

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 of other chemicals 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 material used with various solutions and environments. All recommendations assume ambient temperatures unless otherwise noted.

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Ratings

- Excellent
- Good - Minor Effect, slight corrosion or discoloration
- Fair - Moderate Effect, not recommended for continuous use
- Severe Effect, not recommended for ANY use
- Information not available at time of Publishing

CONDUIT ALLOY COMPATABILITY

Chemical	304 Stainless Steel	316 Stainless Steel
Acetaldehyde	Excellent	Excellent
Acetamide	Good	Excellent
Acetate Solvent	Excellent	Excellent
Acetic Acid 20%	Good	Excellent
Acetic Acid 80%	Severe	Good
Acetic Acid, Glacial	Good	Excellent
Acetic Anhydride	Good	Excellent
Acetone	Excellent	Excellent
Acetylene Bromide	Good	Good
Acetylene Chloride (dry)	Excellent	Excellent
Acetylene	Excellent	Excellent
Acrylonitrile	Excellent	Excellent
Adipic Acid	Excellent	Excellent
Alcohols: Amyl	Excellent	Excellent
Alcohols: Benzyl	Good	Good
Alcohols: Butyl	Excellent	Excellent
Alcohols: Diacetone	Excellent	Excellent
Alcohols: Ethyl	Excellent	Excellent
Alcohols: Hexyl	Excellent	Excellent
Alcohols: Isobutyl	Excellent	Excellent
Alcohols: Isopropyl	Good	Good
Alcohols: Methyl	Excellent	Excellent
Alcohols: Octyl	Excellent	Excellent
Alcohols: Propyl	Excellent	Excellent
Aluminum Chloride	Good	Good
Aluminum Chloride 20%	Severe	Fair
Aluminum Hydroxide	Excellent	Fair

Chemical	Aluminum	PVC	GALV-ZINC STEEL
Acetaldehyde	Good	Fair	Excellent
Acetamide	Excellent	Fair	Information not available
Acetate Solvent	Excellent	Severe	Information not available
Acetic Acid 20%	Good	Information not available	Severe
Acetic Acid 80%	Severe	Information not available	Severe
Acetic Acid, Glacial	Good	Fair	Severe
Acetic Anhydride	Excellent	Information not available	Information not available
Acetone	Excellent	Severe	Good
Acetylene Bromide	Information not available	Information not available	Fair
Acetylene Chloride (dry)	Severe	Information not available	Information not available
Acetylene	Excellent	Information not available	Fair
Acrylonitrile	Good	Excellent	Information not available
Adipic Acid	Excellent	Information not available	Information not available
Alcohols: Amyl	Good	Information not available	Information not available
Alcohols: Benzyl	Good	Information not available	Information not available
Alcohols: Butyl	Good	Information not available	Information not available
Alcohols: Diacetone	Excellent	Information not available	Information not available
Alcohols: Ethyl	Good	Information not available	Information not available
Alcohols: Hexyl	Excellent	Information not available	Information not available
Alcohols: Isobutyl	Good	Information not available	Information not available
Alcohols: Isopropyl	Good	Information not available	Information not available
Alcohols: Methyl	Excellent	Information not available	Information not available
Alcohols: Octyl	Excellent	Information not available	Information not available
Alcohols: Propyl	Excellent	Information not available	Information not available
Aluminum Chloride	Severe	Excellent	Good
Aluminum Chloride 20%	Severe	Excellent	Fair
Aluminum Hydroxide	Good	Excellent	Good

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CONDUIT ALLOY COMPATABILITY

Chemical	304 Stainless Steel	316 Stainless Steel
Aluminum Nitrate	Excellent	Excellent
Aluminum Potassium Sulfate 10%	Excellent	Excellent
Aluminum Potassium Sulfate 100%	Severe Effect	Good
Aluminum Sulfate	Good	Good
Alums	Information not available	Excellent
Amines	Excellent	Excellent
Ammonia 10%	Excellent	Excellent
Ammonia Nitrate	Excellent	Excellent
Ammonia, Anhydrous	Excellent	Excellent
Ammonia, Liquid	Good	Excellent
Ammonium Acetate	Good	Excellent
Ammonium Bifluoride	Severe Effect	Good
Ammonium Carbonate	Good	Good
Ammonium Caseinate	Information not available	Excellent
Ammonium Chloride	Fair	Good
Ammonium Hydroxide	Excellent	Excellent
Ammonium Nitrate	Excellent	Excellent
Ammonium Oxalate	Excellent	Excellent
Ammonium Persulfate	Excellent	Excellent
Ammonium Phosphate, Dibasic	Fair	Good
Ammonium Phosphate, Monobasic	Fair	Good
Ammonium Phosphate, Tribasic	Good	Good
Ammonium Sulfate	Good	Excellent

Chemical	Aluminum	PVC	GALV-ZINC STEEL
Aluminum Nitrate	Severe Effect	Information not available	Fair
Aluminum Potassium Sulfate 10%	Fair	Information not available	Severe Effect
Aluminum Potassium Sulfate 100%	Fair	Excellent	Severe Effect
Aluminum Sulfate	Good	Excellent	Fair
Alums	Excellent	Information not available	Information not available
Amines	Good	Fair	Information not available
Ammonia 10%	Excellent	Information not available	Information not available
Ammonia Nitrate	Fair	Good	Information not available
Ammonia, Anhydrous	Excellent	Severe Effect	Information not available
Ammonia, Liquid	Excellent	Excellent	Information not available
Ammonium Acetate	Excellent	Information not available	Severe Effect
Ammonium Bifluoride	Good	Information not available	Good
Ammonium Carbonate	Good	Information not available	Good
Ammonium Caseinate	Information not available	Information not available	Information not available
Ammonium Chloride	Good	Excellent	Fair
Ammonium Hydroxide	Good	Excellent	Information not available
Ammonium Nitrate	Good	Excellent	Information not available
Ammonium Oxalate	Information not available	Information not available	Information not available
Ammonium Persulfate	Severe Effect	Excellent	Information not available
Ammonium Phosphate, Dibasic	Good	Excellent	Information not available
Ammonium Phosphate, Monobasic	Good	Excellent	Information not available
Ammonium Phosphate, Tribasic	Good	Excellent	Information not available
Ammonium Sulfate	Excellent	Excellent	Fair

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CONDUIT ALLOY COMPATABILITY

Chemical	304 Stainless Steel	316 Stainless Steel
Ammonium Sulfite	Good	Good
Ammonium Thiosulfate	Information not available	Excellent
Amyl Acetate	Excellent	Excellent
Amyl Alcohol	Excellent	Excellent
Amyl Chloride	Excellent	Excellent
Aniline	Excellent	Good
Aniline Hydrochloride	Severe	Severe
Antifreeze	Information not available	Excellent
Antimony Trichloride	Severe	Severe
Aqua Regia (80% HCl, 20% HN03)	Severe	Severe
Arochlor 1248	Good	Good
Aromatic Hydrocarbons	Information not available	Fair
Arsenic Acid	Excellent	Excellent
Arsenic Salts	Information not available	Information not available
Asphalt	Good	Excellent
Barium Carbonate	Good	Good
Barium Chloride	Excellent	Excellent
Barium Cyanide	Excellent	Excellent
Barium Hydroxide	Good	Good
Barium Nitrate	Good	Good
Barium Sulfate	Good	Good
Barium Sulfide	Good	Good
Beer	Excellent	Excellent
Beet Sugar Liquids	Excellent	Excellent
Benzaldehyde	Good	Good

Chemical	Aluminum	PVC	GALV-ZINC STEEL
Ammonium Sulfite	Severe	Information not available	Good
Ammonium Thiosulfate	Information not available	Information not available	Information not available
Amyl Acetate	Excellent	Severe	Information not available
Amyl Alcohol	Good	Excellent	Information not available
Amyl Chloride	Excellent	Severe	Information not available
Aniline	Fair	Severe	Good
Aniline Hydrochloride	Severe	Information not available	Information not available
Antifreeze	Excellent	Excellent	Information not available
Antimony Trichloride	Severe	Information not available	Information not available
Aqua Regia (80% HCl, 20% HN03)	Severe	Severe	Information not available
Arochlor 1248	Excellent	Information not available	Information not available
Aromatic Hydrocarbons	Excellent	Severe	Information not available
Arsenic Acid	Severe	Excellent	Information not available
Arsenic Salts	Information not available	Information not available	Information not available
Asphalt	Excellent	Severe	Information not available
Barium Carbonate	Severe	Information not available	Information not available
Barium Chloride	Severe	Excellent	Information not available
Barium Cyanide	Fair	Information not available	Information not available
Barium Hydroxide	Severe	Excellent	Fair
Barium Nitrate	Good	Good	Good
Barium Sulfate	Good	Excellent	Good
Barium Sulfide	Severe	Excellent	Information not available
Beer	Excellent	Information not available	Information not available
Beet Sugar Liquids	Excellent	Excellent	Information not available
Benzaldehyde	Good	Severe	Information not available

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CONDUIT ALLOY COMPATABILITY

Chemical	304 Stainless Steel	316 Stainless Steel
Benzene	Good	Good
Benzene Sulfonic Acid	Good	Good
Benzoic Acid	Good	Good
Benzol	Excellent	Excellent
Benzyl Chloride	Fair	Good
Bleaching Liquors	Information not available	Information not available
Borax (Sodium Borate)	Excellent	Excellent
Boric Acid	Good	Excellent
Brewery Slop	Information not available	Excellent
Butadiene	Excellent	Excellent
Butane	Excellent	Excellent
Butanol (Butyle Alcohol)	Excellent	Excellent
Buttermilk	Excellent	Excellent
Butyle Amine	Information not available	Excellent
Butyle Ether	Information not available	Excellent
Butyle Phthalate	Good	Good
Butylacetate	Good	Excellent
Butylene	Excellent	Excellent
Butyric Acid	Good	Good
Calcium Bisulfate	Good	Excellent
Calcium Bisulfide	Good	Good
Calcium Bisulfite	Good	Excellent
Calcium Carbonate	Excellent	Good
Calcium Chlorate	Good	Good
Calcium Chloride	Good	Good
Calcium Hydroxide	Good	Good
Calcium Hypochlorite	Fair	Good

Chemical	Aluminum	PVC	GALV-ZINC STEEL
Benzene	Good	Severe	Fair
Benzene Sulfonic Acid	Severe	Information not available	Information not available
Benzoic Acid	Good	Excellent	Information not available
Benzol	Good	Severe	Information not available
Benzyl Chloride	Severe	Information not available	Information not available
Bleaching Liquors	Information not available	Information not available	Information not available
Borax (Sodium Borate)	Good	Excellent	Good
Boric Acid	Severe	Excellent	Severe
Brewery Slop	Information not available	Information not available	Information not available
Butadiene	Excellent	Excellent	Information not available
Butane	Excellent	Excellent	Information not available
Butanol (Butyle Alcohol)	Good	Good	Information not available
Buttermilk	Excellent	Information not available	Information not available
Butyle Amine	Excellent	Information not available	Information not available
Butyle Ether	Excellent	Information not available	Information not available
Butyle Phthalate	Good	Information not available	Information not available
Butylacetate	Excellent	Severe	Information not available
Butylene	Excellent	Good	Excellent
Butyric Acid	Good	Good	Information not available
Calcium Bisulfate	Information not available	Excellent	Information not available
Calcium Bisulfide	Fair	Excellent	Information not available
Calcium Bisulfite	Severe	Excellent	Information not available
Calcium Carbonate	Severe	Excellent	Information not available
Calcium Chlorate	Information not available	Excellent	Good
Calcium Chloride	Severe	Excellent	Fair
Calcium Hydroxide	Fair	Excellent	Fair
Calcium Hypochlorite	Severe	Excellent	Severe

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CONDUIT ALLOY COMPATABILITY

Chemical	304 Stainless Steel	316 Stainless Steel
Calcium Nitrate	Orange	Yellow
Calcium Oxide	Green	Green
Calcium Sulfate	Yellow	Yellow
Calgon	Green	Green
Cane Juice	Green	Green
Carbolic Acid (Phenol)	Yellow	Yellow
Carbon Bisulfide	Green	Yellow
Carbon Dioxide (dry)	Green	Green
Carbon Dioxide (wet)	Green	Green
Carbon Disulfide	Green	Yellow
Carbon Monoxide	Green	Green
Carbon Tetrachloride	Yellow	Yellow
Carbon Tetrachloride(dry)	Yellow	Yellow
Carbon Tetrachloride(wet)	Green	Green
Carbonated Water	Green	Green
Carbonic Acid	Green	Green
Catsup	Green	Green
Chloric Acid	Red	Orange
Chlorinated Glue	Black	Green
Chlorine (dry)	Green	Green
Chlorine Water	Orange	Orange
Chlorine, Anhydrous Liquid	Orange	Orange
Chloroacetic Acid	Yellow	Green
Chlorobenzene(Mono)	Green	Yellow
Chlorobromomethane	Black	Black
Chloroform	Green	Green

Chemical	Aluminum	PVC	GALV-ZINC STEEL
Calcium Nitrate	Yellow	Black	Black
Calcium Oxide	Orange	Black	Black
Calcium Sulfate	Orange	Green	Red
Calgon	Black	Black	Black
Cane Juice	Yellow	Green	Black
Carbolic Acid (Phenol)	Green	Yellow	Red
Carbon Bisulfide	Yellow	Red	Black
Carbon Dioxide (dry)	Yellow	Black	Black
Carbon Dioxide (wet)	Green	Green	Black
Carbon Disulfide	Green	Red	Black
Carbon Monoxide	Green	Black	Black
Carbon Tetrachloride	Red	Red	Black
Carbon Tetrachloride(dry)	Red	Orange	Black
Carbon Tetrachloride(wet)	Red	Black	Black
Carbonated Water	Green	Green	Black
Carbonic Acid	Yellow	Green	Black
Catsup	Red	Green	Black
Chloric Acid	Red	Red	Red
Chlorinated Glue	Black	Black	Black
Chlorine (dry)	Orange	Red	Black
Chlorine Water	Red	Orange	Black
Chlorine, Anhydrous Liquid	Red	Black	Black
Chloroacetic Acid	Red	Black	Black
Chlorobenzene(Mono)	Green	Red	Black
Chlorobromomethane	Black	Black	Black
Chloroform	Yellow	Red	Black

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CONDUIT ALLOY COMPATABILITY

Chemical	304 Stainless Steel	316 Stainless Steel
Chlorosulfonic Acid	Severe Effect	Good
Chocolate Syrup	Excellent	Excellent
Chromic Acid 50%	Fair	Good
Chromic Acid 10%	Good	Good
Chromic Acid 30%	Good	Excellent
Chromic Acid 5%	Good	Excellent
Chromium Salts	Information not available	Information not available
Cider	Excellent	Excellent
Citric Acid	Good	Excellent
Citric Oils	Excellent	Excellent
Cloroxr (Bleach)	Excellent	Excellent
Coffee	Excellent	Excellent
Copper Chloride	Severe Effect	Severe Effect
Copper Cyanide	Good	Good
Copper Fluoborate	Severe Effect	Severe Effect
Copper Nitrate	Excellent	Excellent
Copper Sulfate > 5%	Good	Good
Copper Sulfate 5%	Good	Good
Cream	Excellent	Excellent
Cresols	Excellent	Excellent
Cresylic Acid	Excellent	Excellent
Cupric Acid	Severe Effect	Good
Cyanic Acid	Excellent	Excellent
Cyclohexane	Excellent	Excellent
Cyclohexanone	Excellent	Excellent
Detergents	Excellent	Excellent

Chemical	Aluminum	PVC	GALV-ZINC STEEL
Chlorosulfonic Acid	Fair	Fair	Information not available
Chocolate Syrup	Excellent	Information not available	Information not available
Chromic Acid 50%	Severe Effect	Good	Information not available
Chromic Acid 10%	Severe Effect	Excellent	Information not available
Chromic Acid 30%	Severe Effect	Excellent	Information not available
Chromic Acid 5%	Fair	Excellent	Information not available
Chromium Salts	Information not available	Information not available	Information not available
Cider	Good	Excellent	Information not available
Citric Acid	Fair	Excellent	Information not available
Citric Oils	Fair	Information not available	Information not available
Cloroxr (Bleach)	Excellent	Information not available	Information not available
Coffee	Excellent	Information not available	Information not available
Copper Chloride	Information not available	Excellent	Information not available
Copper Cyanide	Severe Effect	Excellent	Information not available
Copper Fluoborate	Information not available	Excellent	Information not available
Copper Nitrate	Severe Effect	Excellent	Information not available
Copper Sulfate > 5%	Severe Effect	Excellent	Severe Effect
Copper Sulfate 5%	Severe Effect	Excellent	Fair
Cream	Excellent	Information not available	Information not available
Cresols	Excellent	Fair	Information not available
Cresylic Acid	Good	Good	Information not available
Cupric Acid	Severe Effect	Information not available	Information not available
Cyanic Acid	Information not available	Information not available	Information not available
Cyclohexane	Excellent	Good	Excellent
Cyclohexanone	Excellent	Information not available	Good
Detergents	Good	Excellent	Information not available

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CONDUIT ALLOY COMPATABILITY

Chemical	304 Stainless Steel	316 Stainless Steel
Diacetone Alcohol	Good	Good
Dichlorobenzene	Information not available	Good
Dichloroethane	Good	Good
Diesel Fuel	Excellent	Excellent
Diethyl Ether	Good	Good
Diethylamine	Excellent	Excellent
Diethylene Glycol	Excellent	Excellent
Dimethyl Aniline	Good	Good
Dimethyl Formamide	Excellent	Good
Diphenyl	Good	Good
Diphenyl Oxide	Good	Excellent
Dyes	Excellent	Excellent
Epsom Salts (Magnesium Sulfate)	Excellent	Good
Ethane	Excellent	Excellent
Ethanol	Excellent	Excellent
Ethanolamine	Excellent	Excellent
Ether	Excellent	Excellent
Ethyl Acetate	Good	Good
Ethyl Benzoate	Information not available	Information not available
Ethyl Chloride	Excellent	Excellent
Ethyl Ether	Good	Good
Ethyl Sulfate	Severe Effect	Severe Effect
Ethylene Bromide	Excellent	Excellent
Ethylene Chloride	Good	Good
Ethylene Chlorohydrin	Good	Good
Ethylene Diamine	Good	Good

Chemical	Aluminum	PVC	GALV-ZINC STEEL
Diacetone Alcohol	Excellent	Information not available	Information not available
Dichlorobenzene	Good	Information not available	Information not available
Dichloroethane	Good	Severe Effect	Information not available
Diesel Fuel	Excellent	Information not available	Information not available
Diethyl Ether	Good	Excellent	Information not available
Diethylamine	Good	Information not available	Information not available
Diethylene Glycol	Good	Good	Information not available
Dimethyl Aniline	Excellent	Information not available	Information not available
Dimethyl Formamide	Excellent	Information not available	Information not available
Diphenyl	Good	Information not available	Information not available
Diphenyl Oxide	Good	Information not available	Information not available
Dyes	Good	Information not available	Information not available
Epsom Salts (Magnesium Sulfate)	Good	Excellent	Information not available
Ethane	Information not available	Information not available	Information not available
Ethanol	Good	Information not available	Excellent
Ethanolamine	Good	Information not available	Information not available
Ether	Good	Severe Effect	Good
Ethyl Acetate	Excellent	Severe Effect	Information not available
Ethyl Benzoate	Information not available	Severe Effect	Information not available
Ethyl Chloride	Good	Severe Effect	Information not available
Ethyl Ether	Good	Information not available	Excellent
Ethyl Sulfate	Information not available	Information not available	Information not available
Ethylene Bromide	Good	Information not available	Information not available
Ethylene Chloride	Good	Severe Effect	Information not available
Ethylene Chlorohydrin	Good	Information not available	Information not available
Ethylene Diamine	Good	Information not available	Information not available

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CONDUIT ALLOY COMPATABILITY

Chemical	304 Stainless Steel	316 Stainless Steel
Ethylene Dichloride	Good	Good
Ethylene Glycol	Good	Good
Ethylene Oxide	Good	Good
Fatty Acids	Good	Excellent
Ferric Chloride	Severe	Severe
Ferric Nitrate	Good	Good
Ferric Sulfate	Good	Excellent
Ferrous Chloride	Severe	Severe
Ferrous Sulfate	Good	Good
Fluboric Acid	Good	Good
Fluorine	Good	Excellent
Fluosilicic Acid	Fair	Good
Formaldehyde 100%	Good	Excellent
Formaldehyde 40%	Excellent	Excellent
Formic Acid	Good	Excellent
Freon 113	Information not available	Information not available
Freon 12	Good	Good
Freon 22	Excellent	Excellent
Freon TF	Excellent	Excellent
Freon 11	Excellent	Excellent
Fruit Juice	Excellent	Excellent
Fuel Oils	Excellent	Excellent
Furan Resin	Excellent	Excellent
Furfural	Excellent	Good
Gallic Acid	Excellent	Good
Gasoline (high-aromatic)	Excellent	Excellent

Chemical	Aluminum	PVC	GALV-ZINC STEEL
Ethylene Dichloride	Excellent	Severe	Information not available
Ethylene Glycol	Excellent	Good	Excellent
Ethylene Oxide	Severe	Severe	Information not available
Fatty Acids	Excellent	Excellent	Information not available
Ferric Chloride	Severe	Excellent	Information not available
Ferric Nitrate	Severe	Excellent	Information not available
Ferric Sulfate	Severe	Excellent	Information not available
Ferrous Chloride	Severe	Excellent	Information not available
Ferrous Sulfate	Good	Excellent	Information not available
Fluboric Acid	Severe	Excellent	Information not available
Fluorine	Excellent	Fair	Excellent
Fluosilicic Acid	Severe	Excellent	Information not available
Formaldehyde 100%	Excellent	Severe	Information not available
Formaldehyde 40%	Good	Good	Information not available
Formic Acid	Excellent	Severe	Information not available
Freon 113	Information not available	Fair	Information not available
Freon 12	Good	Good	Information not available
Freon 22	Severe	Severe	Information not available
Freon TF	Severe	Good	Information not available
Freon 11	Severe	Good	Information not available
Fruit Juice	Excellent	Excellent	Severe
Fuel Oils	Fair	Excellent	Excellent
Furan Resin	Excellent	Information not available	Information not available
Furfural	Excellent	Fair	Information not available
Gallic Acid	Severe	Excellent	Information not available
Gasoline (high-aromatic)	Severe	Fair	Excellent

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CONDUIT ALLOY COMPATABILITY

Chemical	304 Stainless Steel	316 Stainless Steel
Gasoline, Leaded, ref.	Excellent	Excellent
Gasoline, Unleaded	Excellent	Excellent
Gelatin	Excellent	Excellent
Glucose	Excellent	Excellent
Glue, P.V.A	Excellent	Excellent
Glycerin	Excellent	Excellent
Glycolic Acid	Excellent	Excellent
Gold Monocyanide	Excellent	Excellent
Grape Juice	Excellent	Excellent
Grease	Excellent	Excellent
Heptane	Excellent	Excellent
Hexane	Excellent	Excellent
Honey	Excellent	Excellent
Hydraulic Oil (Petro)	Excellent	Excellent
Hydraulic Oil (Synthetic)	Excellent	Excellent
Hydrazine	Excellent	Excellent
Hydrobromic Acid 100%	Severe Effect	Severe Effect
Hydrobromic Acid 20%	Severe Effect	Severe Effect
Hydrochloric Acid 100%	Severe Effect	Severe Effect
Hydrochloric Acid 20%	Severe Effect	Severe Effect
Hydrochloric Acid 37%	Severe Effect	Severe Effect
Hydrochloric Acid, Dry Gas	Severe Effect	Fair
Hydrocyanic Acid	Good	Excellent

Chemical	Aluminum	PVC	GALV-ZINC STEEL
Gasoline, Leaded, ref.	Excellent	Fair	Excellent
Gasoline, Unleaded	Excellent	Fair	Excellent
Gelatin	Excellent	Excellent	Excellent
Glucose	Excellent	Excellent	Information not available
Glue, P.V.A	Excellent	Excellent	Excellent
Glycerin	Excellent	Excellent	Information not available
Glycolic Acid	Information not available	Information not available	Information not available
Gold Monocyanide	Information not available	Information not available	Information not available
Grape Juice	Information not available	Excellent	Fair
Grease	Information not available	Excellent	Excellent
Heptane	Excellent	Fair	Excellent
Hexane	Excellent	Fair	Excellent
Honey	Excellent	Excellent	Excellent
Hydraulic Oil (Petro)	Excellent	Information not available	Excellent
Hydraulic Oil (Synthetic)	Excellent	Information not available	Excellent
Hydrazine	Information not available	Information not available	Information not available
Hydrobromic Acid 100%	Severe Effect	Excellent	Severe Effect
Hydrobromic Acid 20%	Severe Effect	Excellent	Severe Effect
Hydrochloric Acid 100%	Severe Effect	Excellent	Severe Effect
Hydrochloric Acid 20%	Severe Effect	Excellent	Severe Effect
Hydrochloric Acid 37%	Severe Effect	Excellent	Severe Effect
Hydrochloric Acid, Dry Gas	Fair	Excellent	Severe Effect
Hydrocyanic Acid	Excellent	Excellent	Severe Effect

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CONDUIT ALLOY COMPATABILITY

Chemical	304 Stainless Steel	316 Stainless Steel
Hydrocyanic Acid (Gas 10%)	Information not available at time of Publishing	Information not available at time of Publishing
Hydrofluoric Acid 100%	Good - Minor Effect, slight corrosion or discoloration	Good - Minor Effect, slight corrosion or discoloration
Hydrofluoric Acid 20%	Severe Effect, not recommended for ANY use	Severe Effect, not recommended for ANY use
Hydrofluoric Acid 50%	Severe Effect, not recommended for ANY use	Severe Effect, not recommended for ANY use
Hydrofluoric Acid 75%	Severe Effect, not recommended for ANY use	Severe Effect, not recommended for ANY use
Hydrofluosilicic Acid 100%	Severe Effect, not recommended for ANY use	Severe Effect, not recommended for ANY use
Hydrofluosilicic Acid 20%	Fair - Moderate Effect, not recommended for continuous use	Good - Minor Effect, slight corrosion or discoloration
Hydrogen Gas	Excellent	Excellent
Hydrogen Peroxide 10%	Good - Minor Effect, slight corrosion or discoloration	Good - Minor Effect, slight corrosion or discoloration
Hydrogen Peroxide 30%	Good - Minor Effect, slight corrosion or discoloration	Good - Minor Effect, slight corrosion or discoloration
Hydrogen Peroxide 50%	Good - Minor Effect, slight corrosion or discoloration	Excellent
Hydrogen Peroxide 100%	Good - Minor Effect, slight corrosion or discoloration	Excellent
Hydrogen Sulfide (aqua)	Fair - Moderate Effect, not recommended for continuous use	Excellent
Hydrogen Sulfide (dry)	Fair - Moderate Effect, not recommended for continuous use	Excellent
Hydroquinone	Good - Minor Effect, slight corrosion or discoloration	Good - Minor Effect, slight corrosion or discoloration
Hydroxyacetic Acid 70%	Information not available at time of Publishing	Information not available at time of Publishing
Ink	Fair - Moderate Effect, not recommended for continuous use	Fair - Moderate Effect, not recommended for continuous use
Iodine	Severe Effect, not recommended for ANY use	Severe Effect, not recommended for ANY use
Iodine (in alcohol)	Information not available at time of Publishing	Information not available at time of Publishing
Iodoform	Excellent	Excellent
Isooctane	Excellent	Excellent
Isopropyl Acetate	Fair - Moderate Effect, not recommended for continuous use	Excellent
Isopropyl Ether	Excellent	Excellent
Isotane	Excellent	Excellent

Chemical	Aluminum	PVC	GALV-ZINC STEEL
Hydrocyanic Acid (Gas 10%)	Information not available at time of Publishing	Excellent	Information not available at time of Publishing
Hydrofluoric Acid 100%	Severe Effect, not recommended for ANY use	Fair - Moderate Effect, not recommended for continuous use	Severe Effect, not recommended for ANY use
Hydrofluoric Acid 20%	Severe Effect, not recommended for ANY use	Severe Effect, not recommended for ANY use	Severe Effect, not recommended for ANY use
Hydrofluoric Acid 50%	Severe Effect, not recommended for ANY use	Information not available at time of Publishing	Severe Effect, not recommended for ANY use
Hydrofluoric Acid 75%	Severe Effect, not recommended for ANY use	Fair - Moderate Effect, not recommended for continuous use	Severe Effect, not recommended for ANY use
Hydrofluosilicic Acid 100%	Severe Effect, not recommended for ANY use	Excellent	Severe Effect, not recommended for ANY use
Hydrofluosilicic Acid 20%	Severe Effect, not recommended for ANY use	Severe Effect, not recommended for ANY use	Severe Effect, not recommended for ANY use
Hydrogen Gas	Excellent	Excellent	Information not available at time of Publishing
Hydrogen Peroxide 10%	Excellent	Excellent	Information not available at time of Publishing
Hydrogen Peroxide 30%	Excellent	Excellent	Information not available at time of Publishing
Hydrogen Peroxide 50%	Excellent	Excellent	Information not available at time of Publishing
Hydrogen Peroxide 100%	Excellent	Excellent	Information not available at time of Publishing
Hydrogen Sulfide (aqua)	Good - Minor Effect, slight corrosion or discoloration	Excellent	Information not available at time of Publishing
Hydrogen Sulfide (dry)	Good - Minor Effect, slight corrosion or discoloration	Excellent	Information not available at time of Publishing
Hydroquinone	Good - Minor Effect, slight corrosion or discoloration	Information not available at time of Publishing	Information not available at time of Publishing
Hydroxyacetic Acid 70%	Information not available at time of Publishing	Excellent	Information not available at time of Publishing
Ink	Information not available at time of Publishing	Information not available at time of Publishing	Information not available at time of Publishing
Iodine	Excellent	Information not available at time of Publishing	Severe Effect, not recommended for ANY use
Iodine (in alcohol)	Good - Minor Effect, slight corrosion or discoloration	Severe Effect, not recommended for ANY use	Information not available at time of Publishing
Iodoform	Information not available at time of Publishing	Information not available at time of Publishing	Information not available at time of Publishing
Isooctane	Excellent	Fair - Moderate Effect, not recommended for continuous use	Information not available at time of Publishing
Isopropyl Acetate	Severe Effect, not recommended for ANY use	Severe Effect, not recommended for ANY use	Severe Effect, not recommended for ANY use
Isopropyl Ether	Excellent	Information not available at time of Publishing	Severe Effect, not recommended for ANY use
Isotane	Severe Effect, not recommended for ANY use	Information not available at time of Publishing	Information not available at time of Publishing

Ratings

- Excellent
- Good - Minor Effect, slight corrosion or discoloration
- Fair - Moderate Effect, not recommended for continuous use
- Severe Effect, not recommended for ANY use
- Information not available at time of Publishing

CONDUIT ALLOY COMPATABILITY

Chemical	304 Stainless Steel	316 Stainless Steel
Jet Fuel (JP3, JP4, JP5)	Excellent	Excellent
Kerosene	Excellent	Excellent
Ketones	Excellent	Excellent
Lacquer Thinners	Excellent	Excellent
Lacquers	Excellent	Excellent
Lactic Acid	Good	Good
Lard	Excellent	Excellent
Latex	Excellent	Excellent
Lead Acetate	Good	Good
Lead Nitrate	Good	Good
Lead Sulfamate	Fair	Fair
Ligroin	Information not available	Excellent
Lime	Excellent	Excellent
Linoleic Acid	Good	Excellent
Lithium Chloride	Excellent	Excellent
Lithium Hydroxide	Good	Good
Lubricants	Excellent	Excellent
Lye: Ca (OH) ₂ Calcium Hydroxide	Good	Good
Lye: KOH Potassium Hydroxide	Good	Excellent
Lye: NaOH Sodium Hydroxide	Good	Good
Magnesium Bisulfate	Excellent	Excellent
Magnesium Carbonate	Good	Good
Magnesium Chloride	Severe	Severe
Magnesium Hydroxide	Good	Excellent

Chemical	Aluminum	PVC	GALV-ZINC STEEL
Jet Fuel (JP3, JP4, JP5)	Excellent	Fair	Information not available
Kerosene	Excellent	Fair	Good
Ketones	Good	Severe	Good
Lacquer Thinners	Excellent	Fair	Information not available
Lacquers	Excellent	Information not available	Information not available
Lactic Acid	Good	Excellent	Information not available
Lard	Excellent	Excellent	Information not available
Latex	Excellent	Information not available	Excellent
Lead Acetate	Severe	Excellent	Information not available
Lead Nitrate	Severe	Information not available	Severe
Lead Sulfamate	Fair	Information not available	Information not available
Ligroin	Severe	Information not available	Information not available
Lime	Excellent	Excellent	Information not available
Linoleic Acid	Excellent	Information not available	Information not available
Lithium Chloride	Severe	Information not available	Severe
Lithium Hydroxide	Severe	Information not available	Severe
Lubricants	Excellent	Excellent	Excellent
Lye: Ca (OH) ₂ Calcium Hydroxide	Fair	Information not available	Information not available
Lye: KOH Potassium Hydroxide	Severe	Information not available	Information not available
Lye: NaOH Sodium Hydroxide	Severe	Information not available	Information not available
Magnesium Bisulfate	Severe	Information not available	Information not available
Magnesium Carbonate	Excellent	Excellent	Good
Magnesium Chloride	Severe	Excellent	Severe
Magnesium Hydroxide	Fair	Excellent	Good

Ratings

- Excellent
- Good - Minor Effect, slight corrosion or discoloration
- Fair - Moderate Effect, not recommended for continuous use
- Severe Effect, not recommended for ANY use
- Information not available at time of Publishing

CONDUIT ALLOY COMPATABILITY

Chemical	304 Stainless Steel	316 Stainless Steel
Magnesium Nitrate	Good	Good
Magnesium Oxide	Excellent	Excellent
Magnesium Sulfate (Epsom Salts)	Excellent	Good
Maleic Acid	Excellent	Good
Maleic Anhydride	Excellent	Excellent
Malic Acid	Excellent	Excellent
Manganese Sulfate	Good	Good
Mash	Excellent	Excellent
Mayonnaise	Fair	Excellent
Melamine	Information not available	Severe
Mercuric Chloride (dilute)	Severe	Severe
Mercuric Cyanide	Fair	Fair
Mercurous Nitrate	Excellent	Excellent
Mercury	Excellent	Excellent
Methane	Excellent	Excellent
Methanol (Methyl Alcohol)	Excellent	Excellent
Methyl Acetate	Excellent	Good
Methyl Acetone	Excellent	Excellent
Methyl Acrylate	Excellent	Information not available
Methyl Alcohol 10%	Excellent	Excellent
Methyl Bromide	Excellent	Excellent
Methyl Butyl Ketone	Excellent	Excellent
Methyl Cellosolve	Good	Good
Methyl Chloride	Excellent	Excellent

Chemical	Aluminum	PVC	GALV-ZINC STEEL
Magnesium Nitrate	Good	Excellent	Information not available
Magnesium Oxide	Good	Information not available	Good
Magnesium Sulfate (Epsom Salts)	Good	Excellent	Information not available
Maleic Acid	Good	Excellent	Information not available
Maleic Anhydride	Excellent	Excellent	Information not available
Malic Acid	Good	Excellent	Information not available
Manganese Sulfate	Good	Information not available	Fair
Mash	Excellent	Information not available	Information not available
Mayonnaise	Excellent	Information not available	Information not available
Melamine	Information not available	Information not available	Information not available
Mercuric Chloride (dilute)	Severe	Excellent	Severe
Mercuric Cyanide	Severe	Excellent	Information not available
Mercurous Nitrate	Severe	Information not available	Information not available
Mercury	Severe	Information not available	Severe
Methane	Excellent	Information not available	Information not available
Methanol (Methyl Alcohol)	Excellent	Information not available	Information not available
Methyl Acetate	Excellent	Severe	Information not available
Methyl Acetone	Excellent	Information not available	Information not available
Methyl Acrylate	Information not available	Information not available	Information not available
Methyl Alcohol 10%	Excellent	Fair	Information not available
Methyl Bromide	Severe	Severe	Information not available
Methyl Butyl Ketone	Information not available	Information not available	Information not available
Methyl Cellosolve	Good	Information not available	Information not available
Methyl Chloride	Severe	Severe	Severe

Ratings

- Excellent
- Good - Minor Effect, slight corrosion or discoloration
- Fair - Moderate Effect, not recommended for continuous use
- Severe Effect, not recommended for ANY use
- Information not available at time of Publishing

CONDUIT ALLOY COMPATABILITY

Chemical	304 Stainless Steel	316 Stainless Steel
Methyl Dichloride	Information not available at time of Publishing	Information not available at time of Publishing
Methyl Ethyl Ketone	Excellent	Excellent
Methyl Ethyl Ketone Peroxide	Information not available at time of Publishing	Information not available at time of Publishing
Methyl Isobutyl Ketone	Good	Good
Methyl Isopropyl Ketone	Excellent	Excellent
Methyl Methacrylate	Good	Good
Methylamine	Excellent	Excellent
Methylene Chloride	Good	Good
Milk	Excellent	Excellent
Mineral Spirits	Excellent	Excellent
Molasses	Excellent	Excellent
Monochloroacetic Acid	Excellent	Excellent
Monoethanolamine	Excellent	Excellent
Morpholine	Information not available at time of Publishing	Excellent
Motor Oil	Excellent	Excellent
Mustard	Excellent	Excellent
Naphtha	Excellent	Excellent
Naphthalene	Excellent	Excellent
Natural Gas	Excellent	Excellent
Nickel Chloride	Severe Effect, not recommended for ANY use	Fair - Moderate Effect, not recommended for continuous use
Nickel Nitrate	Good	Good
Nickel Sulfate	Good	Good
Nitrating Acid (<15% HNO3)	Fair - Moderate Effect, not recommended for continuous use	Fair - Moderate Effect, not recommended for continuous use
Nitrating Acid (>15% H2SO4)	Fair - Moderate Effect, not recommended for continuous use	Fair - Moderate Effect, not recommended for continuous use

Chemical	Aluminum	PVC	GALV-ZINC STEEL
Methyl Dichloride	Information not available at time of Publishing	Information not available at time of Publishing	Information not available at time of Publishing
Methyl Ethyl Ketone	Good	Severe Effect, not recommended for ANY use	Information not available at time of Publishing
Methyl Ethyl Ketone Peroxide	Information not available at time of Publishing	Information not available at time of Publishing	Information not available at time of Publishing
Methyl Isobutyl Ketone	Good	Severe Effect, not recommended for ANY use	Good
Methyl Isopropyl Ketone	Excellent	Information not available at time of Publishing	Good
Methyl Methacrylate	Information not available at time of Publishing	Information not available at time of Publishing	Information not available at time of Publishing
Methylamine	Excellent	Information not available at time of Publishing	Information not available at time of Publishing
Methylene Chloride	Fair - Moderate Effect, not recommended for continuous use	Severe Effect, not recommended for ANY use	Fair - Moderate Effect, not recommended for continuous use
Milk	Excellent	Excellent	Excellent
Mineral Spirits	Excellent	Excellent	Information not available at time of Publishing
Molasses	Excellent	Excellent	Information not available at time of Publishing
Monochloroacetic Acid	Severe Effect, not recommended for ANY use	Information not available at time of Publishing	Information not available at time of Publishing
Monoethanolamine	Good	Information not available at time of Publishing	Information not available at time of Publishing
Morpholine	Excellent	Information not available at time of Publishing	Information not available at time of Publishing
Motor Oil	Excellent	Information not available at time of Publishing	Excellent
Mustard	Good	Excellent	Information not available at time of Publishing
Naphtha	Excellent	Fair - Moderate Effect, not recommended for continuous use	Information not available at time of Publishing
Naphthalene	Good	Severe Effect, not recommended for ANY use	Information not available at time of Publishing
Natural Gas	Excellent	Information not available at time of Publishing	Information not available at time of Publishing
Nickel Chloride	Severe Effect, not recommended for ANY use	Information not available at time of Publishing	Information not available at time of Publishing
Nickel Nitrate	Severe Effect, not recommended for ANY use	Information not available at time of Publishing	Information not available at time of Publishing
Nickel Sulfate	Severe Effect, not recommended for ANY use	Information not available at time of Publishing	Good
Nitrating Acid (<15% HNO3)	Severe Effect, not recommended for ANY use	Information not available at time of Publishing	Severe Effect, not recommended for ANY use
Nitrating Acid (>15% H2SO4)	Severe Effect, not recommended for ANY use	Information not available at time of Publishing	Severe Effect, not recommended for ANY use

Ratings

- Excellent
- Good - Minor Effect, slight corrosion or discoloration
- Fair - Moderate Effect, not recommended for continuous use
- Severe Effect, not recommended for ANY use
- Information not available at time of Publishing

CONDUIT ALLOY COMPATABILITY

Chemical	304 Stainless Steel	316 Stainless Steel
Nitrating Acid (S1% Acid)	Orange	Green
Nitrating Acid (S15% H2SO4)	Orange	Orange
Nitric Acid (Concentrated)	Green	Green
Nitric Acid (20%)	Green	Green
Nitric Acid (50%)	Green	Green
Nitric Acid (5-10%)	Green	Green
Nitrobenzene	Yellow	Yellow
Nitrogen Fertilizer	Black	Black
Nitromethane	Green	Green
Nitrous Acid	Yellow	Yellow
Nitrous Oxide	Yellow	Yellow
Oils:Aniline	Green	Green
Oils:Anise	Black	Green
Oils: Bay	Black	Green
Oils:Bone	Black	Green
Oils:Castor	Green	Green
Oils:Cinnamon	Green	Green
Oils:Citric	Green	Green
Oils:Clove	Green	Green
Oils:Coconut	Green	Green
Oils:Cod Liver	Green	Green
Oils:Corn	Green	Green
Oils:Cottonseed	Green	Green
Oils:Creosote	Yellow	Yellow

Chemical	Aluminum	PVC	GALV-ZINC STEEL
Nitrating Acid (S1% Acid)	Red	Black	Black
Nitrating Acid (S15% H2SO4)	Red	Black	Red
Nitric Acid (Concentrated)	Red	Yellow	Red
Nitric Acid (20%)	Yellow	Yellow	Red
Nitric Acid (50%)	Yellow	Yellow	Red
Nitric Acid (5-10%)	Green	Yellow	Red
Nitrobenzene	Yellow	Red	Black
Nitrogen Fertilizer	Black	Black	Black
Nitromethane	Green	Black	Black
Nitrous Acid	Red	Black	Black
Nitrous Oxide	Yellow	Black	Black
Oils:Aniline	Red	Red	Black
Oils:Anise	Black	Black	Black
Oils: Bay	Black	Black	Black
Oils:Bone	Black	Black	Black
Oils:Castor	Green	Green	Green
Oils:Cinnamon	Black	Black	Black
Oils:Citric	Green	Black	Black
Oils:Clove	Yellow	Black	Black
Oils:Coconut	Green	Black	Black
Oils:Cod Liver	Green	Black	Black
Oils:Corn	Green	Black	Black
Oils:Cottonseed	Green	Green	Black
Oils:Creosote	Yellow	Black	Black

Ratings

- Excellent
- Good - Minor Effect, slight corrosion or discoloration
- Fair - Moderate Effect, not recommended for continuous use
- Severe Effect, not recommended for ANY use
- Information not available at time of Publishing

CONDUIT ALLOY COMPATABILITY

Chemical	304 Stainless Steel	316 Stainless Steel
Oils:Diesel Fuel (20, 30, 40, 50)	Excellent	Excellent
Oils:Fuel (1, 2, 3, 5A, 5B, 6)	Excellent	Excellent
Oils:Ginger	Severe Effect	Severe Effect
Oils:Hydraulic Oil (Petro)	Excellent	Excellent
Oils:Hydraulic Oil (Synthetic)	Excellent	Excellent
Oils:Lemon	Excellent	Excellent
Oils:Linseed	Excellent	Excellent
Oils:Mineral	Excellent	Excellent
Oils:Olive	Excellent	Excellent
Oils:Orange	Excellent	Excellent
Oils:Palm	Excellent	Excellent
Oils:Peanut	Excellent	Excellent
Oils:Peppermint	Excellent	Excellent
Oils:Pine	Excellent	Excellent
Oils:Rapeseed	Excellent	Excellent
Oils:Rosin	Excellent	Excellent
Oils:Sesame Seed	Excellent	Excellent
Oils:Silicone	Excellent	Excellent
Oils:Soybean	Excellent	Excellent
Oils:Sperm (whale)	Excellent	Excellent
Oils:Tanning	Excellent	Excellent
Oils:Transformer	Excellent	Excellent
Oils:Turbine	Excellent	Excellent
Oleic Acid	Excellent	Excellent

Chemical	Aluminum	PVC	GALV-ZINC STEEL
Oils:Diesel Fuel (20, 30, 40, 50)	Excellent	Information not available	Information not available
Oils:Fuel (1, 2, 3, 5A, 5B, 6)	Fair	Excellent	Information not available
Oils:Ginger	Information not available	Information not available	Information not available
Oils:Hydraulic Oil (Petro)	Excellent	Information not available	Excellent
Oils:Hydraulic Oil (Synthetic)	Excellent	Information not available	Excellent
Oils:Lemon	Excellent	Information not available	Excellent
Oils:Linseed	Good	Information not available	Excellent
Oils:Mineral	Excellent	Excellent	Information not available
Oils:Olive	Excellent	Excellent	Information not available
Oils:Orange	Excellent	Information not available	Information not available
Oils:Palm	Information not available	Excellent	Excellent
Oils:Peanut	Excellent	Excellent	Excellent
Oils:Peppermint	Severe Effect	Information not available	Information not available
Oils:Pine	Excellent	Excellent	Information not available
Oils:Rapeseed	Information not available	Excellent	Information not available
Oils:Rosin	Good	Information not available	Information not available
Oils:Sesame Seed	Information not available	Excellent	Excellent
Oils:Silicone	Excellent	Information not available	Excellent
Oils:Soybean	Excellent	Excellent	Excellent
Oils:Sperm (whale)	Information not available	Excellent	Excellent
Oils:Tanning	Information not available	Information not available	Excellent
Oils:Transformer	Excellent	Information not available	Excellent
Oils:Turbine	Excellent	Excellent	Information not available
Oleic Acid	Excellent	Excellent	Information not available

Ratings

- Excellent
- Good - Minor Effect, slight corrosion or discoloration
- Fair - Moderate Effect, not recommended for continuous use
- Severe Effect, not recommended for ANY use
- Information not available at time of Publishing

CONDUIT ALLOY COMPATABILITY

Chemical	304 Stainless Steel	316 Stainless Steel
Oleum 25%	Good	Good
Oleum 100%	Excellent	Excellent
Oxalic Acid (cold)	Good	Excellent
Ozone	Good	Excellent
Palmitic Acid	Good	Excellent
Paraffin	Excellent	Excellent
Pentane	Fair	Fair
Perchloric Acid	Fair	Fair
Perchloroethylene	Good	Excellent
Petrolatum	Excellent	Excellent
Petroleum	Excellent	Excellent
Phenol (10%)	Good	Good
Phenol (Carbolic Acid)	Good	Good
Phosphoric Acid (>40%)	Severe	Severe
Phosphoric Acid (crude)	Severe	Good
Phosphoric Acid (molten)	Information not available	Information not available
Phosphoric Acid (S40%)	Severe	Fair
Phosphoric Acid Anhydride	Information not available	Information not available
Phosphorus	Excellent	Excellent
Phosphorus Trichloride	Excellent	Excellent
Photographic Developer	Excellent	Excellent
Photographic Solutions	Severe	Information not available
Phthalic Acid	Good	Excellent

Chemical	Aluminum	PVC	GALV-ZINC STEEL
Oleum 25%	Good	Information not available	Information not available
Oleum 100%	Good	Severe	Information not available
Oxalic Acid (cold)	Excellent	Excellent	Information not available
Ozone	Good	Information not available	Information not available
Palmitic Acid	Good	Information not available	Information not available
Paraffin	Excellent	Excellent	Excellent
Pentane	Good	Fair	Excellent
Perchloric Acid	Severe	Information not available	Fair
Perchloroethylene	Fair	Severe	Information not available
Petrolatum	Information not available	Information not available	Information not available
Petroleum	Severe	Fair	Information not available
Phenol (10%)	Excellent	Excellent	Information not available
Phenol (Carbolic Acid)	Excellent	Good	Information not available
Phosphoric Acid (>40%)	Fair	Information not available	Information not available
Phosphoric Acid (crude)	Fair	Excellent	Information not available
Phosphoric Acid (molten)	Information not available	Information not available	Information not available
Phosphoric Acid (S40%)	Fair	Severe	Information not available
Phosphoric Acid Anhydride	Fair	Severe	Information not available
Phosphorus	Good	Information not available	Information not available
Phosphorus Trichloride	Severe	Information not available	Information not available
Photographic Developer	Information not available	Information not available	Information not available
Photographic Solutions	Information not available	Information not available	Information not available
Phthalic Acid	Good	Information not available	Information not available

Ratings

- Excellent
- Good - Minor Effect, slight corrosion or discoloration
- Fair - Moderate Effect, not recommended for continuous use
- Severe Effect, not recommended for ANY use
- Information not available at time of Publishing

CONDUIT ALLOY COMPATABILITY

Chemical	304 Stainless Steel	316 Stainless Steel
Phthalic Anhydride		
Picric Acid		
Plating Solutions, Antimony Plating 130°F		
Plating Solutions, Arsenic Plating 110°F		
Plating Solutions, Brass Plating: High-Speed Brass Bath 110°F		
Plating Solutions, Brass Plating: Regular Brass Bath 100°F		
Plating Solutions, Bronze Plating: Cu-Cd Bronze Bath R.T.		
Plating Solutions, Bronze Plating: Cu-Sn Bronze Bath 160°F		
Plating Solutions, Bronze Plating: Cu-Zn Bronze Bath 100°F		
Plating Solutions, Cadmium Plating: Cyanide Bath 90°F		
Plating Solutions, Cadmium Plating: Fluoborate Bath 100°F		
Plating Solutions, Chromium Plating: Barrel Chrome Bath 95°F		

Chemical	Aluminum	PVC	GALV-ZINC STEEL
Phthalic Anhydride			
Picric Acid			
Plating Solutions, Antimony Plating 130°F			
Plating Solutions, Arsenic Plating 110°F			
Plating Solutions, Brass Plating: High-Speed Brass Bath 110°F			
Plating Solutions, Brass Plating: Regular Brass Bath 100°F			
Plating Solutions, Bronze Plating: Cu-Cd Bronze Bath R.T.			
Plating Solutions, Bronze Plating: Cu-Sn Bronze Bath 160°F			
Plating Solutions, Bronze Plating: Cu-Zn Bronze Bath 100°F			
Plating Solutions, Cadmium Plating: Cyanide Bath 90°F			
Plating Solutions, Cadmium Plating: Fluoborate Bath 100°F			
Plating Solutions, Chromium Plating: Barrel Chrome Bath 95°F			

Ratings

- Excellent
- Good - Minor Effect, slight corrosion or discoloration
- Fair - Moderate Effect, not recommended for continuous use
- Severe Effect, not recommended for ANY use
- Information not available at time of Publishing

CONDUIT ALLOY COMPATABILITY

Chemical	304 Stainless Steel	316 Stainless Steel
Plating Solutions, Chromium Plating: Black Chrome Bath 115°F		
Plating Solutions, Chromium Plating: Chromic-Sulfuric Bath 130°F		
Plating Solutions, Chromium Plating: Fluoride Bath 130°F		
Plating Solutions, Chromium Plating: Fluosilicate Bath 95°F		
Plating Solutions, Copper Plating (Acid): Copper Fluoborate Bath 120°F		
Plating Solutions, Copper Plating (Acid): Copper Sulfate Bath R.T.		
Plating Solutions, Copper Plating (Cyanide): Copper Strike Bath 120°F		
Plating Solutions, Copper Plating (Cyanide): High-Speed Bath 180°F		
Plating Solutions, Copper Plating (Cyanide): Rochelle Salt Bath 150°F		
Plating Solutions, Copper Plating (Misc): Copper (Electroless)		

Chemical	Aluminum	PVC	GALV-ZINC STEEL
Plating Solutions, Chromium Plating: Black Chrome Bath 115°F			
Plating Solutions, Chromium Plating: Chromic-Sulfuric Bath 130°F			
Plating Solutions, Chromium Plating: Fluoride Bath 130°F			
Plating Solutions, Chromium Plating: Fluosilicate Bath 95°F			
Plating Solutions, Copper Plating (Acid): Copper Fluoborate Bath 120°F			
Plating Solutions, Copper Plating (Acid): Copper Sulfate Bath R.T.			
Plating Solutions, Copper Plating (Cyanide): Copper Strike Bath 120°F			
Plating Solutions, Copper Plating (Cyanide): High-Speed Bath 180°F			
Plating Solutions, Copper Plating (Cyanide): Rochelle Salt Bath 150°F			
Plating Solutions, Copper Plating (Misc): Copper (Electroless)			

Ratings

- Excellent
- Good - Minor Effect, slight corrosion or discoloration
- Fair - Moderate Effect, not recommended for continuous use
- Severe Effect, not recommended for ANY use
- Information not available at time of Publishing

CONDUIT ALLOY COMPATABILITY

Chemical	304 Stainless Steel	316 Stainless Steel
Plating Solutions, Copper Plating (Misc): Copper Pyrophosphate		
Plating Solutions, Gold Plating: Acid 75°F		
Plating Solutions, Gold Plating: Cyanide 150°F		
Plating Solutions, Gold Plating: Neutral 75°F		
Plating Solutions, Indium Sulfamate Plating R.T.		
Plating Solutions, Iron Plating: Ferrous Am Sulfate Bath 150°F		
Plating Solutions, Iron Plating: Ferrous Chloride Bath 190°F		
Plating Solutions, Iron Plating: Ferrous Sulfate Bath 150°F		
Plating Solutions, Iron Plating: Fluoborate Bath 145°F		
Plating Solutions, Iron Plating: Sulfamate 140°F		
Plating Solutions, Iron Plating: Sulfate-Chloride Bath 160°F		

Chemical	Aluminum	PVC	GALV-ZINC STEEL
Plating Solutions, Copper Plating (Misc): Copper Pyrophosphate			
Plating Solutions, Gold Plating: Acid 75°F			
Plating Solutions, Gold Plating: Cyanide 150°F			
Plating Solutions, Gold Plating: Neutral 75°F			
Plating Solutions, Indium Sulfamate Plating R.T.			
Plating Solutions, Iron Plating: Ferrous Am Sulfate Bath 150°F			
Plating Solutions, Iron Plating: Ferrous Chloride Bath 190°F			
Plating Solutions, Iron Plating: Ferrous Sulfate Bath 150°F			
Plating Solutions, Iron Plating: Fluoborate Bath 145°F			
Plating Solutions, Iron Plating: Sulfamate 140°F			
Plating Solutions, Iron Plating: Sulfate-Chloride Bath 160°F			

Ratings

- Excellent
- Good - Minor Effect, slight corrosion or discoloration
- Fair - Moderate Effect, not recommended for continuous use
- Severe Effect, not recommended for ANY use
- Information not available at time of Publishing

CONDUIT ALLOY COMPATABILITY

Chemical	304 Stainless Steel	316 Stainless Steel
Plating Solutions, Lead Fluoborate Plating		
Plating Solutions, Nickel Plating: Electroless 200°F		
Plating Solutions, Nickel Plating: Fluoborate 100-170°F		
Plating Solutions, Nickel Plating: High-Chloride 130-160°F		
Plating Solutions, Nickel Plating: Sulfamate 100-140°F		
Plating Solutions, Nickel Plating: Watts Type 115-160°F		
Plating Solutions, Rhodium Plating 120°F		
Plating Solutions, Silver Plating 80-120°F		
Plating Solutions, Tin-Fluoborate Plating 100°F		
Plating Solutions, Tin-Lead Plating 100°F		
Plating Solutions, Zinc Plating: Acid Chloride 140°F		

Chemical	Aluminum	PVC	GALV-ZINC STEEL
Plating Solutions, Lead Fluoborate Plating			
Plating Solutions, Nickel Plating: Electroless 200°F			
Plating Solutions, Nickel Plating: Fluoborate 100-170°F			
Plating Solutions, Nickel Plating: High-Chloride 130-160°F			
Plating Solutions, Nickel Plating: Sulfamate 100-140°F			
Plating Solutions, Nickel Plating: Watts Type 115-160°F			
Plating Solutions, Rhodium Plating 120°F			
Plating Solutions, Silver Plating 80-120°F			
Plating Solutions, Tin-Fluoborate Plating 100°F			
Plating Solutions, Tin-Lead Plating 100°F			
Plating Solutions, Zinc Plating: Acid Chloride 140°F			

Ratings

- Excellent
- Good - Minor Effect, slight corrosion or discoloration
- Fair - Moderate Effect, not recommended for continuous use
- Severe Effect, not recommended for ANY use
- Information not available at time of Publishing

CONDUIT ALLOY COMPATABILITY

Chemical	304 Stainless Steel	316 Stainless Steel
Plating Solutions, Zinc Plating: Acid Fluoborate Bath R.T.		
Plating Solutions, Zinc Plating: Acid Sulfate Bath 150°F		
Plating Solutions, Zinc Plating: Alkaline Cyanide Bath R.T.		
Potash (Potassium Carbonate)		
Potassium Bicarbonate		
Potassium Bromide		
Potassium Chlorate		
Potassium Chloride		
Potassium Chromate		
Potassium Cyanide Solutions		
Potassium Dichromate		
Potassium Ferricyanide		
Potassium Ferrocyanide		
Potassium Hydroxide (Caustic Potash)		
Potassium Hypochlorite		
Potassium Iodide		
Potassium Nitrate		
Potassium Oxalate		

Chemical	Aluminum	PVC	GALV-ZINC STEEL
Plating Solutions, Zinc Plating: Acid Fluoborate Bath R.T.			
Plating Solutions, Zinc Plating: Acid Sulfate Bath 150°F			
Plating Solutions, Zinc Plating: Alkaline Cyanide Bath R.T.			
Potash (Potassium Carbonate)			
Potassium Bicarbonate			
Potassium Bromide			
Potassium Chlorate			
Potassium Chloride			
Potassium Chromate			
Potassium Cyanide Solutions			
Potassium Dichromate			
Potassium Ferricyanide			
Potassium Ferrocyanide			
Potassium Hydroxide (Caustic Potash)			
Potassium Hypochlorite			
Potassium Iodide			
Potassium Nitrate			
Potassium Oxalate			

Ratings

- Excellent
- Good - Minor Effect, slight corrosion or discoloration
- Fair - Moderate Effect, not recommended for continuous use
- Severe Effect, not recommended for ANY use
- Information not available at time of Publishing

CONDUIT ALLOY COMPATABILITY

Chemical	304 Stainless Steel	316 Stainless Steel
Potassium Permanganate	Good	Good
Potassium Sulfate	Good	Excellent
Potassium Sulfide	Good	Good
Propane (liquified)	Excellent	Excellent
Propylene	Good	Excellent
Propylene Glycol	Good	Good
Pyridine	Excellent	Excellent
Pyrogallic Acid	Good	Good
Resorcinal	Information not available	Information not available
Rosins	Excellent	Excellent
Rum	Excellent	Excellent
Rust Inhibitors	Excellent	Excellent
Salad Dressings	Excellent	Excellent
Salicylic Acid	Good	Good
Salt Brine (NaCl saturated)	Good	Excellent
Sea Water	Fair	Fair
Shellac (Bleached)	Excellent	Excellent
Shellac (Orange)	Excellent	Excellent
Silicone	Excellent	Excellent
Silver Bromide	Severe	Severe
Silver Nitrate	Good	Good
Soap Solutions	Excellent	Excellent
Soda Ash (see Sodium Carbonate)	Excellent	Excellent
Sodium Acetate	Good	Good

Chemical	Aluminum	PVC	GALV-ZINC STEEL
Potassium Permanganate	Good	Excellent	Information not available
Potassium Sulfate	Fair	Excellent	Fair
Potassium Sulfide	Severe	Excellent	Severe
Propane (liquified)	Excellent	Severe	Information not available
Propylene	Excellent	Information not available	Information not available
Propylene Glycol	Good	Information not available	Information not available
Pyridine	Good	Information not available	Information not available
Pyrogallic Acid	Good	Excellent	Information not available
Resorcinal	Information not available	Information not available	Information not available
Rosins	Good	Information not available	Information not available
Rum	Information not available	Excellent	Information not available
Rust Inhibitors	Information not available	Information not available	Information not available
Salad Dressings	Good	Excellent	Information not available
Salicylic Acid	Good	Information not available	Information not available
Salt Brine (NaCl saturated)	Good	Information not available	Information not available
Sea Water	Good	Excellent	Information not available
Shellac (Bleached)	Excellent	Information not available	Excellent
Shellac (Orange)	Excellent	Information not available	Excellent
Silicone	Excellent	Information not available	Good
Silver Bromide	Severe	Information not available	Severe
Silver Nitrate	Severe	Excellent	Severe
Soap Solutions	Fair	Good	Good
Soda Ash (see Sodium Carbonate)	Severe	Information not available	Information not available
Sodium Acetate	Good	Information not available	Good

Ratings

- Excellent
- Good - Minor Effect, slight corrosion or discoloration
- Fair - Moderate Effect, not recommended for continuous use
- Severe Effect, not recommended for ANY use
- Information not available at time of Publishing

CONDUIT ALLOY COMPATABILITY

Chemical	304 Stainless Steel	316 Stainless Steel
Sodium Aluminate	Excellent	Excellent
Sodium Benzoate	Information not available	Information not available
Sodium Bicarbonate	Excellent	Excellent
Sodium Bisulfate	Severe Effect	Fair
Sodium Bisulfite	Good	Good
Sodium Borate (Borax)	Good	Good
Sodium Bromide	Fair	Fair
Sodium Carbonate	Excellent	Excellent
Sodium Chlorate	Excellent	Good
Sodium Chloride	Good	Good
Sodium Chromate	Good	Good
Sodium Cyanide	Excellent	Good
Sodium Ferrocyanide	Good	Good
Sodium Fluoride	Severe Effect	Severe Effect
Sodium Hydrosulfite	Information not available	Information not available
Sodium Hydroxide (20%)	Good	Good
Sodium Hydroxide (50%)	Good	Good
Sodium Hydroxide (80%)	Fair	Good
Sodium Hypochlorite (<20%)	Fair	Fair
Sodium Hypochlorite (100%)	Severe Effect	Severe Effect
Sodium Hyposulfate	Excellent	Excellent
Sodium Metaphosphate	Excellent	Excellent

Chemical	Aluminum	PVC	GALV-ZINC STEEL
Sodium Aluminate	Information not available	Information not available	Information not available
Sodium Benzoate	Excellent	Information not available	Good
Sodium Bicarbonate	Severe Effect	Excellent	Severe Effect
Sodium Bisulfate	Severe Effect	Excellent	Severe Effect
Sodium Bisulfite	Severe Effect	Information not available	Severe Effect
Sodium Borate (Borax)	Fair	Fair	Good
Sodium Bromide	Severe Effect	Information not available	Severe Effect
Sodium Carbonate	Severe Effect	Excellent	Good
Sodium Chlorate	Fair	Excellent	Good
Sodium Chloride	Fair	Excellent	Fair
Sodium Chromate	Good	Information not available	Information not available
Sodium Cyanide	Severe Effect	Excellent	Information not available
Sodium Ferrocyanide	Excellent	Information not available	Information not available
Sodium Fluoride	Good	Severe Effect	Information not available
Sodium Hydrosulfite	Excellent	Fair	Information not available
Sodium Hydroxide (20%)	Severe Effect	Excellent	Severe Effect
Sodium Hydroxide (50%)	Severe Effect	Excellent	Severe Effect
Sodium Hydroxide (80%)	Severe Effect	Excellent	Severe Effect
Sodium Hypochlorite (<20%)	Severe Effect	Excellent	Fair
Sodium Hypochlorite (100%)	Severe Effect	Excellent	Severe Effect
Sodium Hyposulfate	Severe Effect	Information not available	Information not available
Sodium Metaphosphate	Fair	Information not available	Information not available

Ratings

- Excellent
- Good - Minor Effect, slight corrosion or discoloration
- Fair - Moderate Effect, not recommended for continuous use
- Severe Effect, not recommended for ANY use
- Information not available at time of Publishing

CONDUIT ALLOY COMPATABILITY

Chemical	304 Stainless Steel	316 Stainless Steel
Sodium Metasilicate	Excellent	Excellent
Sodium Nitrate	Good	Good
Sodium Perborate	Good	Good
Sodium Peroxide	Excellent	Excellent
Sodium Polyphosphate	Good	Good
Sodium Silicate	Excellent	Good
Sodium Sulfate	Good	Good
Sodium Sulfide	Good	Severe
Sodium Sulfite	Good	Excellent
Sodium Tetraborate	Excellent	Excellent
Sodium Thiosulfate (hypo)	Excellent	Good
Sorghum	Excellent	Excellent
Soy Sauce	Excellent	Excellent
Stannic Chloride	Severe	Severe
Stannic Fluoborate	Information not available	Excellent
Stannous Chloride	Fair	Excellent
Starch	Excellent	Excellent
Stearic Acid	Good	Excellent
Stoddard Solvent	Excellent	Excellent
Styrene	Excellent	Excellent
Sugar (Liquids)	Excellent	Excellent
Sulfate (Liquors)	Good	Good
Sulfur Chloride	Severe	Severe
Sulfur Dioxide	Severe	Excellent
Sulfur Dioxide (dry)	Severe	Excellent
Sulfur Hexafluoride	Information not available	Information not available

Chemical	Aluminum	PVC	GALV-ZINC STEEL
Sodium Metasilicate	Severe	Information not available	Information not available
Sodium Nitrate	Good	Excellent	Fair
Sodium Perborate	Fair	Information not available	Good
Sodium Peroxide	Fair	Excellent	Information not available
Sodium Polyphosphate	Severe	Information not available	Information not available
Sodium Silicate	Excellent	Excellent	Information not available
Sodium Sulfate	Excellent	Excellent	Good
Sodium Sulfide	Severe	Excellent	Information not available
Sodium Sulfite	Fair	Excellent	Severe
Sodium Tetraborate	Fair	Excellent	Information not available
Sodium Thiosulfate (hypo)	Excellent	Excellent	Information not available
Sorghum	Information not available	Information not available	Information not available
Soy Sauce	Excellent	Information not available	Information not available
Stannic Chloride	Severe	Excellent	Information not available
Stannic Fluoborate	Information not available	Information not available	Information not available
Stannous Chloride	Severe	Excellent	Information not available
Starch	Excellent	Excellent	Excellent
Stearic Acid	Good	Excellent	Information not available
Stoddard Solvent	Excellent	Severe	Excellent
Styrene	Excellent	Severe	Information not available
Sugar (Liquids)	Excellent	Information not available	Information not available
Sulfate (Liquors)	Severe	Information not available	Information not available
Sulfur Chloride	Severe	Excellent	Information not available
Sulfur Dioxide	Good	Severe	Fair
Sulfur Dioxide (dry)	Good	Severe	Good
Sulfur Hexafluoride	Information not available	Information not available	Information not available

Ratings

- Excellent
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- Fair - Moderate Effect, not recommended for continuous use
- Severe Effect, not recommended for ANY use
- Information not available at time of Publishing

CONDUIT ALLOY COMPATABILITY

Chemical	304 Stainless Steel	316 Stainless Steel
Sulfer Trioxide	Excellent	Fair
Sulfer Trioxide (dry)	Severe	Excellent
Sulfuric Acid (<10%)	Severe	Good
Sulfuric Acid (10-75%)	Severe	Fair
Sulfuric Acid (75-100%)	Fair	Fair
Sulfuric Acid (cold concentrated)	Fair	Good
Sulfuric Acid (hot concentrated)	Severe	Fair
Sulfurous Acid	Good	Good
Sulfuryl Chloride	Information not available	Information not available
Tallow	Excellent	Excellent
Tannic Acid	Good	Excellent
Tanning Liquors	Excellent	Excellent
Tartaric Acid	Fair	Fair
Tetrachloroethane	Good	Excellent
Tetrachloroethylene	Information not available	Excellent
Tetrahydrofuran	Excellent	Excellent
Tin Salts	Information not available	Severe
Toluene (Toluol)	Excellent	Excellent
Tomato Juice	Excellent	Excellent
Trichloroacetic Acid	Severe	Fair
Trichloroethane	Good	Good
Trichloroethylene	Good	Good
Trichloropropane	Excellent	Excellent
Tricresylphosphate	Good	Good

Chemical	Aluminum	PVC	GALV-ZINC STEEL
Sulfer Trioxide	Excellent	Information not available	Information not available
Sulfer Trioxide (dry)	Excellent	Information not available	Information not available
Sulfuric Acid (<10%)	Severe	Excellent	Information not available
Sulfuric Acid (10-75%)	Severe	Excellent	Information not available
Sulfuric Acid (75-100%)	Severe	Severe	Information not available
Sulfuric Acid (cold concentrated)	Good	Information not available	Information not available
Sulfuric Acid (hot concentrated)	Severe	Information not available	Information not available
Sulfurous Acid	Good	Good	Information not available
Sulfuryl Chloride	Information not available	Excellent	Information not available
Tallow	Excellent	Information not available	Good
Tannic Acid	Fair	Excellent	Information not available
Tanning Liquors	Excellent	Excellent	Information not available
Tartaric Acid	Good	Excellent	Information not available
Tetrachloroethane	Fair	Severe	Information not available
Tetrachloroethylene	Information not available	Information not available	Information not available
Tetrahydrofuran	Information not available	Severe	Information not available
Tin Salts	Severe	Severe	Information not available
Toluene (Toluol)	Excellent	Severe	Excellent
Tomato Juice	Excellent	Information not available	Information not available
Trichloroacetic Acid	Severe	Information not available	Severe
Trichloroethane	Severe	Severe	Severe
Trichloroethylene	Severe	Severe	Severe
Trichloropropane	Severe	Information not available	Information not available
Tricresylphosphate	Severe	Severe	Information not available

Ratings

- Excellent
- Good - Minor Effect, slight corrosion or discoloration
- Fair - Moderate Effect, not recommended for continuous use
- Severe Effect, not recommended for ANY use
- Information not available at time of Publishing

CONDUIT ALLOY COMPATABILITY

Chemical	304 Stainless Steel	316 Stainless Steel
Triethylamine	Excellent	Excellent
Trisodium Phosphate	Good	Good
Turpentine	Excellent	Excellent
Urea	Good	Good
Uric Acid	Good	Good
Urine	Excellent	Excellent
Varnish	Excellent	Excellent
Vegetable Juice	Excellent	Excellent
Vinegar	Excellent	Excellent
Vinyl Acetate	Good	Good
Vinyl Chloride	Good	Excellent
Water, Acid, Mine	Good	Good
Water, Deionized	Excellent	Excellent
Water, Distilled	Excellent	Excellent
Water, Fresh	Excellent	Excellent
Water, Salt	Good	Good
Weed Killers	Excellent	Excellent
Whey	Excellent	Excellent
Whiskey & Wines	Excellent	Excellent
White Liquor (Pulp Mill)	Excellent	Excellent
White Water(Paper Mill)	Excellent	Excellent
Xylene	Good	Good
Zinc Chloride	Good	Good
Zinc Hydrosulfite	Excellent	Excellent
Zinc Sulfate	Good	Excellent

Chemical	Aluminum	PVC	GALV-ZINC STEEL
Triethylamine	Information not available	Fair	Information not available
Trisodium Phosphate	Severe	Information not available	Information not available
Turpentine	Excellent	Fair	Fair
Urea	Good	Information not available	Information not available
Uric Acid	Severe	Information not available	Information not available
Urine	Good	Excellent	Information not available
Varnish	Excellent	Information not available	Information not available
Vegetable Juice	Severe	Information not available	Information not available
Vinegar	Severe	Excellent	Information not available
Vinyl Acetate	Excellent	Information not available	Information not available
Vinyl Chloride	Good	Severe	Information not available
Water, Acid, Mine	Severe	Excellent	Information not available
Water, Deionized	Excellent	Information not available	Information not available
Water, Distilled	Excellent	Excellent	Good
Water, Fresh	Good	Excellent	Good
Water, Salt	Good	Excellent	Good
Weed Killers	Severe	Information not available	Information not available
Whey	Good	Information not available	Information not available
Whiskey & Wines	Fair	Excellent	Information not available
White Liquor (Pulp Mill)	Good	Excellent	Information not available
White Water(Paper Mill)	Information not available	Information not available	Information not available
Xylene	Excellent	Severe	Good
Zinc Chloride	Severe	Excellent	Severe
Zinc Hydrosulfite	Severe	Information not available	Information not available
Zinc Sulfate	Severe	Fair	Good