

Chemical Resistance

The following table lists the chemical resistance suitability of CPVC ChemDrain thermoplastic piping materials and Fluoroelastomer (FKM), a commonly used seal material. The information shown is based upon laboratory tests conducted by the manufacturers of the materials, and it is intended to provide a general guideline on the resistance of these materials to various chemicals. **NOTICE:** This information is not a guarantee, and any piping systems using products made of these materials should be tested under actual service conditions to determine their suitability for a particular purpose. See website for most current data: www.charlottepipe.com.

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| | ChemDrain® CPVC in Laboratory Drainage Service | Fluoroelastomer (FKM) Transition Couplings (AW 95C, AW 96C) |
|----------------------------------|---|--|
| Acetaldehyde, pure | NR | NR |
| Acetic Acid | R | R |
| Acetic Anhydride | R | NR |
| Acetone, <20% | R | R |
| Acetone, pure | NR | NR |
| Acetonitrile, pure | R | NR |
| Acetyl Chloride | R | R |
| Acetophenone | NR | NR |
| Acrylic Acid, pure | R | NR |
| Acrylonitrile, pure | R | NR |
| Adipic Acid | R | R |
| Alcohol, Allyl, pure | R | NR |
| Alcohol, Amyl, up to 1% | R | R |
| Alcohol, Amyl, >1% | NR | R |
| Alcohol, Benzyl | R | R |
| Alcohol, Butyl (Butanol) | R | R |
| Alcohol, Diacetone | R | NR |
| Alcohol, Ethyl (Ethanol) | R | R |
| Alcohol, Hexyl (Hexanol) | R | R |
| Alcohol, Isopropyl (Isopropanol) | R | R |
| Alcohol, Methyl (Methanol) | R | NR |
| Alcohol, Octyl (1-n-Octanol) | R | R |
| Alcohol, Propyl (Propanol) | R | R |
| Allyl Alcohol, pure | R | NR |
| Allyl Chloride | NR | R |
| Alum | R | R |
| Aluminum Acetate | R | NR |
| Aluminum Chloride | R | R |
| Aluminum Fluoride | R | R |
| Aluminum Hydroxide | R | R |
| Aluminum Nitrate | R | R |
| Aluminum Sulfate | R | R |
| Amines | C | NR |
| Ammonia | R | NR |
| Ammonium Acetate | R | NR |

CAUTION

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| | ChemDrain® CPVC in Laboratory Drainage Service | Fluoroelastomer (FKM) Transition Couplings (AW 95C, AW 96C) |
|---|---|--|
| Ammonium Benzoate | R | •• |
| Ammonium Bifluoride | R | R |
| Ammonium Carbonate | R | R |
| Ammonium Chloride | R | R |
| Ammonium Citrate | R | •• |
| Ammonium Dichromate | R | •• |
| Ammonium Fluoride | R | R |
| Ammonium Hydroxide | R | NR |
| Ammonium Metaphosphate | R | •• |
| Ammonium Nitrate | R | R |
| Ammonium Persulfate | R | R |
| Ammonium Phosphate | R | R |
| Ammonium Sulfamate | R | NR |
| Ammonium Sulfate | R | R |
| Ammonium Sulfide | R | R |
| Ammonium Thiocyanate | R | R |
| Ammonium Tartrate | R | •• |
| Amyl Acetate | NR | NR |
| Amyl Alcohol, up to 1% | R | R |
| Amyl Alcohol, >1% | NR | R |
| Amyl Chloride | C | R |
| Aniline | NR | R |
| Aniline Hydrochloride | NR | R |
| Anthraquinone | NR | NR |
| Anti-Freeze: See Alcohols, Glycols and Glycerin | | |
| Antimony Trichloride, aqueous | R | R |
| Aqua Regia | R | R |
| Arsenic Acid | R | R |
| Aryl Sulfonic Acid | R | •• |
| Asphalt | NR | R |
| Barium Carbonate | R | R |
| Barium Chloride | R | R |
| Barium Hydroxide | R | R |
| Barium Nitrate | R | R |
| Barium Sulfate | R | R |

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| | ChemDrain® CPVC in Laboratory Drainage Service | Fluoroelastomer (FKM) Transition Couplings (AW 95C, AW 96C) |
|-----------------------|---|--|
| Barium Sulfide | R | R |
| Beer | R | R |
| Beet Sugar Liquors | R | R |
| Benzaldehyde | NR | NR |
| Benzene | NR | R |
| Benzene Sulfonic Acid | R | R |
| Benzoic Acid, aqueous | R | R |
| Benzyl Alcohol | R | R |
| Benzyl Chloride | NR | R |
| Bismuth Carbonate | R | R |
| Black Liquor | R | R |
| Bleach | R | R |
| Blood | R | R |
| Borax | R | R |
| Boric Acid | R | R |
| Brine Acid | R | •• |
| Bromic Acid | R | •• |
| Bromine, liquid | R | R |
| Bromine, aqueous | R | R |
| Bromobenzene | NR | R |
| Bromotoluene | NR | •• |
| Butanol, pure | R | R |
| Butyl Acetate | NR | NR |
| Butyl Carbitol | R | R |
| Butyl Cellosolve | NR | NR |
| Butyl Phenol | NR | •• |
| Butyric Acid, >1% | NR | NR |
| Cadmium Acetate | R | NR |
| Cadmium Chloride | R | •• |
| Cadmium Cyanide | R | R |
| Cadmium Sulfate | R | •• |
| Calcium Acetate | R | NR |
| Calcium Bisulfide | R | R |
| Calcium Bisulfite | R | R |
| Calcium Carbonate | R | R |

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|---------------------------------|---|--|
| Calcium Chlorate | R | R |
| Calcium Chloride | R | R |
| Calcium Hydroxide | R | R |
| Calcium Hypochlorite | R | R |
| Calcium Nitrate | R | R |
| Calcium Oxide | R | R |
| Calcium Sulfate | R | R |
| Cane Sugar Liquors | R | R |
| Caprolactam, aqueous | R | NR |
| Caprolactone, aqueous | R | NR |
| Carbitol | R | R |
| Carbolic Acid, pure | R | R |
| Carbon Disulfide | NR | R |
| Carbon Tetrachloride | NR | R |
| Carbonic Acid | R | R |
| Castor Oil | NR | R |
| Caustic Potash | R | R |
| Caustic Soda (Sodium Hydroxide) | R | NR |
| Cellosolve | NR | NR |
| Cellosolve Acetate | NR | NR |
| Chloramine, aqueous | R | NR |
| Chloric Acid | R | •• |
| Chlorine, aqueous | R | R |
| Chlorine Dioxide, aqueous | R | R |
| Chloroacetic Acid, pure | R | NR |
| Chlorobenzene | NR | R |
| Chloroform | NR | R |
| Chromic Acid, 40% | R | R |
| Chromium Nitrate | R | •• |
| Citric Acid | R | R |
| Citrus Oils | R | •• |
| Coconut Oil | NR | R |
| Coffee | R | •• |
| Copper Acetate | R | NR |
| Copper Carbonate | R | R |

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| | ChemDrain® CPVC in Laboratory Drainage Service | Fluoroelastomer (FKM) Transition Couplings (AW 95C, AW 96C) |
|-------------------------|---|--|
| Copper Chloride | R | R |
| Copper Cyanide | R | R |
| Copper Fluoride | R | •• |
| Copper Nitrate | R | R |
| Copper Sulfate | R | R |
| Corn Oil | NR | R |
| Corn Syrup | R | R |
| Cottonseed Oil | NR | R |
| Creosote | NR | R |
| Cresol | NR | R |
| Crotonaldehyde | R | NR |
| Cumene | NR | R |
| Cupric Fluoride | R | R |
| Cupric Sulfate | R | R |
| Cuprous Chloride | R | •• |
| Cyclohexane | R | R |
| Cyclohexanol | R | R |
| Cyclohexanone | R | NR |
| Decahydronaphthalene | R | •• |
| Detergents | R | R |
| Dextrin | R | R |
| Dextrose | R | R |
| Diacetone Alcohol | R | NR |
| Dibutoxyethyl Phthalate | NR | NR |
| Dibutyl Ether | NR | NR |
| Dibutyl Phthalate | NR | NR |
| Dibutyl Sebacate | NR | NR |
| Dichlorobenzene | NR | R |
| Dichloroethylene | NR | NR |
| Diesel Fuel | NR | R |
| Diethylamine | NR | NR |
| Diethyl Cellosolve | R | NR |
| Diethyl Ether | NR | NR |
| Diglycolic Acid | R | •• |
| Dill Oil | C | •• |

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| | ChemDrain® CPVC in Laboratory Drainage Service | Fluoroelastomer (FKM) Transition Couplings (AW 95C, AW 96C) |
|---------------------------|---|--|
| Dimethyl Phthalate | NR | R |
| Dimethylamine | NR | NR |
| Dimethylformamide (DMF) | NR | NR |
| Dimethylhydrazine | NR | NR |
| Diocetyl Phthalate | NR | R |
| Disodium Phosphate | R | R |
| Dioxane, pure | R | NR |
| Distilled Water | R | R |
| Dry Cleaning Fluid | NR | R |
| EDTA, Tetrasodium Aqueous | R | R |
| Ethanol, pure | R | R |
| Ethyl Acetate | R | NR |
| Ethyl Acetoacetate | R | NR |
| Ethyl Acrylate | R | NR |
| Ethyl Benzene | NR | R |
| Ethyl Chloride | NR | R |
| Ethyl Chloroacetate | NR | •• |
| Ethyl Ether | NR | NR |
| Ethyl Formate | NR | R |
| Ethyl Mercaptan | NR | R |
| Ethyl Oxalate | NR | R |
| Ethylene Bromide | NR | •• |
| Ethylene Chloride | NR | R |
| Ethylene Chlorohydrin | NR | R |
| Ethylene Glycol, <50% | R | R |
| Ethylene Glycol, >50% | NR | R |
| Ethylene Oxide | R | NR |
| Ethylenediamine | R | NR |
| 2-Ethylhexanol | NR | R |
| Fatty Acids | C | R |
| Ferric Chloride | R | R |
| Ferric Hydroxide | R | R |
| Ferric Nitrate | R | R |
| Ferric Sulfate | R | R |
| Ferrous Chloride | R | R |

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|------------------------------------|---|--|
| Ferrous Hydroxide | R | R |
| Ferrous Nitrate | R | R |
| Ferrous Sulfate | R | R |
| Fish Oil | C | R |
| Fluoboric Acid | R | •• |
| Fluosilicic Acid | R | R |
| Formaldehyde, 35-50% aqueous | R | NR |
| Formalin (37% to 50% Formaldehyde) | R | NR |
| Formic Acid, pure | R | NR |
| Fructose | R | R |
| Furfural | NR | NR |
| Gallic Acid, aqueous | R | R |
| Gasoline | NR | R |
| Gelatine | R | R |
| Glucose | R | R |
| Glycerine | R | R |
| Glycol, Ethylene, <50% | R | R |
| Glycol, Ethylene, >50% | NR | R |
| Glycol, Polyethylene (carbowax) | R | R |
| Glycol, Polypropylene, >25% | NR | R |
| Glycol, Propylene, <25% | R | R |
| Glycol, Propylene, >25% | NR | R |
| Glycolic Acid | R | •• |
| Glyoxal, aqueous | R | •• |
| Green Liquor | R | •• |
| Halocarbon Oils | NR | •• |
| Heptane | R | R |
| Hexane | R | R |
| Hexanol | R | R |
| Hydrazine | R | NR |
| Hydrobromic Acid | R | R |
| Hydrochloric Acid | R | R |
| Hydrocyanic Acid | R | R |
| Hydrofluoric Acid | R | NR |
| Hydrogen Peroxide, 50% | R | R |

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|------------------------------------|---|--|
| Hydrogen Sulfide, aqueous | R | NR |
| Hydroquinone, aqueous | R | R |
| Hydroxylamine Sulfate | R | •• |
| Hypochlorous Acid | R | R |
| Iodine | R | R |
| Isobutyl Alcohol | R | R |
| Isophorone | NR | NR |
| Isopropanol, pure | R | R |
| Isopropyl Acetate | R | NR |
| Isopropyl Chloride | NR | R |
| Isopropyl Ether | NR | NR |
| Kerosene | NR | R |
| Ketchup | R | R |
| Kraft Liquors | R | R |
| Lactic Acid | R | R |
| Lard Oil | NR | R |
| Lauryl Chloride | R | R |
| Lead Acetate | R | NR |
| Lead Chloride | R | R |
| Lead Nitrate | R | R |
| Lead Sulfate | R | R |
| Lemon Oil | C | R |
| Ligroin | R | R |
| Limonene | R | R |
| Linoleic Acid | C | R |
| Linseed Oil | C | R |
| Lithium Bromide | R | R |
| Lithium Chloride | R | R |
| Lithium Hydroxide | R | NR |
| Lithium Sulfate | R | R |
| Lubricating Oils (Petroleum Based) | R | R |
| Magnesium Carbonate | R | R |
| Magnesium Chloride | R | R |
| Magnesium Citrate | R | R |
| Magnesium Fluoride | R | R |

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|-----------------------------|---|--|
| Magnesium Hydroxide | R | R |
| Magnesium Nitrate | R | R |
| Magnesium Oxide | R | R |
| Magnesium Sulfate | R | R |
| Maleic Acid | R | R |
| Malic Acid | R | R |
| Manganese Sulfate | R | R |
| Mercuric Chloride | R | R |
| Mercuric Cyanide | R | R |
| Mercuric Sulfate | R | R |
| Mercurous Nitrate | R | R |
| Mercury | R | R |
| Methanesulfonic Acid | R | • • |
| Methanol, up to 10% | R | NR |
| Methanol | R | NR |
| Methanol, pure | R | NR |
| Methyl Acetate, pure | NR | NR |
| Methyl Cellosolve | NR | NR |
| Methyl Chloride | NR | R |
| Methyl Chloroform | NR | R |
| Methyl Ethyl Ketone | NR | NR |
| Methyl Formate | NR | NR |
| Methyl Isobutyl Ketone | NR | NR |
| Methyl Isopropyl Ketone | NR | NR |
| Methyl Methacrylate | NR | NR |
| Methylamine | NR | NR |
| Methylene Bromide | NR | NR |
| Methylene Chloride | NR | NR |
| Methylene Chlorobromide | NR | NR |
| Methylene Iodide | NR | NR |
| Mineral Oil | R | R |
| Molasses | R | R |
| Monoethanolamine | NR | NR |
| Morpholine | R | • • |
| Motor Oil (Petroleum Based) | R | R |

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|------------------------|---|--|
| Muriatic Acid | R | R |
| Naphtha | C | R |
| Naphthalene | NR | R |
| Nickel Acetate | R | NR |
| Nickel Chloride | R | R |
| Nickel Nitrate | R | R |
| Nickel Sulfate | R | R |
| Nitric Acid, <30% | R | R |
| Nitrobenzene | NR | NR |
| Nitroethane | NR | NR |
| Nitroglycerine | C | • • |
| Nitromethane | NR | NR |
| Nitrous Acid | R | C |
| Octane | R | R |
| Octanol | R | R |
| Oil, Crude | C | R |
| Oleum | R | R |
| Olive Oil | C | R |
| Oxalic Acid | R | R |
| Ozonated Water | R | NR |
| Palm Oil | C | R |
| Paraffin | R | R |
| Peanut Oil | C | R |
| Peppermint Oil | C | R |
| Peracetic Acid | R | • • |
| Perchloric Acid, 10% | R | R |
| Perchloroethylene | NR | R |
| Phenol, pure | R | R |
| Phenylhydrazine | NR | NR |
| Phosphate Esters | NR | NR |
| Phosphoric Acid | R | R |
| Phosphorus Pentoxide | R | • • |
| Phosphorus Trichloride | R | R |
| Photographic Solutions | R | R |
| Phthalic Acid | NR | NR |

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|--------------------------------|---|--|
| Picric Acid, <10% | R | R |
| Pine Oil | R | R |
| Plating Solutions | R | R |
| POE Oil (Polyolester) | NR | NR |
| Polyethylene Glycol (carbowax) | R | R |
| Polyvinyl Alcohol | R | R |
| Potash | R | R |
| Potassium Acetate | R | NR |
| Potassium Bicarbonate | R | R |
| Potassium Bichromate | R | R |
| Potassium Bisulfate | R | R |
| Potassium Borate | R | R |
| Potassium Bromate | R | R |
| Potassium Bromide | R | R |
| Potassium Carbonate | R | R |
| Potassium Chlorate | R | R |
| Potassium Chloride | R | R |
| Potassium Chromate | R | R |
| Potassium Cyanate | R | R |
| Potassium Cyanide | R | R |
| Potassium Dichromate | R | R |
| Potassium Ferricyanide | R | R |
| Potassium Ferrocyanide | R | R |
| Potassium Fluoride | R | R |
| Potassium Hydroxide | R | NR |
| Potassium Hypochlorite | R | NR |
| Potassium Iodide | R | R |
| Potassium Nitrate | R | R |
| Potassium Perborate | R | R |
| Potassium Perchlorate | R | R |
| Potassium Permanganate | R | R |
| Potassium Persulfate | R | R |
| Potassium Phosphate | R | R |
| Potassium Sulfate | R | R |
| Potassium Sulfide | R | R |

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|----------------------------|---|--|
| Potassium Sulfite | R | R |
| Potassium Tripolyphosphate | R | R |
| Propanol, pure | R | R |
| Propargyl Alcohol | R | •• |
| Propionic Acid, >5% | R | R |
| Propionic Acid, pure | R | NR |
| Propyl Acetate | NR | NR |
| Propyl Bromide | NR | NR |
| Propylene Dichloride | NR | R |
| Propylene Glycol, <25% | R | R |
| Propylene Glycol, >25% | NR | R |
| Propylene Oxide | R | NR |
| Pyridine | R | NR |
| Pyrogallol | R | •• |
| Pyrrole | NR | NR |
| Reverse Osmosis Water | R | R |
| Salicylaldehyde | R | •• |
| Sea Water | R | R |
| Silicic Acid | R | •• |
| Silicone Oil | R | R |
| Silver Chloride | R | •• |
| Silver Cyanide | R | R |
| Silver Nitrate | R | R |
| Silver Sulfate | R | R |
| Soaps | R | R |
| Sodium Acetate | R | R |
| Sodium Aluminate | R | R |
| Sodium Arsenate | R | R |
| Sodium Benzoate | R | R |
| Sodium Bicarbonate | R | R |
| Sodium Bichromate | R | R |
| Sodium Bisulfate | R | R |
| Sodium Bisulfite | R | R |
| Sodium Borate | R | R |
| Sodium Bromide | R | R |

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|-------------------------|---|--|
| Sodium Carbonate | R | R |
| Sodium Chlorate | R | R |
| Sodium Chloride | R | R |
| Sodium Chlorite | R | R |
| Sodium Chromate | R | R |
| Sodium Cyanide | R | R |
| Sodium Dichromate | R | R |
| Sodium Ferricyanide | R | R |
| Sodium Ferrocyanide | R | R |
| Sodium Fluoride | R | R |
| Sodium Formate | R | • • |
| Sodium Hydroxide | R | NR |
| Sodium Hypobromite | R | • • |
| Sodium Hypochlorite | R | R |
| Sodium Iodide | R | R |
| Sodium Metaphosphate | R | R |
| Sodium Nitrate | R | R |
| Sodium Nitrite | R | R |
| Sodium Palmitate | R | • • |
| Sodium Perborate | R | R |
| Sodium Perchlorate | R | • • |
| Sodium Peroxide | R | R |
| Sodium Phosphate | R | R |
| Sodium Silicate | R | R |
| Sodium Sulfate | R | R |
| Sodium Sulfide | R | R |
| Sodium Sulfite | R | R |
| Sodium Thiosulfate | R | R |
| Sodium Tripolyphosphate | R | • • |
| Soybean Oil | C | R |
| Stannic Chloride | R | R |
| Stannous Chloride | R | R |
| Stannous Sulfate | R | R |
| Starch | R | R |
| Stearic Acid | R | R |

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| | ChemDrain® CPVC in Laboratory Drainage Service | Fluoroelastomer (FKM) Transition Couplings (AW 95C, AW 96C) |
|---------------------------|---|--|
| Strontium Chloride | R | • • |
| Styrene Monomer | NR | R |
| Succinic Acid | R | R |
| Sugar | R | R |
| Sulfamic Acid | R | R |
| Sulfuric Acid | R | R |
| Sulfurous Acid | R | R |
| Tall Oil | R | R |
| Tannic Acid | R | R |
| Tartaric Acid | R | R |
| Tetrachloroethylene | NR | R |
| Tetrahydrofuran | NR | NR |
| Tetrahydronaphthalene | NR | R |
| Tetrasodium Pyrophosphate | R | • • |
| Thionyl Chloride | R | R |
| Toluene | NR | R |
| Tomato Juice | R | R |
| Tributyl Citrate | NR | NR |
| Tributyl Phosphate | NR | NR |
| Trichloroacetic Acid | R | NR |
| Trichloroethylene | NR | R |
| Triethanolamine | R | NR |
| Triethylamine | R | NR |
| Trimethyl Propane | R | • • |
| Trisodium Phosphate | R | • • |
| Tung Oil | C | R |
| Turpentine | C | R |
| Urea | R | • • |
| Urine | R | • • |
| Vegetable Oils | C | R |
| Vinegar | R | R |
| Vinyl Acetate | R | NR |
| Water | R | R |
| Water - Deionized | R | R |
| Whiskey | R | R |

See www.primark-id.com for the most current data

Chemical Resistance

The following table lists the chemical resistance suitability of CPVC ChemDrain thermoplastic piping materials and Fluoroelastomer (FKM), a commonly used seal material. The information shown is based upon laboratory tests conducted by the manufacturers of the materials, and it is intended to provide a general guideline on the resistance of these materials to various chemicals. **NOTICE:** This information is not a guarantee, and any piping systems using products made of these materials should be tested under actual service conditions to determine their suitability for a particular purpose. See website for most current data: www.charlottepipe.com.


CAUTION

The chemical resistance table shown within this manual is for CPVC in a typical laboratory drainage environment. To reduce the risk of system failure, always evaluate the chemical resistance information and project specific factors.

C = Consult Charlotte Pipe NR = Not Recommended
R = Recommended • • = No Data

| | ChemDrain® CPVC in Laboratory Drainage Service | Fluoroelastomer (FKM) Transition Couplings (AW 95C, AW 96C) |
|----------------|---|--|
| White Liquor | R | R |
| Wine | R | R |
| Xylene | NR | R |
| Zinc Acetate | R | NR |
| Zinc Carbonate | R | R |

C = Consult Charlotte Pipe NR = Not Recommended
R = Recommended • • = No Data

| | ChemDrain® CPVC in Laboratory Drainage Service | Fluoroelastomer (FKM) Transition Couplings (AW 95C, AW 96C) |
|---------------|---|--|
| Zinc Chloride | R | R |
| Zinc Nitrate | R | R |
| Zinc Sulfate | R | R |
| | | |

See www.primark-id.com for the most current data