

Easy Fit Compression Fittings Chemical Resistance Chart

CHEMICAL RESISTANCE DATA

These recommendations are based upon information from material suppliers and careful examination of available published information and are believed to be accurate. However, since the resistance of metals, plastics and elastomers can be affected by concentration, temperature, presence of other chemicals and other factors, this information should be considered as a general guide rather than an unqualified guarantee. Ultimately, the customer must determine the suitability of the fittings used in various solutions.

All recommendations assume ambient temperatures unless otherwise noted.

RATINGS - CHEMICAL EFFECT

A = No effect - Excellent

B = Minor effect - Good

C = Moderate effect - Fair

D = Severe effect - Not Recommended

FOOTNOTES

1 - Polypropylene - Satisfactory to 22° C

2 - Polypropylene - Satisfactory to 49° C

3 - Buna-N - Satisfactory for "O" Rings

4 - Polyacetal - Satisfactory to 22° C

Added consideration must be given to fitting selections when the chemical is Abrasive or Viscous in nature.

Acetaldehyde - Alcohols (Propyl)

	302 Stainless Steel	Polyacetal	Polypropylene	Buna N (Nitrile)
Acetaldehyde 4	A	A	B	B
Acetamide	-	B	-	A
Acetate Solv. 1	A	-	D	D
Acetic Acid, Glacia	-	D	B	D
Acetic Acid 20%	-	-	A	C
Acetic Acid 80%	-	-	B	C
Acetic Acid	-	D	A	C
Acetic Anhydride	B	D	A	A
Acetone	A	B	B	D
Acetyl Chloride	-	-	-	-
Acetylene 1	A	A	D	A
Acrylonitrile	A	B	B	D
Alcohols				
Amyl	A	A	B	A
Benzyl	-	A	A	D
Butyl	A	A	B	A
Diacetone 1	-	A	D	D
Ethyl	-	B	A	A
Hexyl	-	A	A	A
Isobutyl	-	A	A	C
Isopropyl	-	A	A	C
Methyl	-	C	A	B
Octyl	-	A	-	B
Propyl	-	A	A	A

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Aluminium Chloride - Barium Sulfate

	302 Stainless Steel	Polyacetal	Polypropylene	Buna N (Nitrile)
Aluminium Chloride 20%	-	C	A	A
Aluminium Chloride	C	-	A	A
Aluminium Fluoride	-	C	A	A
Aluminium Hydroxide	-	B	A	A
Alum Potassium Sulfate (Alum), 100%	-	C	A	A
Aluminium Sulfate	-	C	A	A
Amines	A	D	-	D
Ammonia 10%	-	-	A	D
Ammonia, Anhydrous	A	D	A	B
Ammonia, Liquids	-	D	A	B
Ammonia, Nitrate	-	C	A	A
Ammonium Bifluoride	-	D	A	A
Ammonium Carbonate	B	D	A	D
Ammonium Casenite	-	D	-	-
Ammonium Chloride	C	B	A	A
Ammonium Hydroxide	A	D	A	B
Ammonium Nitrate	A	C	A	A
Ammonium Oxalate	-	B	-	A
Ammonium Persulfate	-	D	A	A
Ammonium Phosphate, Dibasic	B	B	A	A
Ammonium Phosphate, Monobasic	-	B	A	A
Ammonium Phosphate, Tribasic	B	B	A	A
Ammonium Sulfate	C	B	A	A
Ammonium Thio-Sulfate	-	B	-	A
Amyl-Acetate	B	A	D	D
Amyl Alcohol	-	A	A	B
Amyl Chloride	-	A	D	D
Aniline	B	D	B	D
Anti-Freeze	-	A	A	A
Aqua Regia (80%, HCl, 20%, HNO)	-	D	C	D
Arochlor 1248	-	-	-	D
Aromatic Hydrocarbons	-	A	-	D
Arsenic Acid	B	D	A	A
Asphalt	-	A	A	B
Barium Carbonate	B	A	A	A
Barium Chloride	C	A	A	A
Barium Cyanide	-	B	-	C
Barium Hydroxide	B	D	A	A
Barium Nitrate	-	A	-	A
Barium Sulfate	B	A	A	A

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Beet Sugar Liquids - Chlorobenzene

	302 Stainless Steel	Polyacetal	Polypropylene	Buna N (Nitrile)
Beet Sugar Liquids	A	B	A	A
Benzaldehyde 2	A	A	D	D
Benzene 1	B	A	D	D
Benzoic Acid 1	B	B	D	D
Benzol	-	A	A	D
Borax (Sodium Borate)	-	A	A	B
Boric Acid	B	A	A	A
Brewery Slop	-	A	-	A
Bromine (wet) 1	D	D	D	D
Butadiene	A	A	-	A
Butane 1	A	A	D	A
Butter	-	A	-	A
Buttermilk	A	A	-	A
Butylene	A	A	-	B
Butyl Acetate	-	A	D	B
Butyric Acid	B	C	A	D
Calcium Bisulfate	C	-	-	A
Calcium Bisulfide	-	D	A	A
Calcium Bisulfite	-	-	A	A
Calcium Carbonate	B	A	A	A
Calcium Chloride	C	D	A	A
Calcium Hydroxide	B	B	A	A
Calcium Hypochlorite	D	D	A	B
Calcium Sulfate	B	A	A	A
Calgon	-	B	A	A
Cane Juice 1	-	A	D	A
Carbon Bisulfide 1	B	A	D	D
Carbon Disulfide 1	-	A	D	D
Carbon Monoxide	-	A	A	A
Carbon Tetrachloride 1	B	A	D	C
Carbonated Water	B	A	A	A
Carbonic Acid	B	A	A	B
Catsup	-	B	A	A
Chloracetic Acid 1	D	D	D	D
Chloric Acid	-	-	-	D
Chlorinated Glue	-	-	-	C
Chlorine, Anhydrous Liquid	-	D	D	D
Chlorine (dry)	B	-	-	-
Chlorine Water	D	-	D	D
Chlorobenzene (Mono)	A	A	D	D

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Chloroform - Ferrous Chloride

	302 Stainless Steel	Polyacetal	Polypropylene	Buna N (Nitrile)
Chloroform	A	A	D	D
Chlorosulfonic Acid	D	D	D	D
Chlorox (Bleach)	-	D	D	C
Chocolate Syrup	-	A	A	A
Chromic Acid 5%	-	D	A	D
Chromic Acid 10%	-	-	A	D
Chromic Acid 30%	-	-	A	D
Chromic Acid 50%	C	D	B	D
Cider - A A A B	-	B	-	A
Citric Acid	-	B	B	D
Citric Oils	-	B	A	A
Coffee	A	A	A	A
Copper Chloride	C	B	A	A
Copper Cyanide	-	B	A	B
Copper Floborate	-	B	-	B
Copper Nitrate	B	B	A	A
Copper Sulfate (5% Sol)	-	B	A	A
Copper Sulfate	B	-	A	B
Cream	-	A	A	A
Cresols 1	-	D	C	D
Cresylic Acid	B	D	-	D
Cyclohexane	-	A	D	A
Cyanic Acid	-	D	-	C
Detergents	-	B	A	A
Diesel Fuel	A	A	D	A
Diethylamine	A	D	C	B
Diethylene Glycol	-	A	-	A
Diphenyl Oxide	-	A	-	D
Dyes	-	A	-	-
Epsom Salts (Magnesium Sulfate)	B	A	A	A
Ethane	A	A	-	A
Ethanolamine	-	D	-	B
Ether 2	A	A	-	D
Ethyl Acetate 1	-	A	C	D
Ethyl Chloride	-	A	D	D
Ethyl Sulfate	-	B	-	A
Ethylene Chloride 1	-	A	D	D
Ethylene Dichloride	-	A	A	D
Ethylene Glycol 3	-	A	A	A
Ethylene Oxide	-	A	-	D
Fatty Acids	-	A	A	C
Ferric Acid	-	B	A	D
Ferric Nitrate	-	B	A	A
Ferric Sulfate	-	B	A	B
Ferrous Chloride	-	B	A	B

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Ferrous Sulfate - Hydrofluosilicic Acid

	302 Stainless Steel	Polyacetal	Polypropylene	Buna N (Nitrile)
Ferrous Sulfate	B	B	A	B
Fluoboric Acid	-	B	A	B
Fluorine	D	-	-	-
Fluosilicic Acid	-	B	A	A
Formaldehyde 40%	-	-	A	B
Formaldehyde	A	A	A	C
Formic Acid	C	D	A	D
Freon 111	A	A	-	C
Freon 12 (wet) 1	-	A	A	A
Freon 22	-	A	-	D
Freon 113	-	A	-	A
Freon T.F.4	-	A	D	A
Fruit Juice	A	B	A	A
Fuel Oils	A	A	B	A
Furan Resin	-	A	-	D
Furfural	A	B	D	D
Gallic Acid	B	-	-	A
Gasoline 3	A	A	C	A
Gelatin	A	A	A	A
Glucose	A	A	A	A
Glue P.V.A.	B	A	-	A
Glycerine	A	A	A	A
Glycolic Acid	-	C	A	A
Gold Monocyanide	-	A	-	A
Grape Juice	-	B	-	A
Grease 3	A	A	-	A
Heptane	A	A	D	A
Hexane	A	A	C	A
Honey	-	A	A	A
Hydraulic Oils (Petroleum)	A	A	D	A
Hydraulic Oils (Synthetic)	-	A	D	C
Hydrazine	-	D	-	B
Hydrobromic Acid 20%	-	-	A	D
Hydrobromic Acid 3	D	D	B	D
Hydrochloric Acid (Dry Gas)	D	-	-	-
Hydrochloric Acid 20% 3	-	D	A	C
Hydrochloric Acid 37% 3	-	D	A	C
Hydrochloric Acid 100%	-	-	-	D
Hydrocyanic Acid	A	B	A	C
Hydrofluoric Acid 20%	-	D	A	D
Hydrofluoric Acid 75% 1	-	D	B	D
Hydrofluoric Acid 100%	D	-	-	D
Hydrofluosilicic Acid 20%	-	D	A	B

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Hydrogen Gas - Methyl Acrylate

	302 Stainless Steel	Polyacetal	Polypropylene	Buna N (Nitrile)
Hydrogen Gas	A	-	-	-
Hydrogen Peroxide 10%	-	-	-	A
Hydrogen Peroxide 30%	-	-	A	D
Hydrogen Peroxide	-	D	A	D
Hydrogen Sulfide, Aqueous Solution	-	D	A	C
Hydrogen Sulfide (dry)	A	-	-	-
Hydroxyacetic Acid (70%)	-	D	-	A
Ink	A	A	-	A
Iodine	-	C	D	B
Iodine (in Alcohol)	-	-	B	D
Iodoform	B	-	-	-
Isotane 1	-	A	D	A
Isopropyl Acetate	-	A	-	D
Isopropyl Ether 1	A	A	D	B
Jet Fuel (JP#, JP4, JP5)	A	A	D	A
Kerosene 1	A	A	D	A
Ketones	A	B	D	D
Lacquers	A	A	A	D
Lacquer Thinners	-	-	B	D
Lactic Acid	A	B	A	B
Lard	B	A	A	A
Latex	-	A	-	A
Lead Acetate	B	A	A	B
Lead Sulfamate	-	A	A	B
Ligroin 2	-	A	D	A
Lime	-	D	-	A
Lubricants	-	A	A	A
Magnesium Carbonate	-	A	A	A
Magnesium Chloride	B	A	A	A
Magnesium Hydroxide	A	A	A	B
Magnesium Nitrate	-	A	A	A
Magnesium Oxide	-	A	-	A
Magnesium Sulfate	B	A	A	A
Maleic Acid	C	C	C	A
Maleic Anhydride	-	C	-	D
Malic Acid	B	-	-	D
Mash	-	A	-	-
Mayonnaise	A	A	A	A
Melamine	-	D	-	A
Mercuric Chloride (Dilute Solution)	D	A	A	C
Mercuric Cyanide	A	A	A	A
Mercury	A	A	A	A
Methanol (See Alcohol Methyl)				
Methyl Acetate	A	A	-	D
Methyl Acrylate	-	A	-	D

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Methyl Acetone - Oils / Fuels

	302 Stainless Steel	Polyacetal	Polypropylene	Buna N (Nitrile)
Methyl Acetone	A	A	-	D
Methyl Alcohol 10%	A	-	-	B
Methyl Bromide	-	A	-	B
Methyl Butyl Ketone	-	B	-	D
Methyl Cellosolve	-	B	A	D
Methyl Chloride	-	A	D	D
Methyl Dichloride	-	A	-	D
Methyl Ethyl Ketone	-	B	A	D
Methyl Isobutyl Ketone 1	-	B	C	D
Methyl Isopropyl Ketone	-	B	-	D
Methyl Methacrylate	-	A	-	D
Methylamine	A	D	-	B
Methylene Chloride	A	A	D	D
Milk	A	A	A	A
Molasses	A	A	A	A
Mustard	A	B	A	B
Naptha	A	A	A	B
Napthalene	B	A	B	D
Nickel Chloride	-	B	A	A
Nickel Sulfate	B	B	A	A
Nitric Acid (10% Solution)	A	D	A	D
Nitric Acid (20% Solution)	-	D	A	D
Nitric Acid (50% Solution)	-	D	D	D
Nitric Acid (Concentrated Solution)	-	D	D	D
Nitrobenzene 1	B	B	C	D
Oils				
Aniline	-	D	A	D
Anise	-	A	-	-
Bay	-	A	-	-
Bone	-	A	-	A
Castor	-	A	-	A
Cinnamon	-	A	A	-
Citric	-	A	A	A
Clove	-	A	B	A
Coconut	-	A	A	A
Cod Liver	-	A	A	A
Corn	-	A	A	A
Cotton Seed	B	A	A	A
Cresote 1	-	D	D	A
Diesel Fuel (2D, 3D, 4D, 5D)	-	A	A	A
Fuel (1,2,3,5A, 5B, 6)	-	A	B	B

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Oils / Fuels (Cont'd) - Bronze Plating

	302 Stainless Steel	Polyacetal	Polypropylene	Buna N (Nitrile)
Ginger	-	A	-	A
Hydraulic (See Hydraulic Oils)				
Lemon	-	A	D	-
Linseed	-	A	A	A
Mineral	A	A	B	A
Olive	A	A	A	A
Orange	-	A	A	A
Palm	-	A	-	A
Peanut 2	-	A	D	A
Peppermint 1	-	A	D	D
Pine	A	A	-	A
Rape Seed	-	A	-	B
Rosin	-	A	A	A
Sesame Seed	-	A	-	A
Silicone	-	A	A	A
Soybean	-	A	A	A
Sperm	-	A	-	A
Tanning	-	A	-	A
Turbine	-	A	-	B
Oleic Acid	B	B	C	D
Oleum 25%	-	-	-	C
Oleum	B	D	D	B
Oxalic Acid (Cold)	C	C	A	A
Ozone	A	C	D	D
Paraffin	A	A	A	A
Pentane	A	A	-	C
Perchloroethylene 1	B	A	D	A
Petrolatum	A	A	-	D
Phenol 10%	B	-	-	D
Phenol (Carbolic Acid)	B	D	B	D
Phosphoric Acid (to 40% Solution)	-	D	A	D
Phosphoric Acid (40-100% Solution)	-	D	A	D
Phosphoric Acid (Crude)	-	D	-	D
Phosphoric Anhydride (Dry or Moist)	-	-	-	D
Phosphoric Anhydride (Molten)	-	-	-	C
Photographic (Developer)	-	C	A	A
Phthalic Anhydride	B	-	-	C
Picric Acid	B	-	-	A
Plating Solutions				
Antimony Plating 54°C	-	-	A	A
Arsenic Plating 43°C	-	-	A	A
Brass Plating				
Regular Brass Bath 38°C	-	-	A	A
High Speed Brass Bath 43°C	-	-	A	A
Bronze Plating				
Copper-Cadmium Bronze Bath R.T.	-	-	A	A
Copper-Tin Bronze Bath 71°C	-	-	A	A

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Platings (Cont'd) - Zinc Plating

	302 Stainless Steel	Polyacetal	Polypropylene	Buna N (Nitrile)
Bronze Plating				
Copper-Zinc Bronze Bath 38°C	-	-	A	A
Cadmium Plating				
Cyanide Bath 32°C	-	-	A	A
Fluoborate Bath 38°C	-	-	A	B
Chromium Plating				
Chromic-Sulfuric Bath 54°C	-	-	A	D
Fluosilicate Bath 35°C	-	-	A	D
Fluoride Bath 54°C	-	-	A	D
Black Chrome Bath 46°C	-	-	A	D
Barrel Chrome Bath 35°C	-	-	A	D
Copper Plating (Cyanide)				
Copper Strike Bath 49°C	-	-	A	-
Rochelle Salt Bath 66°C	-	-	A	A
High Speed Bath 82°C	-	-	A	A
Copper Plating (Acid)				
Copper Sulfate Bath R.T.	-	-	A	A
Copper Fluoborate Bath 49°C	-	-	A	B
Copper (Misc.)				
Copper Pyrophosphate 60°C	-	-	A	A
Copper (Electroless) 60°C	-	-	A	D
Gold Plating				
Cyanide 66°C	-	-	A	A
Neutral 24°C	-	-	A	A
Acid 24°C	-	-	A	A
Indium Sulfamate Plating R.T.	-	-	A	A
Iron Plating				
Ferrous Chloride Bath 88°C	-	-	C	B
Ferrous Sulfate Bath 66°C	-	-	A	A
Ferrous Am. Sulfate Bath 66°C	-	-	A	A
Sulfate-Chloride Bath 71°C	-	-	A	B
Fluoborate Bath 63°C	-	-	A	B
Sulfamate 60°C	-	-	A	A
Lead Fluoborate Plating	-	-	A	B
Nickel Plating				
Watts Type 46-71°C	-	-	A	A
High Chloride 54-71°C	-	-	A	A
Fluoborate 38-77°C	-	-	A	B
Sulfamate 38-60°C	-	-	A	A
Electroless 93°C	-	-	D	D
Rhodium Plating 49°C	-	D	A	A
Silver Plating 27-49°C	-	-	A	A
Tin-Fluoborate Plating 38°C	-	-	A	B
Tine-Lead Plating 38°C	-	-	A	B
Zinc Plating				
Acid Chloride 60°C	-	-	A	A
Acid Sulfate Bath 66°C	-	-	A	A

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Platings (Cont'd) - Sodium Hydrosulfite

	302 Stainless Steel	Polyacetal	Polypropylene	Buna N (Nitrile)
Acid Fluoborate Bath R.T.	-	-	A	B
Alkaline Cyanide Bath R.T.	-	-	A	A
Potash	-	B	A	A
Potassium Bicarbonate	-	C	A	A
Potassium Bromide	A	A	A	A
Potassium Carbonate	B	B	A	B
Potassium Chlorate	B	B	A	A
Potassium Chloride	C	A	A	A
Potassium Chromate	-	C	-	A
Potassium Cyanide Solutions	B	C	A	A
Potassium Dichromate	B	C	A	A
Potassium Ferrocyanide	B	-	-	D
Potassium Hydroxide (50%)	A	D	A	B
Potassium Nitrate	B	B	A	A
Potassium Permanganate	B	C	B	A
Potassium Sulfate	B	B	A	A
Potassium Sulfide	A	-	-	A
Propane (Liquified) 1	A	A	D	A
Propylene Glycol	B	B	-	A
Pyridine	-	D	B	D
Pyrogalllic Acid	B	D	-	A
Rosins	A	B	A	A
Rum	-	A	A	A
Rust Inhibitors	-	A	A	A
Salad Dressing	-	A	A	A
Sea Water	A	A	A	A
Shellac (Bleached)	A	A	A	A
Shellac (Orange)	A	A	A	A
Silicone	-	A	A	A
Silver Bromide	-	C	-	-
Silver Nitrate	B	C	A	C
Soap Solutions	A	A	A	A
Soda Ash (See Sodium Carbonate)				
Sodium Acetate	B	B	A	D
Sodium Aluminate	B	B	-	A
Sodium Bicarbonate	B	B	A	A
Sodium Bisulfate	A	B	A	A
Sodium Bisulfate	-	B	A	A
Sodium Borate	B	-	-	-
Sodium Carbonate	B	A	A	A
Sodium Chlorate	B	D	A	D
Sodium Chloride	B	A	A	A
Sodium Chromate	A	D	A	A
Sodium Cyanide	B	D	A	A
Sodium Fluoride	B	-	-	D
Sodium Hydrosulfite	-	-	-	-

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Sodium Hydroxide - Tartaric Acid

	302 Stainless Steel	Polyacetal	Polypropylene	Buna N (Nitrile)
Sodium Hydroxide (20%)	-	D	A	A
Sodium Hydroxide (50% Solution)	-	D	A	D
Sodium Hydroxide (80% Solution)	-	D	A	D
Sodium Hypochlorite (to 20%)	-	D	D	C
Sodium Hypochlorite	D	-	A	B
Sodium Metaphosphate 1	A	B	D	A
Sodium Metasilicate	A	D	-	A
Sodium Nitrate	B	B	A	C
Sodium Perborate	B	B	A	B
Sodium Peroxide	B	D	-	C
Sodium Polyphosphate (Mono, Di, Tribasic)	-	B	-	A
Sodium Silicate	B	C	A	A
Sodium Sulfate	B	B	A	A
Sodium Sulfite	B	B	A	C
Sodium Sulfide	-	-	-	A
Sodium Tetraborate	-	B	-	A
Sodium Thiosulphate ("Hypo")	A	C	A	B
Sorghum	-	A	-	A
Soy Sauce	-	A	-	A
Stannic Chloride	D	C	A	A
Stannic Fluoborate	-	C	-	A
Stannous Chloride	D	-	-	C
Starch	B	A	-	A
Stearic Acid 1	B	A	D	B
Stoddard Solvent	A	A	D	B
Styrene	A	A	-	D
Sugar (Liquids)	A	A	A	A
Sulfate Liquors	-	D	A	-
Sulfur Chloride	-	D	D	D
Sulfur Dioxide 1	-	B	D	D
Sulfur Dioxide (dry)	A	-	-	-
Sulfur Trioxide (dry)	A	D	-	D
Sulfuric Acid (to 10%)	-	D	A	C
Sulfuric Acid 10%-75% 1	-	D	A	D
Sulfuric Acid 75%-100%	-	-	B	D
Sulfurous Acid	C	D	A	C
Syrup	-	A	A	A
Tallow	-	A	-	A
Tannic Acid	B	B	A	D
Tanning Liquors	-	B	A	C
Tartaric Acid	B	B	A	D

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This chart is for Hansen Easy Fit Compression Fittings and Hansen Easy Fit ID Compression Fittings.

Tetrachlorethane - Zinc Sulfate

	302 Stainless Steel	Polyacetal	Polypropylene	Buna N (Nitrile)
Tetrachlorethane	-	A	A	D
Tetrahydrofuran	-	A	C	D
Toluene, Toluol 2	A	A	D	D
Tomato Juice	A	B	A	A
Trichlorethane	-	A	-	D
Trichlorethylene 1	B	A	D	D
Trichloropropane	-	A	-	A
Tricresylphosphate	-	C	-	D
Triethylamine	-	D	-	A
Turpentine 2	B	A	B	D
Urine	-	A	A	A
Vegetable Juice	-	A	-	A
Vinegar	A	B	-	C
Varnish (Use Viton for Aromatic)	A	A	A	B
Water, Acid, Mine	-	D	A	A
Water, Distilled, Lab Grade 7	-	A	A	A
Water, Fresh	A	A	A	A
Water, Salt	-	A	A	A
Weed Killers	-	A	-	B
Whey	-	A	-	A
Whiskey & Wines	A	A	A	A
White Liquor (Pulp Mill)	-	D	A	A
White Water (Paper Mill)	-	B	A	-
Xylene 1	A	A	D	D
Zinc Chloride	D	C	A	A
Zinc Hydrosulphite	-	C	-	A
Zinc Sulfate	B	C	A	A

A= No effect - Excellent **B**= Minor effect - Good **C**= Moderate effect - Fair **D**= Severe effect - Not Recommended

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