

Chemical Compatibility Information

Inline diagphram type check valves, all types of filters, self-sealing check valves, ball type check valves, and spring loaded check valves are all products that can, and typically do, contain multiple types of different materials. The chemical compatibility of the whole product is limited to those chemicals which are compatible with all of the materials present in the product. Pneuline has compiled an extensive list of various chemical compatibility ratings for the different materials that we use to manufacture our products, and have provided a list of chemical compatibility ratings for each specific product based on the materials used in that product.

The rating system is as follows:

- A = Excellent -- The product is fully compatible with the chemical and is recommended for continuous use within the normal operating parameters of the product (temprature, pressure, etc).
- **B = Adequate** -- The chemical causes a minor effect to the product, slight corrosion or discoloration, minor loss in performance or slightly shortened operating lifespan.
- C = Not Ideal -- The chemical has a pronounced effect on the product and will degrade it. Material softening, swelling, loss of strength, corrosion, and discoloration may occur. Use only for limited timespans and replace often.
- **D = Severe Effect** -- The chemical has a severe adverse affect on the product and will likely destroy it. Not reccomended for use.
- N/A = No Data Available -- One or more of the materials in the product has an unknown compatibility with the chemical.



Chemical Substance	Rating	Chemical Substance	Rating
Acetaldehyde	D	Barium Carbonate	С
Acetamide	С	Barium Chloride	Ā
Acetic Acid	A	Barium Hydroxide	Α
Acetic Acid 20%	Α	Barium Nitrate	С
Acetic Acid 80%	В	Barium Sulfate	Α
Acetic Acid, Glacial	В	Beer	Α
Acetic Anhydride	D	Benzaldehyde	D
Acetone	D	Benzene	Α
Acetyl Chloride (dry)	Α	Benzoic Acid	Α
Acetylene	Α	Benzol	Α
Alcohols: Amyl	В	Bromine	Α
Alcohols: Butyl	Α	Butadiene	Α
Alcohols: Ethyl	С	Butane	Α
Alcohols: Isopropyl	Α	Butanol (Butyl Alcohol)	Α
Alcohols: Methyl	D	Buttermilk	Α
Aluminum Chloride 20%	Α	Butyl Amine	D
Aluminum Hydroxide	В	Butyl acetate	D
Aluminum Nitrate	Α	Butyric Acid	В
Aluminum Potassium Sulfate 10%	С	Calcium Bisulfite	В
Aluminum Potassium Sulfate 100%	С	Calcium Carbonate	Α
Aluminum Sulfate	Α	Calcium Hydroxide	
Amines	D	Calcium Hypochlorite	Α
Ammonia 10%	D	Calcium Nitrate	
Ammonia, anhydrous	D	Calcium Sulfate	С
Ammonia, liquid	D	Carbolic Acid (Phenol)	Α
Ammonium Chloride	Α	Carbon Disulfide	С
Ammonium Hydroxide	С	Carbon Tetrachloride	Α
Ammonium Phosphate, Dibasic	D	Carbonic Acid	Α
Ammonium Sulfate	D	Chlorine (dry)	Α
Amyl Acetate	D	Chlorine Water	В
Amyl Alcohol	В	Chlorine, Anhydrous Liquid	N/A
Aniline	С	Chloroacetic Acid	D
Aqua Regia (80% HCl, 20% HNO3)	В	Chlorobenzene (Mono)	Α
Arsenic Acid	Α	Chloroform	Α
Asphalt	Α	Chlorosulfonic Acid	D

The information in this chart has been compiled from several sources and as such Pneuline makes no guarantee as to the accuracy or completeness of the information. This chart is ONLY to be used as a guide in selecting the appropriate product for a particular use case. A product's resistance to chemical exposure will vary based on a variety of factors including: temprature, exposure time, quantity, concentration, and purity of chemicals, presense or absence of catalyzing agents, and pressure. Ratings listed in this chart apply for a limited exposure time (normally 48 hours) and as such Pneuline offers NO warranty (express or implied) that a particular product will perform adequately in a given environment.

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Chemical Substance	Rating	Chemical Substance	Rating
Chocolate Syrup	A	Ferric Sulfate	Α -
Chromic Acid 10%	Α	Ferrous Chloride	N/A
Chromic Acid 30%	Α	Ferrous Sulfate	Ć
Chromic Acid 5%	Α	Fluorine	
Chromic Acid 50%	Α	Fluorosilicic Acid	В
Chromic Acid 80%	В	Formaldehyde 100%	D
Cider	Α	Formaldehyde 40%	D
Citric Acid	Α	Formic Acid	D
Copper Cyanide	Α	Fuel Oils	В
Copper Nitrate	Α	Furfural (Furfuraldehyde)	D
Copper Sulfate (more than 5%)	Α	Gasoline (high-aromatic)	Α
Copper Sulfate 5%	Α	Gasoline, leaded, ref.	Α
Cresols	В	Gasoline, unleaded	Α
Cresylic Acid	В	Glucose	Α
Cyclohexane	Α	Glycerin	Α
Cyclohexanone	D	Heptane	Α
Detergents	Α	Hexane	Α
Dichloroethane	Α	Honey	Α
Diesel Fuel	Α	Hydrochloric Acid 100%	Α
Diethylamine	D	Hydrochloric Acid 20%	
Diethylene Glycol	Α	Hydrochloric Acid 37%	
Dimethyl Aniline	Α	Hydrofluoric Acid 100%	
Dimethyl Formamide	D	Hydrofluoric Acid 20%	
Epsom Salts (Magnesium Sulfate)	Α	Hydrofluoric Acid 50%	C C C
Ethanol	С	Hydrofluoric Acid 75%	С
Ethyl Acetate	D	Hydrogen Peroxide 10%	Α
Ethyl Chloride	Α	Hydrogen Peroxide 100%	A
Ethylene Chloride	В	Hydrogen Peroxide 30%	Α
Ethylene Chlorohydrin	Α	Hydrogen Peroxide 50%	Α
Ethylene Dichloride	Α	Hydrogen Sulfide (aqua)	D
Ethylene Glycol	Α	Isopropyl Acetate	D
Ethylene Oxide	D	Isopropyl Ether	D
Fatty Acids	Α	Jet Fuel (JP3, JP4, JP5)	В
Ferric Chloride	Α	Kerosene	Α
Ferric Nitrate	Α	Ketones	D

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Lacquer Thinners D Nitrobenzene B Lacquers D Nitromethane D Nitromethane D Nitromethane D Olis: Citric Acid B Oils: Citric Acid A Oils: Fuel Oil (1, 2, 3, 5A, 5B, 6) B Lead Sulfamate A Oils: Mineral A Oils: Oilve A Oils: Mineral A Oils: Oilve A Oils: Pine A Oils: Oilve A Oils: Pine A Oils: Oilve A Oils: Pine A Oils: Oilve A Oilve	Chemical Substance	Rating	Chemical Substance	Rating
Lacquers D Nitromethane D Lactic Acid B Oils: Citric A Oils: Fuel Oil (1, 2, 3, 5A, 5B, 6) B Lead Sulfamate A Cubricants A Cuis: Olive A Lye: Ca(OH)2 Calcium Hydroxide A Lye: Ca(OH)2 Calcium Hydroxide D Cozone A Lye: NaOH Sodium Hydroxide C Ragnesium Chloride A Magnesium Chloride A Magnesium Nitrate A Magnesium Nitrate A Mercuric Chloride (dilute) A Mercury A Methyl Alcohol 10% Methyl Alcohol D Photographic Solutions B Methyl Alcohol D Potassium Bromide C Methyl Cellosolve D Potassium Bromide A Methyl Cellosolve D Methyl Chloride A Methyl Ethyl Ketone D Methyl Chloride B Methyl Chloride B Methyl Spirits A Methyl Cellosolve D Methyl Chloride B Methyl Chloride B Methyl Spirits A Methyl Cellosolve D Methyl Chloride B Methyl Spirits A Methyl Cellosolve D Potassium Chloride A Methyl Chloride B Methyl Spirits A Methyl Chloride B Methyl Chloride B Methyl Spirits A Methyl Chloride B Methyl Chloride B Methyl Spirits A Methyl Chloride B Methyl Chloride B Methyl Chloride A Methyl Ethyl Ketone D Potassium Witrate A Methyl Chloride A Methyl Ethyl Ketone D Potassium Witrate A Methyl Chloride A Methyl Ethyl Ketone D Potassium Witrate A Methyl Ethyl Ketone D Potassium Witrate A Methyl Ethyl Ketone D Potassium Witrate A Mineral Spirits A Potassium Sulfate A Mustard B Propane (liquefied) A Mustard A Naphtha A Propylene Glycol C Nickel Chloride A Nickel Sulfate A Nitric Acid (20%) A Silicone A Silicone	Lacquer Thinners	D	Nitrobenzene	В -
Lactic Acid Lard A A Oils: Citric A Card A Cils: Mineral A Cil	· · · · · · · · · · · · · · · · · · ·	D	Nitromethane	D
Lead SulfamateAOils: MineralALubricantsAOils: DilveALye: Ca(OH)2 Calcium HydroxideAOils: PineALye: KOH Potassium HydroxideDOzoneALye: NaOH Sodium HydroxideCParaffinAMagnesium ChlorideAPentaneAMagnesium HydroxideAPentaneAMagnesium NitrateAPhenol (10%)AMagnesium Sulfate (Epsom Salts)APhenol (2arbolic Acid)AMercuric Chloride (dilute)APhosphoric Acid (more than 40%)AMercuryAPhosphoric Acid (crude)AMethyl Alcohol)DPhosphoric Acid (less than 40%)AMethyl AcetateDPhosphoric Acid (less than 40%)AMethyl Alcohol 10%DPhotassium BromideCMethyl Butyl KetoneDPotassium ChlorateCMethyl CellosolveDPotassium ChlorateCMethyl Ethyl KetoneDPotassium ChlorateCMethyl Ethyl KetoneDPotassium DichromateAMethylene ChlorideBPotassium PermanganateCMilkAPotassium PermanganateCMotor oilBPotassium PermanganateCMotor oilBPropane (liquefied)AMustardBProtassium PermanganateCNickel ChlorideAPropane (liquefied)ANickel SulfateASea WaterA<	·	В	Oils: Citric	Α
Lead SulfamateAOils: MineralALubricantsAOils: OilveALye: Ca(OH)2 Calcium HydroxideAOils: PineALye: KOH Potassium HydroxideDOzoneALye: NaOH Sodium HydroxideCParaffinAMagnesium ChlorideAPentaneAMagnesium HydroxideAPentaneAMagnesium NitrateAPhenol (10%)AMagnesium Sulfate (Epsom Salts)APhenol (carbolic Acid)AMercuryAPhosphoric Acid (more than 40%)AMercuryAPhosphoric Acid (crude)AMethyl AlcoholDPhosphoric Acid (less than 40%)AMethyl AcetateDPhotographic SolutionsBMethyl Butyl KetoneDPotassium BromideCMethyl Butyl KetoneDPotassium ChlorateCMethyl CellosolveDPotassium ChlorideAMethyl Ethyl KetoneDPotassium DichromateAMethyl Ethyl KetoneDPotassium DichromateAMethylene ChlorideBPotassium PermanganateCMilkAPotassium PermanganateCMotor oilBPotassium SulfateAMustardBPropane (liquefied)ANaphthaAPropale GlycolCNickel ChlorideAPropale GlycolCNickel SulfateASea WaterANitric Acid (20%)ASilic	Lard	Α	Oils: Fuel Oil (1, 2, 3, 5A, 5B, 6)	В
Lye: Ca(OH)2 Calcium HydroxideAOils: PineALye: KOH Potassium HydroxideDOzoneALye: NaOH Sodium HydroxideCParaffinAMagnesium ChlorideAPentaneAMagnesium HydroxideAPerchloroethyleneAMagnesium NitrateAPhenol (10%)AMagnesium Sulfate (Epsom Salts)APhenol (Carbolic Acid)AMercuric Chloride (dilute)APhosphoric Acid (more than 40%)AMercuryAPhosphoric Acid (less than 40%)AMethanol (Methyl Alcohol)DPhosphoric Acid (less than 40%)AMethyl AcetateDPhotographic SolutionsBMethyl Alcohol 10%DPicric AcidAMethyl Butyl KetoneDPotassium BromideCMethyl CellosolveDPotassium ChlorateCMethyl ChlorideAPotassium DichromateAMethyl Ethyl KetoneDPotassium DichromateAMethylene ChlorideBPotassium Hydroxide (Caustic Potash)DMilkAPotassium SulfateAMineral SpiritsAPotassium SulfateAMustardBPotassium SulfateANaphthaAPropane (liquefied)ANaphthaAPropylene GlycolCNickel ChlorideAPyridineDNickel SulfateASalicylic AcidANickel SulfateASiliconeA <td>Lead Sulfamate</td> <td>Α</td> <td></td> <td>Α</td>	Lead Sulfamate	Α		Α
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Nickel NitrateCSalicylic AcidANickel SulfateASea WaterANitric Acid (20%)ASiliconeA	Naphtha	Α	Propylene Glycol	
Nickel SulfateASea WaterANitric Acid (20%)ASiliconeA	Nickel Chloride	Α	Pyridine	D
Nitric Acid (20%) A Silicone A	Nickel Nitrate	С	Salicylic Acid	Α
	Nickel Sulfate	Α	Sea Water	Α
Nitric Acid (50%) C Silver Nitrate A	Nitric Acid (20%)	Α	Silicone	Α
	Nitric Acid (50%)	C	Silver Nitrate	Α
Nitric Acid (5-10%) A Soap Solutions A	Nitric Acid (5-10%)	Α	Soap Solutions	Α
Nitric Acid (Concentrated) D Soda Ash (see Sodium Carbonate) A	Nitric Acid (Concentrated)	D	Soda Ash (see Sodium Carbonate)	Α

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Chemical Substance	Rating
Sodium Acetate	D
Sodium Bicarbonate	Α
Sodium Bisulfate	Α
Sodium Bisulfite	Α
Sodium Carbonate	Α
Sodium Chlorate	С
Sodium Chloride	Α
Sodium Hydroxide (20%)	В
Sodium Hydroxide (50%)	С
Sodium Hydroxide (80%)	D
Sodium Hypochlorite (less than 20%)	Α
Sodium Peroxide	Α
Sodium Sulfate	Α
Sodium Sulfide	Α
Sodium Thiosulfate (hypo)	Α
Stannic Chloride	Α
Stearic Acid	N/A
Stoddard Solvent	Α
Sulfur Dioxide (dry)	D
Sulfuric Acid (less than 10%)	Α
Sulfuric Acid (10-75%)	С
Tannic Acid	В
Tetrachloroethylene	Α
Tetrahydrofuran	D
Toluene (Toluol)	Α
Tomato Juice	В
Trichloroethane	В
Turpentine	Α
Urea	Α
Vinegar	С
Water, Acid, Mine	В
Water, Distilled	В
Water, Fresh	Α
Water, Salt	Α
VACI- 1-1	Α.

Chemical Substance	Rating
Xylene	Α
Zinc Chloride	Α
Zinc Sulfate	Α

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Whiskey and Wines



Chemical Compatibility Disclaimer

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