
X	X	X	X	X	X
X	X	X	X	X	X
1	1	1	1	1	2
4	4	4	3	1	1
4	4	4	2	1	2
4	4	4	4	2	X
1	1	1	1	1	1
4	4	4	4	2	2
1	1	1	X	X	X
4	4	4	4	X	4
4	4	4	2	1	4
4	1	1	2	4	4
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	2	1	1
1	1	1	1	1	1
1	1	1	1	1	2
X	X	X	X	X	X
X	X	X	X	X	X

1	1	1	1	1	1
1	1	1	1	1	1
2	2	2	1	1	1
2	2	2	1	1	1
2	2	1	1	1	1
4	4	4	2	1	1
4	4	4	2	2	1
4	4	4	4	1	4
4	4	4	4	1	4
X	X	X	X	X	X
4	4	4	4	X	4
4	4	4	4	X	4
4	4	4	4	2	X
4	4	4	4	2	X
4	4	4	4	2	4
4	4	4	4	2	X
4	4	4	4	2	4
X	X	X	X	X	X
X	X	X	X	X	X
4	4	4	2	1	4
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
4	4	4	4	1	4
4	4	4	2	1	4
4	4	4	4	4	4

4	4	4	4	2	X
4	4	4	2	1	2
X	X	X	X	X	X
4	4	4	2	1	2
4	4	4	4	2	X
4	4	4	4	1	4
4	4	4	4	1	4
4	4	4	4	2	4
4	4	4	4	2	X
4	4	4	4	1	4
4	4	4	3	1	2
X	X	X	2	4	3
1	1	1	1	1	1
2	2	2	2	1	1
2	1	1	1	1	1
4	4	4	4	2	4
4	4	4	2	1	2
1	1	1	1	1	2
X	X	X	X	X	X
1	1	1	1	1	2
1	1	1	1	1	2
4	4	4	4	4	4
4	4	4	2	4	4
1	1	1	1	1	2
X	X	X	X	X	X
X	X	X	X	X	X
4	4	4	2	1	2
4	4	4	3	2	4



4	4	4	4	2	X
4	4	4	4	X	X
4	4	4	4	3	3
X	X	X	X	X	X
4	4	4	4	2	X
4	4	4	4	2	4
1	1	1	1	1	2
4	4	4	4	3	4
4	4	4	4	2	X
4	4	4	4	3	2
4	4	4	4	2	2
4	4	4	4	2	X
4	4	4	4	2	X
4	4	4	4	4	3
4	4	4	4	2	X
1	1	1	1	1	2
4	4	4	4	2	4
4	4	4	4	2	4
4	4	4	4	2	4
4	4	4	4	2	X
4	4	4	4	2	X
4	4	4	4	2	X
1	1	1	1	1	2
4	4	4	4	3	4
4	4	4	4	2	X
4	4	4	4	2	X
4	4	4	4	2	X

4	4	4	4	2	X
4	4	4	4	2	X
X	X	X	X	X	X
4	4	4	4	4	2
1	1	1	1	1	2
4	4	4	4	2	X
4	4	4	3	1	4
4	4	4	4	2	4
4	4	4	4	2	4
1	1	1	1	1	2
X	X	X	X	X	X
1	1	1	1	1	2
4	4	4	4	3	4
4	4	4	4	2	X
4	4	4	4	2	2
X	X	X	X	X	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
X	X	X	X	X	X
4	4	4	4	X	4
4	4	4	4	2	X
4	4	4	4	2	X
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
X	X	X	X	X	X
4	4	4	2	1	2
4	4	4	4	3	4

4	4	4	4	3	3
X	X	X	X	X	X
4	4	4	4	4	4
4	4	4	4	2	X
4	4	4	4	2	X
1	1	1	1	1	2
4	4	4	4	2	X
4	4	4	2	1	2
X	X	X	X	X	X
1	1	1	1	1	2
X	X	4	4	4	2
1	1	1	1	1	2
4	4	4	4	2	X
4	4	4	4	2	X
4	4	4	4	2	X
1	1	1	1	1	2
4	4	4	4	2	X
2	2	2	3	4	2
4	4	4	4	2	X
X	X	X	X	X	X
4	4	4	4	4	4
4	4	4	4	2	3
4	4	4	4	3	3
4	4	4	2	1	2
4	4	4	4	4	4
4	4	4	4	4	4
4	4	4	4	2	4
4	4	4	4	2	4
4	4	4	4	2	3

4	4	4	4	2	X
X	X	X	X	X	X
4	4	4	4	2	X
X	X	X	X	X	X
X	X	X	X	X	X
4	4	4	4	2	X
X	X	X	2	4	X
4	4	4	4	X	4
X	X	X	2	4	X
1	1	1	1	1	2
X	X	X	X	X	X
1	1	1	1	3	1
1	1	1	1	2	3
X	X	X	X	X	X
1	1	1	1	1	2
1	1	1	1	2	3
1	1	1	1	1	2
1	1	1	1	2	3
1	1	1	1	2	3
1	1	1	1	2	3
1	1	1	1	2	3
1	1	1	1	2	3
1	1	1	1	2	3
1	1	1	1	2	3
1	1	1	1	2	3
1	1	1	1	2	3
X	X	X	X	X	X
1	1	1	1	1	1
X	X	X	X	X	X

X	X	X	X	3	3
4	4	4	4	2	4
4	4	4	4	2	4
1	1	1	1	1	1
4	4	4	4	2	4
X	X	2	2	2	4
4	X	3	1	1	3
4	4	4	4	1	2
4	4	4	4	4	4
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	2	4	X
4	4	4	3	1	4
4	4	4	4	1	4
4	4	4	4	1	4
4	4	4	4	1	4
4	4	4	4	1	4
4	4	4	4	1	4
4	4	4	2	1	4
4	4	4	4	1	4
4	4	4	2	3	4
1	1	1	1	1	2
2	2	2	3	4	2
4	4	4	4	3	4
1	1	1	1	1	2
4	4	4	4	4	2
3	3	3	4	4	2
4	4	4	4	4	2
1	1	1	1	1	2

X	X	X	X	X	X
4	4	4	4	1	4
4	4	4	4	1	4
4	4	4	4	1	X
4	4	4	4	4	4
2	2	2	2	4	2
2	1	4	4	1	4
4	4	4	4	2	4
4	4	4	4	4	4
4	4	4	4	3	4
4	4	4	2	1	X
1	1	1	1	1	2
1	1	1	1	1	2
4	4	4	3	X	3
1	1	1	1	1	2
4	1	4	4	2	4
4	4	4	4	2	4
4	4	4	4	2	X
2	2	2	2	1	X
4	4	4	4	2	X
X	X	X	X	X	X
X	X	X	X	X	X
4	4	4	4	2	X
4	4	4	4	4	4
1	1	1	1	1	2
4	4	4	4	1	4
4	4	4	4	2	4
4	4	4	4	2	4
2	2	2	2	2	3

4	4	4	4	2	X
2	1	1	2	4	1
4	4	4	4	3	4
4	4	4	4	3	4
1	1	1	1	1	1
4	4	4	4	3	4
4	4	4	4	4	4
4	4	4	4	4	4
4	4	4	4	3	4
X	X	X	X	X	X
X	X	X	X	X	X
4	4	4	4	2	X
1	1	1	1	1	2
1	1	1	1	1	4
1	1	1	1	1	4
4	4	4	2	X	3
X	X	X	1	1	1
X	X	X	1	2	1
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	2	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
X	X	X	X	X	X
X	X	X	X	X	X
1	1	1	1	1	2

1	1	1	1	1	2
1	1	1	1	1	2
X	X	X	X	X	X
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
4	4	4	4	2	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
4	4	4	4	2	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	1	2	1
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
2	2	2	2	4	2
1	1	1	1	1	2
X	X	X	X	X	X
X	X	4	1	2	4
X	X	4	2	X	4
X	X	4	1	X	4
X	X	X	X	X	X
X	X	1	X	X	4
X	X	4	1	X	4
X	X	1	X	X	X



4	4	2	1	3	4
4	4	4	2	2	4
4	4	4	2	2	4
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	1	1	1	4	4
X	X	X	X	X	X
X	X	1	1	2	4
X	X	1	1	X	4
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
4	4	4	4	X	4
X	X	X	X	X	X
X	X	1	1	4	4
X	X	4	X	2	4
X	X	X	X	X	X
X	X	2	2	X	X
X	X	1	1	X	X
X	X	1	X	X	X
X	X	4	2	X	4
X	X	X	X	X	X
X	X	1	1	X	X
X	X	2	1	X	X
X	X	1	4	X	X
X	X	4	1	X	4
X	X	4	1	X	4

X	X	X	X	X	X
X	X	X	X	X	X
X	X	4	1	X	4
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
4	4	4	4	1	1
4	4	4	3	1	4
4	4	4	4	1	1
2	1	3	2	1	2
4	4	4	4	X	4
X	X	X	X	X	X
4	4	4	4	X	X
4	4	4	3	X	4
4	4	4	3	X	4
4	4	4	4	4	4
X	X	X	X	X	X
4	4	4	4	4	4
4	4	4	4	2	1
X	X	X	X	X	X
X	X	X	X	X	X
X	1	1	2	1	X
4	4	4	4	1	4
1	1	1	1	1	1
X	X	X	X	X	X
X	X	X	2	4	X
4	2	2	2	1	X
1	1	1	1	1	2

1	1	1	1	1	1
X	X	X	X	X	X
1	1	1	1	1	2
1	1	1	1	1	1
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
X	X	X	X	X	X
1	1	1	1	1	2
1	1	1	1	1	1
1	1	1	1	1	2
4	4	4	4	1	4
2	2	2	2	2	X
4	4	4	4	1	4
4	4	4	4	1	4
1	1	1	1	1	1
4	4	4	4	2	1
4	4	4	4	1	4
4	4	4	4	1	4
4	4	4	4	1	4
4	4	4	4	1	4
4	4	4	4	1	4
4	4	4	4	1	4
4	4	4	4	1	4
4	4	4	4	1	4
4	4	4	4	2	4
4	4	4	4	1	4

4	4	4	1	1	2
1	1	1	1	1	1
4	4	4	4	2	4
1	1	1	1	1	1
4	4	4	4	2	X
4	4	4	4	2	X
4	4	4	2	1	2
4	4	4	2	3	4
4	4	4	2	1	2
1	1	1	1	1	2
4	4	4	4	2	X
4	4	4	4	2	X
4	4	4	4	2	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
4	4	4	3	4	2
X	X	X	X	X	X
4	4	4	2	1	2
4	4	4	4	2	X
1	1	1	1	1	2
1	1	1	1	1	2
4	4	4	2	3	4
4	4	4	2	4	4
1	1	1	1	1	2
4	4	4	2	1	2
1	1	1	2	2	2
1	1	1	1	1	2

4	4	4	4	2	X
2	X	X	X	2	1
2	X	X	X	2	1
4	4	4	4	3	3
4	4	4	4	2	3
4	4	4	4	2	3
4	4	4	4	2	3
X	X	X	X	2	2
X	X	X	X	X	X
4	4	4	4	2	3
X	X	X	X	2	2
4	4	4	2	1	2
4	4	4	4	2	X
X	X	1	2	4	2
4	4	4	2	4	X
1	1	1	1	1	2
1	1	1	1	1	2
4	4	4	4	2	X
X	X	X	X	X	X
4	1	1	1	3	4
4	1	1	1	3	4
4	4	4	3	1	4
X	X	X	X	X	X
4	4	4	4	2	X
X	X	3	1	3	4
X	X	X	X	X	X
X	X	4	X	4	4

2	1	1	1	2	3
4	4	4	4	1	2
4	4	4	4	1	2
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	1	1	1	4	4
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
4	4	4	X	4	X
1	1	2	1	3	3
1	1	2	1	3	3
X	X	X	X	X	X
2	2	2	2	1	1
4	4	4	3	2	2
X	X	X	X	X	X
1	1	1	1	3	3
4	4	4	3	3	3
4	4	4	2	3	3
4	4	4	3	3	3
X	X	X	X	2	2
4	4	4	4	2	X
X	X	X	X	X	X
4	2	2	4	2	X
1	1	1	1	1	2

2	2	2	X	4	4
X	X	X	X	X	X
4	4	4	4	4	4
X	X	X	X	X	X
X	X	X	X	X	X
4	2	2	1	X	X
4	4	4	4	2	X
4	4	4	4	1	4
4	4	4	4	1	4
4	4	4	4	1	4
4	4	4	4	1	4
1	1	1	1	1	2
1	1	1	1	1	2
X	4	X	2	1	X
4	4	4	4	4	4
4	4	4	4	2	X
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
4	4	4	4	2	X
4	4	4	2	1	2
1	1	1	1	1	2
2	1	1	1	2	1
X	X	X	X	X	X
X	X	X	X	X	X
1	1	1	1	1	2
4	4	4	4	1	X
1	1	1	1	1	2

4	4	4	4	2	X
X	X	X	X	X	X
X	X	X	X	X	2
4	4	4	4	2	X
4	4	4	2	1	2
4	4	4	2	1	4
4	4	4	2	1	2
4	4	4	1	1	4
4	4	4	2	1	2
4	4	4	4	4	4
2	1	1	1	2	1
4	4	4	4	2	4
2	1	1	1	2	1
4	4	4	4	2	4
4	4	4	3	3	4
1	1	1	1	1	2
1	1	1	1	1	2
4	4	4	4	2	X
X	X	4	X	1	4
X	X	X	X	X	X
4	4	4	4	2	4
4	4	4	4	2	4
4	4	4	4	2	4
X	X	4	X	2	4
X	X	4	X	2	4
X	X	4	X	2	4
X	X	X	X	X	X



X	X	X	1	2	1
4	4	4	4	1	4
4	4	4	4	1	4
4	4	4	4	4	4
4	4	4	4	4	4
4	4	4	2	4	X
1	1	1	1	1	1
4	4	4	3	2	2
4	4	4	4	4	2
4	4	4	4	1	2
4	4	4	2	1	2
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
4	1	1	4	4	4
1	1	1	1	1	2
X	X	X	X	X	X
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
X	X	X	X	X	X
1	1	1	1	1	2
1	1	1	1	1	2
2	2	2	1	1	2
4	4	4	2	1	4

4	4	4	2	1	4
X	X	X	X	X	X
4	4	4	3	1	4
X	X	X	X	X	X
4	4	4	4	2	X
4	4	4	4	3	3
4	4	4	2	X	2
4	4	4	2	1	1
4	4	4	4	4	4
4	4	4	4	3	3
4	4	4	4	1	4
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
X	X	X	X	X	X
4	4	4	4	2	X
4	4	4	X	2	4
4	4	4	4	1	4
4	4	4	4	1	4
2	2	1	1	2	2

1	1	1	1	1	1
2	2	2	1	X	X
1	1	1	1	1	1
2	2	2	1	1	1
X	X	X	X	X	X
4	4	4	X	2	4
4	4	4	4	X	X
4	4	4	4	X	X
1	1	1	1	1	2
2	1	3	2	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
4	4	4	X	1	1
4	4	4	4	3	3
4	4	4	4	3	3

1	1	1	1	1	2
4	4	4	2	1	2
4	4	4	4	2	X
1	1	1	1	1	2
1	1	1	1	X	X
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	X	X
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	X	X
4	4	4	4	4	4
4	4	4	4	2	X
1	1	1	1	1	2
1	1	1	1	1	2
4	4	4	4	2	X
1	1	1	1	1	2
4	4	4	4	2	X
4	4	4	2	3	4
1	1	1	1	1	1
X	X	X	X	X	X
1	1	1	1	1	2
4	4	4	4	2	X
4	4	4	4	4	4

X	X	X	4	4	2
4	4	4	4	2	X
4	4	4	4	4	4
1	1	1	1	1	1
1	1	1	1	1	2
4	4	4	4	2	X
4	4	4	4	1	4
4	4	4	4	1	X
4	4	4	4	4	4
1	1	1	1	1	2
1	1	1	1	1	2
4	4	4	4	2	4
4	4	4	2	4	4
2	2	2	2	4	2
4	4	4	4	2	4
1	1	1	1	1	2
X	X	X	X	X	X
4	4	4	4	2	4
X	X	X	X	X	X
1	1	1	1	1	2
4	4	4	2	1	2
4	4	4	4	2	X
1	1	4	4	1	1
4	4	4	4	4	4
4	4	4	4	4	2
4	4	4	4	2	X
4	4	4	2	X	X
1	1	1	1	1	2
4	4	4	2	1	2

4	4	4	4	4	4
1	1	1	1	1	2
4	4	4	4	4	4
4	4	4	4	2	X
1	1	1	1	1	2
X	X	X	X	X	X
4	4	4	4	4	4
4	X	4	4	2	X
4	4	4	4	2	X
4	4	4	4	2	X
X	X	3	4	X	X
X	X	X	X	X	X
4	4	4	4	2	X
X	X	X	X	X	X
4	4	4	4	4	4
X	X	X	X	X	X
1	1	1	1	1	2
1	1	1	1	1	2
4	4	4	4	2	4
4	4	4	4	2	X
4	4	4	4	2	4
4	4	4	4	2	X
1	1	1	1	1	2
4	4	4	2	1	2
4	4	4	4	2	X
4	4	4	4	2	X
1	1	1	1	1	2
1	1	1	1	1	1
4	4	4	4	1	3

4	4	4	4	1	4
4	4	4	4	2	4
1	1	1	1	1	1
4	4	4	3	1	4
4	4	4	2	2	4
4	4	4	2	1	4
4	4	4	4	2	4
2	1	1	1	1	1
X	X	4	X	2	4
1	1	1	X	1	4
4	4	4	2	1	4
4	4	4	2	2	4
1	1	1	1	1	4
4	4	2	2	1	4
4	4	4	2	1	4
4	4	4	2	2	4
4	4	4	4	2	4
4	4	4	2	1	4
1	1	1	1	1	3
4	4	4	4	1	4
4	4	4	2	1	4
4	4	4	4	1	4
4	4	4	2	2	4
4	4	4	4	1	2
1	1	1	1	2	4
4	4	4	4	4	3
X	X	X	2	X	4
4	4	4	3	2	4
4	4	4	2	1	4

4	4	4	2	1	4
4	4	4	2	1	4
4	4	4	2	1	4
4	4	4	2	1	4
4	4	4	2	1	4
4	4	2	2	1	4
3	3	2	2	1	1
4	4	4	X	1	4
4	4	4	4	1	4
1	1	1	1	1	1
4	4	4	2	2	4
4	4	4	2	2	4
4	4	4	X	X	4
4	4	4	3	1	4
4	4	4	2	1	4
4	4	4	3	2	4
2	2	2	2	2	4
4	4	4	2	1	4
4	4	4	2	1	4
4	4	4	2	1	3
4	4	4	4	2	4
4	4	4	4	2	4
4	4	4	4	1	4
4	4	4	2	2	4
4	4	4	4	2	4
4	4	4	2	1	4
X	X	X	2	X	4
4	4	4	2	1	4



4	4	4	2	1	4
4	4	4	4	2	4
4	4	4	4	2	4
4	4	4	4	1	2
4	4	4	1	1	3
4	4	4	2	1	2
1	1	1	1	2	3
4	4	4	4	2	4
X	X	4	X	2	4
4	4	4	2	1	2
1	1	1	1	1	2
4	4	4	4	3	4
4	4	4	4	3	4
4	4	4	4	2	4
4	4	4	3	1	4
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	2	2	2
X	X	X	2	2	3
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
3	4	4	2	1	1
3	4	4	2	1	1
X	4	4	3	1	2
X	4	4	3	1	2

X	4	4	3	1	2
X	4	4	3	1	2
X	4	4	3	1	2
X	X	X	X	X	X
3	4	4	2	1	1
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
4	4	4	4	2	4
4	4	4	4	2	X
X	X	X	X	X	X
1	1	1	1	1	2
4	4	4	4	2	4
4	4	4	4	2	X
X	X	X	X	X	X
2	2	2	4	4	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	2	X	4
1	1	1	1	1	2
4	4	4	4	X	X
1	1	1	1	1	2
4	4	4	4	3	4

2	2	2	2	X	2
X	X	X	2	4	3
4	4	4	4	2	X
4	4	4	2	1	2
X	X	X	X	X	X
4	4	4	4	2	X
4	4	4	4	1	4
4	4	4	4	2	X
4	4	4	4	2	X
4	4	4	4	2	X
4	4	4	4	2	X
4	4	4	4	1	4
X	X	X	X	X	X
4	4	4	4	2	4
2	2	2	1	3	4
4	4	4	4	1	2
1	1	1	1	1	1
4	4	4	4	2	4
4	1	1	4	4	4
1	1	1	1	1	2
1	1	1	1	1	1
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	1
2	2	2	1	1	1
4	4	4	4	2	X
1	1	1	1	1	2
4	4	4	4	2	X

1	1	1	1	1	2
1	1	1	1	1	1
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	2	4	4
X	X	X	X	X	X
X	X	4	X	4	4
1	1	1	1	1	2
4	4	4	4	4	4
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
X	X	X	X	X	X
2	2	2	2	4	4
1	1	1	1	1	2
1	1	1	1	1	1
1	1	1	1	1	2
4	4	4	4	4	4
X	X	X	X	X	X
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
2	2	2	2	4	4
1	1	1	1	1	2
4	4	4	4	4	4

X	X	X	X	X	X
X	X	X	X	X	X
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
X	X	X	X	X	1
4	4	4	2	1	2
X	X	X	X	X	X
4	X	4	3	X	X
4	4	4	4	2	4
4	4	4	2	1	4
4	4	4	2	1	2
4	4	4	4	2	4
1	1	1	1	1	2
2	2	2	2	2	2
4	4	4	2	1	2
4	4	4	4	2	X
4	4	4	4	2	X
4	4	4	4	X	4
4	4	4	4	X	4
4	4	4	2	2	4
4	4	4	4	2	X
4	4	4	2	1	3
4	4	4	4	1	4
4	4	4	4	1	4
4	4	4	4	2	4
1	1	1	1	1	2
1	1	1	1	1	2

1	1	1	1	1	2
4	4	4	4	2	4
1	1	1	1	1	2
X	X	X	X	X	X
4	4	4	2	2	4
4	4	4	2	2	4
4	4	4	2	2	4
2	2	2	2	1	2
4	4	4	4	4	1
2	2	2	1	1	1
X	X	X	X	X	X
1	1	1	1	1	2
4	4	4	1	1	1
4	4	4	4	2	4
2	2	2	3	1	4
1	1	1	1	1	2
1	1	1	1	1	2
X	X	X	X	X	X
1	1	1	1	1	2
4	4	4	4	2	X
4	4	4	4	2	4
4	4	4	2	1	2
1	1	1	1	1	2
1	1	1	1	1	2
4	4	4	4	4	4
1	1	1	1	1	2

1	1	1	1	1	2
1	1	1	1	1	2
4	4	4	4	2	X
1	1	1	1	1	2
4	4	4	1	1	2
4	4	4	2	1	1
4	4	4	4	2	X
X	X	X	X	X	X
4	4	4	4	2	X
4	4	4	4	2	X
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
X	X	X	X	X	X
4	4	4	2	3	4
4	4	4	2	3	4
4	4	4	2	3	4
4	4	4	2	3	4
X	X	X	X	X	X
4	4	4	2	1	2
1	1	1	1	1	2
4	4	4	2	1	2
4	4	4	4	2	4
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
4	4	4	2	1	4
4	4	4	2	1	2

4	4	4	4	4	4
4	4	4	2	2	2
4	4	4	2	1	4
4	4	4	4	2	4
4	4	4	4	2	4
4	4	4	4	2	4
1	1	1	1	1	2
1	1	1	1	1	2
4	4	4	4	2	X
1	1	1	1	1	2
1	1	1	1	1	2
4	4	4	4	2	4
X	X	X	X	X	X
4	4	4	4	2	X
4	4	4	4	4	4
4	4	4	4	2	X
1	1	1	1	1	2
2	1	1	4	X	X
1	1	1	1	1	2
1	1	1	1	1	2
4	4	4	4	4	4
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	1	2	2
X	X	X	1	3	3
X	X	X	1	3	4
X	X	X	X	X	X
X	X	X	X	X	X



X	X	X	X	X	X
X	X	X	X	X	X
X	X	4	4	1	X
X	X	X	X	X	X
1	1	1	1	1	2
1	1	1	1	1	2
4	4	4	2	4	4
2	2	1	1	2	X
2	2	2	2	2	4
4	4	4	4	1	4
4	4	4	2	1	2
4	4	4	4	1	4
4	4	4	4	2	X
4	4	4	4	2	4
X	X	X	X	X	X
X	X	X	X	X	X
4	4	4	4	2	2
X	X	4	1	X	4
4	4	4	1	4	4
X	X	X	X	X	X
1	1	1	1	1	2
1	1	1	1	1	2
X	X	2	2	X	X
X	X	X	X	X	X
4	1	1	1	4	4
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2

1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	1
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	1
1	1	1	1	1	2
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
2	2	2	1	3	3
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
X	X	X	X	X	X
1	1	1	1	1	2
1	1	1	1	1	1

1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
X	X	X	X	X	X
1	1	1	1	1	2
X	X	X	X	X	X
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	1
X	X	X	X	X	X
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	2	2	2	1	1
1	1	1	1	1	2
1	2	2	2	1	1
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	1
4	4	4	4	1	2
4	4	4	2	2	2
4	4	4	2	2	4
1	1	1	1	1	2
1	1	1	1	1	2

X	X	X	X	X	X
4	4	4	4	4	4
4	4	4	4	4	4
1	1	1	1	1	1
4	4	4	4	4	4
1	1	1	1	1	2
1	1	1	1	1	2
4	4	4	4	2	X
4	4	4	4	3	4
4	4	4	4	2	X
4	4	4	4	2	X
4	4	4	4	2	X
1	1	1	1	1	2
4	4	4	4	2	X
4	4	4	4	4	4
X	X	X	X	X	X
4	4	4	4	4	1
4	4	4	4	3	4
4	4	4	4	4	4
4	4	4	4	1	1
4	4	4	2	1	4
4	4	4	4	2	X
4	4	4	4	4	4
1	1	1	1	1	2
1	1	1	1	1	2
4	4	4	4	2	X
X	X	X	X	X	X
4	4	4	4	4	4
4	4	4	1	2	3

4	4	4	2	4	X
4	4	4	4	2	2
1	1	1	1	1	2
4	4	4	4	2	X
2	2	2	2	4	2
1	1	1	1	1	2
4	4	4	4	2	X
4	4	4	4	2	X
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
4	4	4	4	2	X
4	4	4	4	2	X
4	4	4	4	2	X
X	X	4	X	4	2
4	4	4	4	2	X
4	4	4	2	1	4
4	4	4	2	1	4
4	4	4	2	1	4
1	1	1	1	1	2
X	X	X	X	X	X
4	4	4	4	2	X
4	4	4	4	2	X
4	4	4	2	1	4
X	X	4	X	1	4
4	4	4	4	2	X

4	4	4	2	1	4
1	1	1	1	1	2
1	1	1	1	1	2
2	1	1	X	1	X
4	4	4	X	1	1
1	1	1	1	1	1
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	1
X	1	1	1	1	4
X	X	X	X	X	4
1	1	1	1	1	4
4	4	4	2	1	X
4	4	4	4	1	2
4	4	4	4	1	X
4	4	4	4	1	4
4	4	4	4	1	4
4	4	4	4	1	4
4	4	4	4	1	4
4	4	4	4	1	4
4	4	4	4	1	4
4	4	4	4	1	4
4	4	4	4	1	4
X	X	X	X	X	X
X	X	X	X	X	X
4	4	4	4	1	4
1	1	1	1	1	2
X	X	X	X	X	X
4	4	4	X	1	4







1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
X	X	X	X	X	X
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	2	1
2	2	2	1	2	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	2	1	X
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	2	1	X	4
1	1	1	1	1	2
1	1	1	1	1	2
2	2	2	2	1	2
1	1	1	1	1	2
1	1	1	1	1	2
2	2	2	2	1	4
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2

1	1	1	1	X	4
1	1	1	1	X	4
1	1	1	1	X	1
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	1
X	X	X	X	X	X
1	1	1	1	X	X
X	X	X	X	X	X
1	1	1	1	1	2
2	2	2	1	1	1
2	2	2	1	1	1
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
2	2	2	1	1	1
1	1	1	1	1	2
1	1	1	1	1	2
X	X	X	X	X	X
1	1	1	1	1	2
4	4	4	X	4	4
4	4	4	X	4	4
4	4	4	2	1	4

4	4	4	2	1	4
4	4	4	3	1	1
4	4	4	4	1	1
4	4	4	4	1	4
4	4	4	4	1	4
4	4	4	2	1	4
1	1	1	1	1	2
1	1	1	4	1	2
1	1	1	4	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
4	4	4	4	2	4
4	4	4	4	4	3
4	4	4	4	4	4
X	X	X	X	X	X
2	2	2	2	X	2
4	4	4	4	1	4
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
4	4	4	4	3	4
1	1	1	1	1	2
1	1	1	2	1	1

1	1	1	1	1	2
1	1	1	1	1	2
4	4	4	4	2	X
4	4	4	4	2	X
1	1	1	1	1	2
X	X	X	X	X	X
4	4	4	4	2	X
1	1	1	1	1	2
1	1	1	1	1	2
4	4	4	X	1	X
4	4	4	4	3	3
4	4	4	4	1	3
2	2	2	4	2	2
4	4	4	4	2	2
4	4	4	3	2	2
X	X	X	X	X	X
2	2	2	2	2	4
4	4	4	2	1	2
X	X	X	X	X	X
2	2	2	4	2	2
1	1	1	1	1	2
X	X	X	1	1	1
X	X	X	X	X	X
X	X	X	X	4	4
1	1	1	1	1	2
2	2	2	1	X	4
4	4	4	2	1	4
4	4	4	2	1	4

4	4	4	2	1	4
4	4	4	2	1	X
4	4	4	4	2	4
1	1	1	1	1	2
4	4	4	4	1	4
4	4	4	4	1	4
4	4	4	2	1	2
1	1	1	1	1	2
4	2	3	4	1	2
2	1	3	1	1	1
X	X	X	X	X	X
1	1	1	1	1	2
4	4	4	4	1	X
4	4	4	4	2	X
X	X	X	X	X	X
2	4	4	2	1	X
X	X	X	X	X	X
4	4	4	4	2	4
4	4	4	4	2	X
2	2	2	4	4	4
4	4	4	4	2	4
4	4	4	4	2	X
4	4	4	4	2	X
4	4	4	4	2	X
X	X	X	X	X	X
4	4	4	4	4	4
4	4	4	4	1	4
1	1	1	1	1	2

X	X	X	X	X	X
4	4	4	4	2	X
4	4	4	4	2	X
1	1	1	1	1	2
X	X	X	X	X	X
4	4	4	4	1	4
4	4	4	4	1	4
4	4	4	4	1	4
4	4	4	4	1	4
4	4	4	4	1	2
4	4	4	4	2	4
4	4	4	4	2	4
4	4	4	4	2	4
4	4	4	4	2	4
4	4	4	4	2	4
4	4	4	4	1	2
X	X	X	X	X	4
X	X	X	X	X	4
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	2
X	X	X	X	X	X
4	4	4	2	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
X	X	X	2	2	X
X	X	X	2	2	X
4	4	4	4	2	X

4	4	4	4	2	X
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
4	4	4	2	1	4
4	4	4	4	1	2
1	1	1	1	1	2
4	4	4	2	1	2
4	4	4	2	1	2
1	1	1	1	1	2
1	1	1	1	1	2
4	4	4	4	2	4
4	4	4	4	2	4
X	X	X	X	X	X
4	4	4	4	4	4
4	4	4	4	2	X
1	1	1	1	1	2
4	4	4	4	2	X
1	1	1	1	1	2
4	4	4	4	2	X
1	1	1	1	1	2
4	4	4	4	1	2
4	4	4	2	1	2
2	2	2	2	4	X
4	4	4	4	2	3
4	4	4	4	2	X
2	4	2	4	2	X
1	1	1	1	1	2

4	4	4	4	3	4
4	2	2	4	4	4
X	X	X	X	X	X
2	2	2	4	4	X
4	4	4	4	2	X
4	4	4	4	2	X
4	4	4	4	2	4
1	1	1	1	1	2
4	4	4	4	2	4
4	4	4	4	2	4
1	1	1	1	1	2
X	X	X	X	X	X
4	4	4	4	2	4
4	4	4	4	2	4
4	4	4	4	2	3
2	2	2	2	4	X
4	4	4	4	2	X
X	X	X	X	X	X
X	X	X	X	X	X
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
4	4	4	4	2	4
4	4	4	4	2	4
4	4	4	4	2	X
4	4	4	4	2	X
1	1	1	1	1	2
1	1	1	1	1	2
4	4	4	4	2	X





1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
2	2	2	2	1	1
X	X	X	X	X	X
1	1	1	1	1	1
1	1	1	1	1	1
1	1	1	1	1	1
4	4	4	4	2	X
4	4	4	4	2	X
4	4	4	2	1	4
4	4	4	4	1	4
1	1	1	1	4	4
1	1	1	1	1	2
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
4	4	4	2	1	2
4	4	4	2	1	2
4	4	4	4	2	4
4	4	4	X	1	1
X	X	X	X	X	X
1	1	1	1	1	3
2	2	2	X	3	3

X	X	X	X	X	X
4	4	4	4	2	X
4	4	4	4	2	X
4	4	4	4	2	X
4	4	4	4	2	X
4	4	4	4	2	X
4	4	4	4	2	X
1	1	1	1	1	2
2	2	2	2	2	2
X	X	2	2	4	3
1	1	1	1	1	1
4	4	4	4	1	4
1	1	1	1	1	1
X	X	X	X	X	X
4	4	4	4	1	4
4	4	4	4	1	4
1	1	1	1	1	1
1	1	1	1	1	1
4	4	4	3	2	4
1	1	1	1	1	1
4	4	4	4	1	4
4	4	4	4	4	4
4	4	4	4	1	4
1	1	1	1	1	X
4	1	1	4	4	4
1	1	1	1	1	2

1	1	1	1	1	X
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
1	1	1	1	1	2
X	X	X	X	X	X
1	1	1	1	1	2
X	X	X	X	X	X
1	1	1	1	1	X
1	1	1	1	1	X
1	1	1	1	1	2
1	1	1	1	1	1
1	1	1	1	1	1
X	X	X	X	X	X
1	1	1	1	1	2
2	2	2	1	1	1
1	1	1	1	1	2
2	2	2	1	1	1