



### **DATA SHEET**

## MPVC-2B-BLN21K

**Product Series:** MPVC

Product Type: Inline Check Valve Cleanroom

**Housing Material:** Blue Nylon 21SPF

**Diaphragm Material:** 0.030" Kalrez

Inlet:

Outlet:

Blue Nylon 21SPF

Blue Nylon 21SPF

Blue Nylon 21SPF

203.00°F / 95.00°C

Min Operating Temp: -30.00°F / -34.44°C

**Product SKU:** 001000603

### Physical Properties

Size and Weight: 1.375 Long 0.750 Wide, 2.11g

Max Operating Tensile Stress: 10 lbs

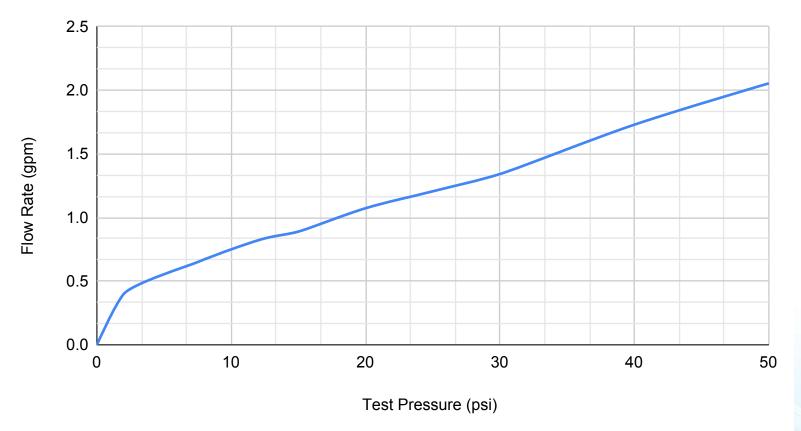
Max Allowable Leak Rate: 0.009 cm^3/sec @ 65 psi (air)

Max Operating Pressure: 65 psi (air)

Cracking Pressure: 0.0 psi (Normally Open)
Required Sealing Back Pressure: Less than 0.1 psi (air)



### Flow Rate (Gpm) vs. Test Pressure (Psi)





### 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.



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



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

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.



Lacquer Thinners A Nitrobenzene B Lacquers A Nitromethane B Lacquers A Nitromethane B Lactic Acid B Oils: Citric Acid A Oils: Fuel Oil (1, 2, 3, 5A, 5B, 6) A Lard A Oils: Fuel Oil (1, 2, 3, 5A, 5B, 6) A Lard A Oils: Fuel Oil (1, 2, 3, 5A, 5B, 6) A Lead Sulfamate B Oils: Mineral A Lubricants A Oils: Pine A Oils: O	<b>Chemical Substance</b>	Rating	<b>Chemical Substance</b>	Rating
Lactic Acid     B     Lactic Acid     B     Clis: Citric     A     Clis: Fuel Oil (1, 2, 3, 5A, 5B, 6)     A     Lead Sulfamate     B     Clis: Mineral     A     Clis: Mineral     A     Clis: Olive     A	Lacquer Thinners	A	Nitrobenzene	В -
Lactic Acid Lard A A Oils: Fuel Oil (1, 2, 3, 5A, 5B, 6) A Lead Sulfamate B Oils: Mineral A Oils: Fuel Oil (1, 2, 3, 5A, 5B, 6) A Lubricants A Lubricants A Lubricants A Lye: Ca(OH)2 Calcium Hydroxide A Lye: KOH Potassium Hydroxide C Ozone D Lye: NaOH Sodium Hydroxide A Magnesium Chloride A Magnesium Nitrate A Magnesium Nitrate A Magnesium Sulfate (Epsom Salts) A Mercuric Chloride (dilute) D Mercuric Chloride (dilute) D Mercury A Methyl Alcohol 10% B Methanol (Methyl Alcohol) B Methyl Acetate A Methyl Acetate A Methyl Alcohol 10% B Methyl Cellosolve C Methyl Butyl Ketone B Methyl Cellosolve C Methyl Butyl Ketone A Methyl Chloride B Methyl Cellosolve C Methyl Suria Methyl Chloride B Methyl Chloride B Methyl Cellosolve C Methyl Suria Methyl Acetone A Methyl Cellosolve C Methyl Suria Methyl Cellosolve A Methyl Cellosolve C Methyl Suria B Methorid A Methyl Cellosolve C Methyl Suria B Methorid A Methyl Cellosolve C Methyl Suria B Methyl Cellosolve C Methyl Chloride B Methyl Cellosolve C Methyl Suria B Methyl Cellosolve C	·	Α	Nitromethane	В
Lead SulfamateBOils: MineralALubricantsAOils: OliveALye: Ca(OH)2 Calcium HydroxideCOzoneDLye: KOH Potassium HydroxideCOzoneDLye: NaOH Sodium HydroxideAParaffinAMagnesium ChlorideAPentaneAMagnesium HydroxideBPerchloroethyleneCMagnesium NitrateAPhenol (10%)DMagnesium Sulfate (Epsom Salts)APhenol (Carbolic Acid)DMercuric Chloride (dilute)DPhosphoric Acid (more than 40%)BMerturyAPhosphoric Acid (crude)BMethanol (Methyl Alcohol)BPhosphoric Acid (less than 40%)BMethyl AcetateAPhosphoric Acid (less than 40%)BMethyl Alcohol 10%BPhosphoric Acid (ess than 40%)BMethyl Sutyl KetoneDPotassium BromideAMethyl EclosolveCPotassium BromideAMethyl ChlorideBPotassium ChlorateCMethyl Ethyl KetoneAPotassium DichromateBMethylene ChlorideCPotassium Hydroxide (Caustic Potash)CMilkAPotassium SulfateAMotor oilAPotassium SulfateAMotor oilAPotassium SulfateAMustardAPropane (liquefied)AA NaphthaAPropane (liquefied)ANickel NitrateASea Water	·		Oils: Citric	Α
Lead SulfamateBOils: MineralALubricantsAOils: OliveALye: Ca(OH)2 Calcium HydroxideCOzoneDLye: KOH Potassium HydroxideCOzoneDLye: NaOH Sodium HydroxideAParaffinAMagnesium ChlorideAPentaneAMagnesium HydroxideBPerchloroethyleneCMagnesium NitrateAPhenol (10%)DMagnesium Sulfate (Epsom Salts)APhenol (Carbolic Acid)DMercuric Chloride (dilute)DPhosphoric Acid (more than 40%)BMerturyAPhosphoric Acid (crude)BMethanol (Methyl Alcohol)BPhosphoric Acid (less than 40%)BMethyl AcetateAPhosphoric Acid (less than 40%)BMethyl Alcohol 10%BPhosphoric Acid (ess than 40%)BMethyl Sutyl KetoneDPotassium BromideAMethyl EclosolveCPotassium BromideAMethyl ChlorideBPotassium ChlorateCMethyl Ethyl KetoneAPotassium DichromateBMethylene ChlorideCPotassium Hydroxide (Caustic Potash)CMilkAPotassium SulfateAMotor oilAPotassium SulfateAMotor oilAPotassium SulfateAMustardAPropane (liquefied)AA NaphthaAPropane (liquefied)ANickel NitrateASea Water	Lard	Α	Oils: Fuel Oil (1, 2, 3, 5A, 5B, 6)	Α
Lye: Ca(OH)2 Calcium HydroxideAOils: PineALye: KOH Potassium HydroxideCOzoneDLye: NaOH Sodium HydroxideAParaffinAMagnesium ChlorideAPentaneAMagnesium HydroxideBPerchloroethyleneCMagnesium NitrateAPhenol (10%)DMagnesium Sulfate (Epsom Salts)APhenol (Carbolic Acid)DMercuric Chloride (dilute)DPhosphoric Acid (more than 40%)BMercuryAPhosphoric Acid (crude)BMethanol (Methyl Alcohol)BPhosphoric Acid (less than 40%)BMethyl AcetateAPhosphoric Acid (less than 40%)BMethyl Alcohol 10%BPhosphoric AcidCMethyl Butyl KetoneDPotassium BromideAMethyl CellosolveCPotassium BromideAMethyl ChlorideBPotassium ChlorateCMethyl ChlorideBPotassium DichromateBMethyl Ethyl KetoneAPotassium DichromateBMethyl Ethyl KetoneAPotassium WitrateBMethyle ChlorideCPotassium PermanganateDMilkAPotassium PermanganateDMotor oilAPotassium PermanganateDMotor oilAPotassium PermanganateAMotor oilAPotassium PermanganateDMotor oilAPotassium PermanganateDMiric Acid (20%)D <td>Lead Sulfamate</td> <td>В</td> <td></td> <td>Α</td>	Lead Sulfamate	В		Α
Lye: KOH Potassium HydroxideCOzoneDLye: NaOH Sodium HydroxideAParaffinAMagnesium ChlorideAPentaneAMagnesium HydroxideBPerchloroethyleneCMagnesium NitrateAPhenol (10%)DMagnesium Sulfate (Epsom Salts)APhenol (Carbolic Acid)DMercuric Chloride (dilute)DPhosphoric Acid (more than 40%)BMercuryAPhosphoric Acid (crude)BMethyl AccataeAPhosphoric Acid (less than 40%)BMethyl Alcohol 10%BPhosphoric Acid (less than 40%)BMethyl Alcohol 10%BPicric AcidCMethyl Butyl KetoneDPotassium BromideAMethyl CellosolveCPotassium ChlorateCMethyl ChlorideBPotassium ChlorateCMethyl Ethyl KetoneAPotassium DichromateBMethylene ChlorideCPotassium Hydroxide (Caustic Potash)CMilkAPotassium NitrateBMineral SpiritsAPotassium PermanganateDMotor oilAPotassium PermanganateDMotor oilAPotassium PermanganateDMixled ChlorideCPyridineCNickel NitrateAPropplene GlycolANickel SulfateASea WaterANitric Acid (50%)DSiliconeANitric Acid (50%)DSiliconeA	Lubricants	Α	Oils: Olive	Α
Lye: NaOH Sodium HydroxideAParaffinAMagnesium ChlorideAPentaneAMagnesium HydroxideBPerchloroethyleneCMagnesium NitrateAPhenol (10%)DMagnesium Sulfate (Epsom Salts)APhenol (Carbolic Acid)DMercuric Chloride (dilute)DPhosphoric Acid (more than 40%)BMercuryAPhosphoric Acid (crude)BMethanol (Methyl Alcohol)BPhosphoric Acid (less than 40%)BMethyl AcetateAPhotographic SolutionsAMethyl Alcohol 10%BPicric AcidCMethyl Butyl KetoneDPotassium BromideAMethyl CellosolveCPotassium ChlorateCMethyl Ethyl KetoneBPotassium ChlorateCMethyl Ethyl KetoneAPotassium DichromateBMethyl Ethyl KetoneAPotassium DichromateBMethyl Ethyl KetoneAPotassium DichromateBMethyl Ethyl KetoneAPotassium NitrateBMethyl Ethyl KetoneAPotassium NitrateBMethyl Ethyl KetoneAPotassium PermanganateDMilkAPotassium PermanganateDMilkAPotassium PermanganateDMotor oilAPotassium PermanganateDMotor oilAPotassium PermanganateAAPropale (liquefied)ANickel ChlorideCPyridineC <td>Lye: Ca(OH)2 Calcium Hydroxide</td> <td>Α</td> <td>Oils: Pine</td> <td>Α</td>	Lye: Ca(OH)2 Calcium Hydroxide	Α	Oils: Pine	Α
Magnesium ChlorideAPentaneAMagnesium HydroxideBPerchloroethyleneCMagnesium NitrateAPhenol (10%)DMagnesium Sulfate (Epsom Salts)APhenol (Carbolic Acid)DMercuric Chloride (dilute)DPhosphoric Acid (more than 40%)BMercuryAPhosphoric Acid (crude)BMethanol (Methyl Alcohol)BPhosphoric Acid (less than 40%)BMethyl AcetateAPhotographic SolutionsAMethyl Alcohol 10%BPicric AcidCMethyl Butyl KetoneDPotassium BromideAMethyl CellosolveCPotassium ChlorateCMethyl Ethyl KetoneAPotassium ChlorateAMethyl Ethyl KetoneAPotassium DichromateBMethylene ChlorideCPotassium Hydroxide (Caustic Potash)CMilkAPotassium PermanganateDMotor oilAPotassium PermanganateDMotor oilAPotassium SulfateAMustardAPropane (liquefied)ANaphthaAPropane (liquefied)ANickel ChlorideCPyridineCNickel ChlorideCPyridineCNickel SulfateASalicylic AcidANitric Acid (20%)DSiliconeANitric Acid (50%)DSilver NitrateANitric Acid (5-10%)DSoap SolutionsA <td>Lye: KOH Potassium Hydroxide</td> <td>С</td> <td>Ozone</td> <td>D</td>	Lye: KOH Potassium Hydroxide	С	Ozone	D
Magnesium HydroxideBPerchloroethyleneCMagnesium NitrateAPhenol (10%)DMagnesium Sulfate (Epsom Salts)APhenol (Carbolic Acid)DMercuric Chloride (dilute)DPhosphoric Acid (more than 40%)BMercuryAPhosphoric Acid (crude)BMethanol (Methyl Alcohol)BPhosphoric Acid (less than 40%)BMethyl AccataeAPhotographic SolutionsAMethyl Alcohol 10%BPicric AcidCMethyl Butyl KetoneDPotassium BromideAMethyl CellosolveCPotassium ChlorateCMethyl Ethyl KetoneAPotassium ChlorideAMethyl Ethyl KetoneAPotassium DichromateBMethylene ChlorideCPotassium Hydroxide (Caustic Potash)CMilkAPotassium PermanganateDMineral SpiritsAPotassium PermanganateDMotor oilAPotassium SulfateAMustardAPropane (liquefied)ANickel ChlorideCPyridineCNickel ChlorideCPyridineCNickel SulfateASea WaterANitric Acid (20%)DSiliconeANitric Acid (50%)DSiliconeANitric Acid (5-10%)DSoap SolutionsA	Lye: NaOH Sodium Hydroxide	Α	Paraffin	Α
Magnesium NitrateAPhenol (10%)DMagnesium Sulfate (Epsom Salts)APhenol (Carbolic Acid)DMercuric Chloride (dilute)DPhosphoric Acid (more than 40%)BMercuryAPhosphoric Acid (crude)BMethanol (Methyl Alcohol)BPhosphoric Acid (less than 40%)BMethyl AcetateAPhotographic SolutionsAMethyl Alcohol 10%BPicric AcidCMethyl Butyl KetoneDPotassium BromideAMethyl CellosolveCPotassium ChlorateCMethyl ChlorideBPotassium ChlorateAMethyl Ethyl KetoneAPotassium DichromateBMethylene ChlorideCPotassium Hydroxide (Caustic Potash)CMilkAPotassium PermanganateDMilkAPotassium PermanganateDMotor oilAPotassium SulfateAMustardAPotassium SulfateANaphthaAPropane (liquefied)ANickel ChlorideCPyridineCNickel NitrateASalicylic AcidANickel SulfateASea WaterANitric Acid (20%)DSiliconeANitric Acid (50%)DSiliconeANitric Acid (5-10%)DSoap SolutionsA	Magnesium Chloride	Α	Pentane	Α
Magnesium Sulfate (Epsom Salts)APhenol (Carbolic Acid)DMercuric Chloride (dilute)DPhosphoric Acid (more than 40%)BMercuryAPhosphoric Acid (crude)BMethanol (Methyl Alcohol)BPhosphoric Acid (less than 40%)BMethyl AcetateAPhotographic SolutionsAMethyl Alcohol 10%BPicric AcidCMethyl Butyl KetoneDPotassium BromideAMethyl CellosolveCPotassium ChlorateCMethyl Ethyl KetoneBPotassium DichromateBMethyl Ethyl KetoneAPotassium DichromateBMethylene ChlorideCPotassium Hydroxide (Caustic Potash)CMilkAPotassium NitrateBMineral SpiritsAPotassium SulfateAMotor oilAPotassium SulfateAMotor oilAPropane (liquefied)ANaphthaAPropylene GlycolANickel ChlorideCPyridineCNickel SulfateASalicylic AcidANickel SulfateASea WaterANitric Acid (20%)DSiliconeANitric Acid (50%)DSiliconeANitric Acid (5-10%)DSoap SolutionsA	Magnesium Hydroxide	В	Perchloroethylene	С
Mercuric Chloride (dilute)DPhosphoric Acid (more than 40%)BMercuryAPhosphoric Acid (crude)BMethanol (Methyl Alcohol)BPhosphoric Acid (less than 40%)BMethyl AcetateAPhotographic SolutionsAMethyl Alcohol 10%BPicric AcidCMethyl Butyl KetoneDPotassium BromideAMethyl CellosolveCPotassium ChlorateCMethyl Ethyl KetoneBPotassium ChlorideAMethyl Ethyl KetoneAPotassium DichromateBMethylene ChlorideCPotassium Hydroxide (Caustic Potash)CMilkAPotassium NitrateBMineral SpiritsAPotassium PermanganateDMotor oilAPotassium SulfateAMustardAPotassium SulfateANaphthaAPropane (liquefied)ANaphthaAPropylene GlycolANickel ChlorideCPyridineCNickel SulfateASalicylic AcidANitric Acid (20%)DSiliconeANitric Acid (50%)DSiliconeANitric Acid (50%)DSilver NitrateANitric Acid (5-10%)DSoap SolutionsA	Magnesium Nitrate	Α	Phenol (10%)	D
MercuryAPhosphoric Acid (crude)BMethanol (Methyl Alcohol)BPhosphoric Acid (less than 40%)BMethyl AcetateAPhotographic SolutionsAMethyl Alcohol 10%BPicric AcidCMethyl Butyl KetoneDPotassium BromideAMethyl CellosolveCPotassium ChlorateCMethyl ChlorideBPotassium ChlorideAMethyl Ethyl KetoneAPotassium DichromateBMethylene ChlorideCPotassium Hydroxide (Caustic Potash)CMilkAPotassium NitrateBMineral SpiritsAPotassium PermanganateDMotor oilAPotassium PermanganateDMustardAPropane (liquefied)ANaphthaAPropplene GlycolANickel ChlorideCPyridineCNickel SulfateASalicylic AcidANickel SulfateASea WaterANitric Acid (20%)DSiliconeANitric Acid (50%)DSilver NitrateANitric Acid (5-10%)DSoap SolutionsA	Magnesium Sulfate (Epsom Salts)	Α	Phenol (Carbolic Acid)	D
MercuryAPhosphoric Acid (crude)BMethanol (Methyl Alcohol)BPhosphoric Acid (less than 40%)BMethyl AcetateAPhotographic SolutionsAMethyl Alcohol 10%BPicric AcidCMethyl Butyl KetoneDPotassium BromideAMethyl CellosolveCPotassium ChlorateCMethyl ChlorideBPotassium ChlorideAMethyl Ethyl KetoneAPotassium DichromateBMethylene ChlorideCPotassium Hydroxide (Caustic Potash)CMilkAPotassium NitrateBMineral SpiritsAPotassium PermanganateDMotor oilAPotassium PermanganateDMustardAPropane (liquefied)ANaphthaAPropplene GlycolANickel ChlorideCPyridineCNickel SulfateASalicylic AcidANickel SulfateASea WaterANitric Acid (20%)DSiliconeANitric Acid (50%)DSilver NitrateANitric Acid (5-10%)DSoap SolutionsA	Mercuric Chloride (dilute)	D	Phosphoric Acid (more than 40%)	В
Methyl AcètateAPhotographic SolutionsAMethyl Alcohol 10%BPicric AcidCMethyl Butyl KetoneDPotassium BromideAMethyl CellosolveCPotassium ChlorateCMethyl ChlorideBPotassium ChlorideAMethyl Ethyl KetoneAPotassium DichromateBMethylene ChlorideCPotassium Hydroxide (Caustic Potash)CMilkAPotassium NitrateBMineral SpiritsAPotassium PermanganateDMotor oilAPotassium SulfateAMustardAPropane (liquefied)ANaphthaAPropylene GlycolANickel ChlorideCPyridineCNickel SulfateASalicylic AcidANitric Acid (20%)DSiliconeANitric Acid (50%)DSilver NitrateANitric Acid (5-10%)DSoap SolutionsA	Mercury	Α		В
Methyl Alcohol 10%BPicric AcidCMethyl Butyl KetoneDPotassium BromideAMethyl CellosolveCPotassium ChlorateCMethyl ChlorideBPotassium ChlorideAMethyl Ethyl KetoneAPotassium DichromateBMethylene ChlorideCPotassium Hydroxide (Caustic Potash)CMilkAPotassium NitrateBMineral SpiritsAPotassium PermanganateDMotor oilAPotassium SulfateAMustardAPropane (liquefied)ANaphthaAPropylene GlycolANickel ChlorideCPyridineCNickel NitrateASalicylic AcidANickel SulfateASea WaterANitric Acid (20%)DSiliconeANitric Acid (50%)DSilver NitrateANitric Acid (5-10%)DSoap SolutionsA	Methanol (Methyl Alcohol)	В	Phosphoric Acid (less than 40%)	В
Methyl Butyl KetoneDPotassium BromideAMethyl CellosolveCPotassium ChlorateCMethyl ChlorideBPotassium ChlorideAMethyl Ethyl KetoneAPotassium DichromateBMethylene ChlorideCPotassium Hydroxide (Caustic Potash)CMilkAPotassium NitrateBMineral SpiritsAPotassium PermanganateDMotor oilAPotassium SulfateAMustardAPropane (liquefied)ANaphthaAPropylene GlycolANickel ChlorideCPyridineCNickel NitrateASalicylic AcidANickel SulfateASea WaterANitric Acid (20%)DSiliconeANitric Acid (50%)DSilver NitrateANitric Acid (5-10%)DSoap SolutionsA	Methyl Acetate	Α	Photographic Solutions	Α
Methyl CellosolveCPotassium ChlorateCMethyl ChlorideBPotassium ChlorideAMethyl Ethyl KetoneAPotassium DichromateBMethylene ChlorideCPotassium Hydroxide (Caustic Potash)CMilkAPotassium NitrateBMineral SpiritsAPotassium PermanganateDMotor oilAPotassium SulfateAMustardAPropane (liquefied)ANaphthaAPropylene GlycolANickel ChlorideCPyridineCNickel NitrateASalicylic AcidANickel SulfateASea WaterANitric Acid (20%)DSiliconeANitric Acid (50%)DSilver NitrateANitric Acid (5-10%)DSoap SolutionsA	Methyl Alcohol 10%	В	Picric Acid	С
Methyl ChlorideBPotassium ChlorideAMethyl Ethyl KetoneAPotassium DichromateBMethylene ChlorideCPotassium Hydroxide (Caustic Potash)CMilkAPotassium NitrateBMineral SpiritsAPotassium PermanganateDMotor oilAPotassium SulfateAMustardAPropane (liquefied)ANaphthaAPropylene GlycolANickel ChlorideCPyridineCNickel NitrateASalicylic AcidANickel SulfateASea WaterANitric Acid (20%)DSiliconeANitric Acid (50%)DSilver NitrateANitric Acid (5-10%)DSoap SolutionsA	Methyl Butyl Ketone	D	Potassium Bromide	
Methyl Ethyl KetoneAPotassium DichromateBMethylene ChlorideCPotassium Hydroxide (Caustic Potash)CMilkAPotassium NitrateBMineral SpiritsAPotassium PermanganateDMotor oilAPotassium SulfateAMustardAPropane (liquefied)ANaphthaAPropylene GlycolANickel ChlorideCPyridineCNickel NitrateASalicylic AcidANickel SulfateASea WaterANitric Acid (20%)DSiliconeANitric Acid (50%)DSilver NitrateANitric Acid (5-10%)DSoap SolutionsA	Methyl Cellosolve	С	Potassium Chlorate	С
Methylene ChlorideCPotassium Hydroxide (Caustic Potash)CMilkAPotassium NitrateBMineral SpiritsAPotassium PermanganateDMotor oilAPotassium SulfateAMustardAPropane (liquefied)ANaphthaAPropylene GlycolANickel ChlorideCPyridineCNickel NitrateASalicylic AcidANickel SulfateASea WaterANitric Acid (20%)DSiliconeANitric Acid (50%)DSilver NitrateANitric Acid (5-10%)DSoap SolutionsA	Methyl Chloride	В	Potassium Chloride	Α
MilkAPotassium NitrateBMineral SpiritsAPotassium PermanganateDMotor oilAPotassium SulfateAMustardAPropane (liquefied)ANaphthaAPropylene GlycolANickel ChlorideCPyridineCNickel NitrateASalicylic AcidANickel SulfateASea WaterANitric Acid (20%)DSiliconeANitric Acid (50%)DSilver NitrateANitric Acid (5-10%)DSoap SolutionsA	Methyl Ethyl Ketone	Α	Potassium Dichromate	
Mineral SpiritsAPotassium PermanganateDMotor oilAPotassium SulfateAMustardAPropane (liquefied)ANaphthaAPropylene GlycolANickel ChlorideCPyridineCNickel NitrateASalicylic AcidANickel SulfateASea WaterANitric Acid (20%)DSiliconeANitric Acid (50%)DSilver NitrateANitric Acid (5-10%)DSoap SolutionsA	Methylene Chloride	С	Potassium Hydroxide (Caustic Potash)	
Motor oil A Potassium Sulfate A Mustard A Propane (liquefied) A Naphtha A Propylene Glycol A Nickel Chloride C Pyridine C Nickel Nitrate A Salicylic Acid A Sea Water A Nitric Acid (20%) D Silicone A Nitric Acid (5-10%) D Soap Solutions A	Milk	Α	Potassium Nitrate	В
MustardAPropane (liquefied)ANaphthaAPropylene GlycolANickel ChlorideCPyridineCNickel NitrateASalicylic AcidANickel SulfateASea WaterANitric Acid (20%)DSiliconeANitric Acid (50%)DSilver NitrateANitric Acid (5-10%)DSoap SolutionsA	Mineral Spirits	Α	Potassium Permanganate	D
NaphthaAPropylene GlycolANickel ChlorideCPyridineCNickel NitrateASalicylic AcidANickel SulfateASea WaterANitric Acid (20%)DSiliconeANitric Acid (50%)DSilver NitrateANitric Acid (5-10%)DSoap SolutionsA	Motor oil	Α	Potassium Sulfate	Α
Nickel ChlorideCPyridineCNickel NitrateASalicylic AcidANickel SulfateASea WaterANitric Acid (20%)DSiliconeANitric Acid (50%)DSilver NitrateANitric Acid (5-10%)DSoap SolutionsA	Mustard	Α	Propane (liquefied)	Α
Nickel NitrateASalicylic AcidANickel SulfateASea WaterANitric Acid (20%)DSiliconeANitric Acid (50%)DSilver NitrateANitric Acid (5-10%)DSoap SolutionsA	Naphtha	Α	Propylene Glycol	
Nickel SulfateASea WaterANitric Acid (20%)DSiliconeANitric Acid (50%)DSilver NitrateANitric Acid (5-10%)DSoap SolutionsA	Nickel Chloride	С	Pyridine	C
Nitric Acid (20%)DSiliconeANitric Acid (50%)DSilver NitrateANitric Acid (5-10%)DSoap SolutionsA	Nickel Nitrate	Α	Salicylic Acid	Α
Nitric Acid (50%) D Silver Nitrate A Nitric Acid (5-10%) D Soap Solutions A	Nickel Sulfate	Α	Sea Water	Α
Nitric Acid (5-10%) D Soap Solutions A	Nitric Acid (20%)	D	Silicone	Α
	Nitric Acid (50%)	D	Silver Nitrate	Α
Nitric Acid (Concentrated) D Soda Ash (see Sodium Carbonate) B	Nitric Acid (5-10%)	D	Soap Solutions	Α
	Nitric Acid (Concentrated)	D	Soda Ash (see Sodium Carbonate)	В

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. 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.



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

Chemical Substance	Ratin
Xylene	Α
Zinc Chloride	Α
Zinc Sulfate	Α

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.



### Chemical Compatibility Disclaimer

The information in this chart has been compiled from several sources (listed below) 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, the purity of the chemicals involved, 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.

### Sources

https://www.plasticsintl.com/chemical-resistance-chart https://www.astisensor.com/KYNAR PVDF Chemical Compatibility Resistance Chart.pdf https://www.ipexna.com/media/12311/chemical-quide-us-ipex-pvdf.pdf https://www.polyfluor.nl/en/chemical-resistance/pvdf/

https://www.fhr.com/KochFHR/media/Polyproylenes-unrestricted/PP%20Random%20Copolymers/P5M6K-080.pdf https://mykin.com/rubber-chemical-resistance-chart

https://www.calpaclab.com/nylon-chemical-compatibility-chart/

https://www.calpaclab.com/acetal-polyoxymethylene-chemical-compatibility-chart/

https://www.calpaclab.com/polycarbonate-chemical-compatibility-chart/

https://www.polyfluor.nl/en/chemical-resistance/pvdf/

https://www.calpaclab.com/polypropylene-chemical-compatibility-chart/

https://www.ipexna.com/media/11974/chemical-guide-us-epdm-fkm.pdf

