



Fluoroelastomer Edge – Sealants

CHEMICAL RESISTANCE DATA

Integument Technologies' state-of-the-art fluid coatings, caulks, adhesives and sealants are made from DuPont/Dow Viton® fluoroelastomer. Our unique products resist attack, to varying degrees, by a broad spectrum of industrial chemical, fuels, oils, and other substances.

We have researched the effect of the listed chemicals on fluoroelastomers at various temperatures, concentrations, and exposure times. Our information is based on extensive laboratory tests and experiments that have been performed on fluoroelastomers themselves by a number outside organizations, including manufacturers, end users, suppliers, and trade associations.

The information is believed to be reliable. However, the degree of fluid resistance of an elastomer to deterioration by a specific substance is dependent on many variables, including the concentration and temperature of the material; the frequency and duration of exposure; the velocity of flow and

aeration; mechanical action; and the ratio of contact surface area to volume. Therefore, the ratings in the accompanying listing should be used only as a general guide, and not as specific recommendations.

While the information is presented by us in good faith, no guarantee, expressed or implied, can be given regarding the accuracy of these ratings. In those cases where no data is available, the rating shown is the considered, conditional opinion of experienced rubber chemists and compounders.

We strongly urge you to test our products under actual or simulated service conditions, before you purchase them, rather than assume that they will perform satisfactorily in your specific application. In order to assist you in learning more about the chemical resistance of Integument Technologies' products to the substance shown, the following code has been used:

CODE

- E** Excellent Resistance – little or minor attack by the material on fluoroelastomers; 0-5% volume swell where applicable.
- G** Good Resistance – minor to moderate attack by the material on fluoroelastomers; 5-10% volume swell where applicable.
- F** Fair Resistance – moderate to severe attack by the material on fluoroelastomers; 10-20% volume swell where applicable.
- NR** Not recommended.
- COK** No Data Available – our conditional opinion is that fair to excellent resistance by fluoroelastomers is likely to occur.
- CNR** No Data Available – our conditioned opinion is that severe attack by the material on fluoroelastomer is likely to occur.

Chemical	Rating	Chemical	Rating	Chemical	Rating
Acetaldehyde	NR	Air	E	Aluminum Sodium Chloride	E
Acetamide (>120°F)	G	Alkazene (Dibromoethylbenzene)	G	Aluminum Sulfate	E
Acetic Acid (0-15%)	G	Allyl Alcohol	G	Ammonia, Anhydrous	NR
Acetic Acid, 30%	F	Allylamine (0-50%)	NR	Ammonia, Wet	NR
Acetic Acid, 50%	F	Allyl Bromide	E	Ammonium Acetate	NR
Acetic Acid, Glacial	NR	Allyl Chloride	E	Ammonium Benzoate	COK
Acetic Anhydride	NR	Aluminum Acetate	COK	Ammonium Bicarbonate	E
Acetone	NR	Aluminum Bromate	COK	Ammonium Carbonate	E
Acetonitrile	NR	Aluminum Bromide	E	Ammonium Chloride	E
Acetophenone	NR	Aluminum Chloride	E	Ammonium Chlorostanate	COK
Acetyl Chloride	E	Aluminum Fluoride (25%)	E	Ammonium Dichromate	COK
Acetylene	E	Aluminum Hydroxide	G	Ammonium Fluoride (25%)	COK
Acrylamide (0-5%)	CNR	Aluminum Iodide	E	Ammonium Hydroxide (0-30%)	G
Acrylonitrile	NR	Aluminum Nitrate	E	Ammonium Iodate	COK
Adipic Acid Solution	COK	Aluminum Phosphate	E	Ammonium Iodide	COK

Chemical	Rating	Chemical	Rating	Chemical	Rating
Ammonium Nitrate	E	Barium Dichromate	COK	Butyl Aldehyde	NR
Ammonium Nitrite	COK	Barium Hydroxide (0-10%)	E	Butyl Amine	NR
Ammonium Oxalate	COK	Barium Iodate	COK	Butyl Benzoate	E
Ammonium Persulfate	E	Barium Iodide	COK	Butyl Carbitol	E
Ammonium Phosphate	G	Barium Nitrate	E	Butyl Cellosolve	NR
Ammonium Silicate	COK	Barium Nitrite	COK	Butyl Ether	NR
Ammonium Sulfate	G	Barium Oxalate	COK	Butyl Iodide	COK
Ammonium Sulfide	G	Barium Sulfate	E	Butyl Mercaptan	E
Ammonium Thiosulfate	G	Barium Sulfide	E	Butyl Oleate	E
Ammonium Trichloride	COK	Barium Sulfite	COK	Butyl Phthalate	F
Amyl Acetate (Banana Oil)	NR	Beer	E	Butyl Stearate	E
Amyl Acid Phosphate	COK	Benzaldehyde	NR	Butylene	E
Amyl Alcohol	G	Benzene	E	Butyraldehyde	NR
Amyl Amine	NR	Benzene (5% in Kerosene)	E	Butyric Acid	E
Amyl Borate	E	Benzene Sulfonic Acid	E	Butyronitrile	CNR
Amyl Bromide	G	Benzoic Acid	E	Cadmium Bromate	COK
Amyl Chloride	E	Benzoyl Chloride	E	Cadmium Bromide	COK
Amyl Chloronaphthalene	E	Benzyl Alcohol	E	Calcium Acetate	NR
Amyl Ether	CNR	Benzyl Benzoate	E	Calcium Bisulfate	E
Amyl Iodide	COK	Benzyl Chloride	E	Calcium Bisulfite	E
Amyl Naphthalene	E	Beverages, Carbonated	E	Calcium Bromate	COK
Amylene	G	Biphenyl	E	Calcium Bromide	COK
Aniline	F	Bismuth Oxychloride	COK	Calcium Carbonate	E
Aniline Hydrochloride	G	Black Liquor	E	Calcium Chlorate	E
Animal Fats	E	Bleach (0-6%)	E	Calcium Chloride	E
Ansul Ether	NR	Bleach Liquor	E	Calcium Citrate	COK
Antifreeze (Glycol Base)	G	Blood	E	Calcium Hydroxide (0-50%)	E
Antimony Trichloride	G	Borax	E	Calcium Hypochlorite (0-20%)	E
Arsenic Acid (0-75%)	E	Boric Acid	E	Calcium Iodide	COK
Arsenic Trichloride	NR	Brine (salt water)	E	Calcium Nitrate	E
Askarel	E	Bromic Acid	COK	Calcium Nitrite	COK
Asphalt	E	Bromine	E	Calcium Oxychloride	COK
ASTM Fuel A	E	Bromine, Anhydrous	E	Calcium Phosphate	E
ASTM Fuel B	E	Bromine Trifluoride	NR	Calcium Sulfate	G
ASTM Fuel C	E	Bromine Water	E	Calcium Sulfide	E
ASTM No. 1 Oil	E	Bromobenzene	E	Calcium Sulfite	E
ASTM No. 2 Oil	E	Bromochloromethane	F	Calcium Thiosulfate	E
ASTM No. 3 Oil	E	Bunker Oil	E	Carbomate	E
Banana Oil (Amyl Acetate)	NR	Butadiene	E	Carbitol	G
Bardol B	G	Butane	E	Carbon Dioxide	G
Barium Bromide	COK	Butter	E	Carbon Disulfide	E
Barium Carbonate	E	Butyl Acetate	NR	Carbon Monoxide	E
Barium Chlorate	COK	Butyl Acetyl Ricinoleate	E	Carbon Tetrachloride	E
Barium Chloride	E	Butyl Acrylate	NR	Carbon Tetrafluoride	E
Barium Citrate	COK	Butyl Alcohol	E	Carbonic Acid	E
				Castor Oil	E

Chemical	Rating	Chemical	Rating	Chemical	Rating
Cellosolve	NR	Crude Oil, Sweet	E	Diethyl Ketone	NR
Cellosolve Acetate	NR	Cumene	E	Diethyl Phthalate	F
China Wood Oil (Tung Oil)	E	Cupric Bromate	COK	Diethyl Sebacate	COK
Chlorine Dioxide	E	Cupric Bromide	COK	Diethyl Sulfate	NR
Chlorine, Dry Gas	E	Cupric Chloride	E	Diethylene Glycol	E
Chlorine Trifluoride	NR	Cupric Hydroxide	F	Diisobutylene	E
Chlorine Water	E	Cupric Sulfate	E	Diisopropyl Benzene	E
Chlorine, Wet Gas	E	Cuprous Sulfite	COK	Diisopropyl Ether	CNR
Chloroacetic Acid	NR	Cuprous Thiocyanate	COK	Diisopropyl Ketone	NR
Chloroacetone	NR	Cyclohexane	E	Diisopropylidene Acetone (Phorone)	NR
Chloroacetonitrile	CNR	Cyclohexanol	E	Dimethylamine	CNR
Chlorobenzene	E	Cyclohexanone	NR	Dimethyl Aniline (Xylidene)	NR
Chlorobromomethane	E	Cyclopentane	COK	Dimethylcyclohexylamine	CNR
Chlorobutadiene	E	Cymene, Para	E	Dimethyl Ether	E
Chlorododecane	E	Decahydronaphthalene	E	Dimethyl Formamide	NR
Chloroethyl Benzene	E	Decane	E	Dimethyl Phthalate	G
Chloroform	E	Deionized Water	E	Dimethyl Sulfate	NR
Chloronaphthalene	E	Denatured Alcohol	G	Dinitrobenzene	E
1-Chloro-1-Nitroethane	NR	Detergents, All	E	Dinitrotoluene	NR
Chlorostannic Acid	COK	Diacetone Alcohol	NR	Diocetyl Adipate	F
Chlorosulfonic Acid	NR	Diallylamine	CNR	Diocetyl Phthalate	G
Chlorotoluene	E	Dibenzyl Ether	NR	Diocetyl Sebacate	E
Chrome Plating Solution	E	Dibenzyl Sebacate	F	Dioxane	NR
Chromic Acid (0-66%)	E	Dibromoethylbenzene (Alkazene)	G	Dioxolane	NR
Chromic Sulfate Chromium	COK	Dibutyl Acetate	CNR	Dipentene	E
Potassium Sulfate	E	Dibutyl Amine	NR	Diphenyl	E
Chromous Chloride	COK	Dibutyl Ether	F	Diphenyl Oxides	E
Chromous Iodide	COK	Dibutyl Phthalate	F	Disodium Phosphate	COK
Citric Acid	E	Dichloroacetic Acid	NR	Di-Tert-Butyl Peroxide	CNR
Coal Tar (Creosote)	E	1,4 Dichloro – 2 butene	COK	Divinyl Benzene	E
Cobalt Chloride	E	3,4 Dichloro – 1 butene	COK	Epichlorohydrin	NR
Coconut Oils	E	Dichloro-Difluoro Methane	F	Epsom Salt	G
Cod Liver Oil	E	Dichloroethane	E	Ethane	E
Coke Oven Gas	E	Dichloro-Fluoro Methane	NR	Ethanolamine	NR
Copper Acetate	NR	Dichloro-Isopropyl Ether	F	Ether	F
Copper Chloride	E	Dichloromethane	F	Ethyl Acetate	NR
Copper Cyanide	E	Dicyclohexylamine	NR	Ethyl Acrylate (100%)	NR
Copper Fluoride	COK	Dicyclopentadiene	COK	Ethyl Alcohol	G
Copper Nitrate	COK	Diesel Fuel	E	Ethyl Benzene	E
Copper Sulfate	E	Diethanolamine	NR	Ethyl Benzoate	E
Corn Oil	E	Diethylamine	NR	Ethyl Bromide	G
Cottseed Oil	E	Diethyl Benzene	E	Ethyl Butyrate	F
Creosote (Coal Tar)	E	Diethyl Carbonate	G	Ethyl Caprylate	COK
Cresol	E	Diethyl Ether	NR	Ethyl Cellosolve	NR
Cresylic Acid	E			Ethyl Cellulose	NR
Crude Oil, Sour	E			Ethyl Chloride	E

CHEMICAL	RATING	CHEMICAL	RATING	CHEMICAL	RATING
Ethyl Chlorocarbonate	E	Fish Oil	E	Isobutyl Alcohol	E
Ethyl Chloroformate	G	Fluoboric Acid (0-50%)	G	Isododecane	G
Ethyl Ether	NR	Fluorine	G	Isooctane	E
Ethyl Formate	E	Fluorobenzene	E	Isopentane	G
Ethyl Hexanoate	COK	Fluosilicic Acid (0-32%)	E	Isophorone	NR
Ethyl Hexanol	E	Formaldehyde (0-40%)	F	Isopropyl Acetate	NR
Ethyl Iodide	E	Formamide	NR	Isopropyl Alcohol	E
Ethyl Isobutyl Ether	CNR	Formic Acid	F	Isopropyl Benzene	E
Ethyl Isobutyrate	COK	Fuel Oil	E	Isopropyl Biphenyl	COK
Ethyl Mercaptan	F	Fumaric Acid (0-55%)	E	Isopropyl Chloride	E
Ethylmorpholine	COK	Furfural	NR	Isopropyl Ether	NR
Ethyl Oxalate	G	Furfuran	CNR	Jet Fuel JP-3	E
Ethyl Pentachloro-Benzene	E	Gallic Acid	E	Jet Fuel JP-4	E
Ethyl Propionate	COK	Gasoline Refined, All	E	Jet Fuel JP-5	E
Ethyl Propyl Ether	CNR	Gelatin	E	Kerosene	E
Ethyl Silicate	E	Glucose	E	Lactic Acid (0-88%)	E
Ethylene	E	Glycerine	E	Lactol	E
Ethylene Chloride	G	Glyoxal	CNR	Lard	E
Ethylene Chlorohydrin	E	Grease, Silicone	COK	Lauric Acid	COK
Ethylenediamine	NR	Heptanal	NR	Lavender Oil	E
Ethylene Dibromide	G	Heptane	E	Lead Acetate	NR
Ethylene Dichloride	E	Hexaldehyde, Normal	NR	Lead Chloride	E
Ethylene Glycol	E	Hexane	E	Lead Fluoborate (0-48%)	COK
Ethylene Oxide	NR	Hexene	E	Lead Nitrate	E
Ethylene Trichloride	E	Hexyl Alcohol	E	Lead Persulfate	COK
Fatty Acids	E	Hydraulic Fluid	E	Lead Sulfamate	E
Ferric Bromide	E	Hydrazine, 35% Catalyzed	NR	Lead Sulfate	E
Ferric Chloride	E	Hydrobromic Acid (0-50%)	E	Levulinic Acid (25%)	CNR
Ferric Formate	COK	Hydrochloric Acid (0-37%)	E	Ligroin (Petroleum Ether)	E
Ferric Nitrate	E	Hydrocyanic Acid	E	Linoleic Acid	G
Ferric Oxalate	COK	Hydrofluoric Acid	E	Linseed Oil	E
Ferric Sulfate	E	Hydrofluosilicic Acid	E	Liquified Petroleum Gas (LPG)	E
Ferric Sulfide	COK	Hydrogen Bromide	E	Lithium Acetate	NR
Ferric Thiocyanate	COK	Hydrogen Gas	E	Lithium Nitrate	COK
Ferrous Chloride	E	Hydrogen Peroxide (0-35%)	E	Lithium Sulfide	COK
Ferrous Chloroplatinate	COK	Hydrogen Sulfide, Aqueous	NR	Magnesium Acetate	NR
Ferrous Ferricyanide	COK	Hydroquinone	F	Magnesium Bromide	COK
Ferrous Fluoride	COK	Hypochlorous Acid (0-10%)	E	Magnesium Carbonate	E
Ferrous Formate	COK	Iodine	G	Magnesium Chloride	E
Ferrous Iodide	COK	Iodine Pentafluoride	NR	Magnesium Hydroxide	E
Ferrous Perchlorate	COK	Iodoform	COK	Magnesium Nitrate	E
Ferrous Potassium Oxalate	COK	Isoamyl Acetate	NR	Magnesium Perchlorate	COK
Ferrous Sulfate	E	Isoamyl Alcohol	G	Magnesium Sulfate	E
Ferrous Thiocyanate	COK	Isobutyl Acetate	NR	Magnesium Thiosulfate	COK
Ferrous Thiosulfate	COK			Maleic Acid (100%)	E
				Maleic Anhydride	NR

CHEMICAL	RATING	CHEMICAL	RATING	CHEMICAL	RATING
Malic Acid	E	Monomethyl Aniline	G	Perchloroethylene	E
Malonyl Nitrile	CNR	Monomethylether	G	Petroleum Ether (Ligroin)	E
Manganese Chloride	G	Monovinyl Acetylene	E	Petroleum Oils	G
Manganese Iodide	COK	Morpholine	COK	Phenol	E
Manganese Lactate	COK	Naphtha	E	Phenol Sulfonic Acid	E
Manganese Sulfate	E	Naphthalene	E	Phenylbenzene	E
Mercuric Cyanide	COK	Naphthalenic Acid	E	Phenyl Ethyl Ether	NR
Mercurous Nitrate	COK	Naphthenic Acids	E	Phenylhydrazine	E
Mercury	E	Natural Gas	E	Phorone (Diisopropylidene Acetone)	NR
Mercury Chloride	E	Neatsfoot Oil	E	Phosphoric Acid (0-85%)	E
Mesityl Oxide	NR	Nickel Acetate	NR	Phosphorous Oxychloride	COK
Methane	E	Nickel Bromide	COK	Phosphorous Trichloride	E
Methyl Acetate	NR	Nickel Chloride	E	Pickling Acids, Sulfuric & Hydrochloric	E
Methylacrylate	NR	Nickel Formate	COK	4-Picoline (0-50%)	CNR
Methylacrylic Acid	G	Nickel Nitrate	COK	Picric Acid	G
Methyl Alcohol	G	Nickel Potassium Cyanide	COK	Pinene	E
Methyl Amine	CNR	Nickel Sulfate	E	Pine Oil	E
Methylamyl Acetate	NR	Nitric Acid	E	Piperidine	NR
Methylamyl Alcohol	COK	Nitrobenzene	G	Platinic Acid	COK
Methyl Aniline	CNR	Nitroethane	NR	Platinum Chloride	COK
Methyl Bromide	E	Nitrogen Gas	E	Platinum Sulfate	COK
Methyl Butyrate	CNR	Nitrogen Tetroxide	NR	Polyethylene Glycol	G
Methyl Cellosolve	NR	Nitromethane	NR	Polyvinyl Acetate	CNR
Methyl Chloride	G	Nitropropane	NR	Potassium Acetate	NR
Methyl Cyclopentane	E	Octachlorotolune	E	Potassium Aluminum Silicate	COK
Methyl Ether	F	Octadecane	E	Potassium Arsenate	COK
Methyl Ethyl Ketone	NR	Octane	E	Potassium Arsenite	COK
Methyl Formate	NR	Octyl Alcohol	E	Potassium Bicarbonate	E
Methyl Iodide	COK	Oleic Acid	G	Potassium Bisulfate	G
Methyl Isobutyl Carbinol	COK	Oleyl Alcohol	COK	Potassium Bisulfite	G
Methyl Isobutyl Ketone	NR	Olive Oil	E	Potassium Borate	COK
Methyl Methacrylate	NR	Orthodichlorobenzene	E	Potassium Bromide	COK
Methyl Oleate	F	Oxalic Acid (12.5%)	E	Potassium Carbonate	E
Methyl Salicylate	COK	Oxygen Gas – Cold	E	Potassium Chlorate	COK
Methylene Chloride	F	Ozone	E	Potassium Chloride	E
Milk	E	Palladium Choride	COK	Potassium Cyanate	COK
Mineral Oils	E	Palmitic Acid	E	Potassium Cyanide	E
Mineral Spirits	E	Paradichlorobenzene	G	Potassium Dichromate	E
Molasses	E	Paraffin Wax	G	Potassium Fluoride	E
Molybdenum Oxybromide	COK	Paraldehyde	NR	Potassium Hydrosulfide	COK
Molybdenum Oxychloride	COK	Peanut Oil	E	Potassium Hydroxide	F
Molybdenum Tetrabromide	COK	Pentachlorophenol	E	Potassium Hypochlorite	COK
Monobromobenzene	E	Pentane	G	Potassium Hypophosphite	COK
Monochlorobenzene	E	2, 4-Pentanedione	CNR	Potassium Iodide	COK
Monoethanolamine	NR	Perchloric Acid	E	Potassium Nitrate	E

CHEMICAL	RATING	CHEMICAL	RATING	CHEMICAL	RATING
Potassium Nitrite	COK	Sodium Bisulfate	E	Tallow	E
Potassium Permanganate	G	Sodium Bisulfite	E	Tannic Acid	E
Potassium Phosphate, Hydrogen	COK	Sodium Borate	E	Tantalum Fluoride	COK
Potassium Phosphate, Pyro	COK	Sodium Bromide	COK	Tar, Bituminous	E
Potassium Phosphite	COK	Sodium Carbonate	E	Tartaric Acid	E
Potassium Silicate	COK	Sodium Chlorate (0-50%)	COK	Terpineol	E
Potassium Sulfate	E	Sodium Chloride	E	Tertiary Butyl Alcohol	E
Potassium Sulfide	COK	Sodium Cyanide	E	Tertiary Butyl Mercaptan	E
Potassium Sulfite	E	Sodium Dichromate	E	Tetrabromomethane	E
Potassium Thiocarbonate	COK	Sodium Ferrocyanide	COK	Tetrabutyl Titanate	E
Potassium Thiocyanate	COK	Sodium Fluoride	COK	Tetrachloroethane	E
Propane Gas	E	Sodium Hydroxide (0-50%)	G	Tetrachloroethylene	E
Propionic Acid	CNR	Sodium Hypochlorite (0-15%)	E	Tetraethyl Lead	E
Propionitrile	NR	Sodium Metabisulfite (0-40%)	E	Tetrahydrofuran (0-15%)	NR
Propyl Acetate	NR	Sodium Methoxide (30%)	COK	Tetrahydronaphthalene	G
Propyl Acetone	NR	Sodium Nitrate	E	Thionyl Chloride	F
Propyl Alcohol	E	Sodium Nitrite	E	Thiophene	F
Propyl Nitrate	NR	Sodium Perborate	E	Tin Fluoborate (0-48%)	COK
Propylene	E	Sodium Peroxide	E	Titanium Chloride	E
Propylene Dichloride	E	Sodium Persulfate (55%)	COK	Titanium Fluoride	COK
Propylene Glycol	E	Sodium Phosphate	E	Titanium Nitrate	COK
Propylene Oxide	NR	Sodium Silicate	E	Titanium Tetrachloride	E
Pulp Mill Liquors	COK	Sodium Sulfate	E	Toluene	E
Pyridine	NR	Sodium Sulfide	E	Toluene Diisocyanate	NR
Pyroigneous Acid	NR	Sodium Sulfite (0-30%)	E	Toluidine	E
Pyrrole	NR	Sodium Tetraborate	E	Triacetin	NR
Rapeseed Oil	E	Sodium Thiosulfate	E	Triaryl Phosphate	E
Rhodium Chloride	COK	Soybean Oil	E	Tributoxyethyl Phosphate	E
Rhodium Sulfate	COK	Stannic Chloride	E	Tributyl Mercaptan	E
Rosin Oil	COK	Stannous Chloride	E	Tributyl Phosphate	NR
Salicylic Acid	E	Steam	G	Trichloroacetic Acid	F
Salt Water	E	Stearic Acid	E	Trichloro Benzene	E
Selenic Acid	COK	Stoddard Solvent	E	1-1-1 Trichloroethane	E
Silicate Esters	E	Styrene	G	Trichloroethylene	E
Silicic Acid	E	Sugar	E	Trichlorotrifluoroethane	E
Silicon Fluoride	COK	Sulfamic Acid (0-25%)	E	Tricresyl Phosphate	E
Silver Cyanide	COK	Sulfite Liquors	E	Triethanolamine	NR
Silver Nitrate	E	Sulfur	E	Triethyl Aluminum	G
Silver Perchlorate	COK	Sulfur Chloride	E	Triethyl Borane	E
Silver Permanganate	COK	Sulfur Dioxide, wet or dry	E	Triethylene Glycol	G
Silver Thiosulfate	COK	Sulfur Hexafluoride	E	Triethylenetetramine	NR
Soap Solutions	E	Sulfur Trioxide	E	Trinitrotoluene	G
Sodium Acetate	NR	Sulfuric Acid (0-98%)	E	Trioctyl Phosphate	F
Sodium Benzoate	COK	Sulfurous Acid	E	Triphenyl Phosphate	F
Sodium Bicarbonate	E	Tall Oil	E	Trisodium Phosphate	E

CHEMICAL	RATING	CHEMICAL	RATING	CHEMICAL	RATING
Tung Oil (China Wood Oil)	E	Vinyl Benzene	E	Xylidene (Dimethyl Aniline)	NR
Turbine Oil	E	Vinyl Chloride	E	Zeolites	E
Turpentine	E	Vinyltrimethoxysilane	COK	Zinc Acetate	NR
Undecyl Alcohol	G	Water, Deionized	E	Zinc Chloride	E
Urea 50%	CNR	Water, Distilled	E	Zinc Fluorosilicate	COK
Urine	CNR	Water, Salt	E	Zinc Formate	COK
Varnish	E	Whiskey	E	Zinc Permanganate	COK
Vegetable Oils	E	White Oil	E	Zinc Sulfate	E
Vinegar	E	Wine	E		
Vinyl Acetate	NR	Xylene	E		