

INTREPID® Media Chemical Resistance Guide



This guide has been prepared to assist you in determining whether INTREPID® Media is resistant to the chemicals you filter. This is only a guide and should not be a substitute for offline testing of resistance. Kimberly-Clark Corporation makes no claim as to the efficacy of INTREPID® Media for a particular application and assumes no liability for damages, lost production or other harm caused by the interactions of process chemistries with our filter media.

LEGEND

- R = Resistant to Chemical
- T = Testing Recommended
- NR = Not Recommended

All solutions are aqueous unless specified otherwise

Chemical Agents in alphabetical order

CHEMICAL AGENT	COMPATIBILITY	COMMENTS
Acetaldehyde	NR	
Acetic Acid	T	
Acetic Anhydride	NR	
Acetone	NR	
Acrylics	T	
Aircraft Fuels	NR	
Aircraft Turbine Fuels	T	<60°C (140°F)
Alum	R	
Aluminum Chloride	R	
Aluminum Fluoride	R	
Aluminum Sulfate	R	
Ammonia	R	
Ammonium Carbonate	R	saturated solution
Ammonium Chloride	R	saturated solution
Ammonium Fluoride	R	up to 25 wt% concentration
Ammonium Hydroxide	R	
Ammonium Metaphosphate	R	saturated solution
Ammonium Nitrate	R	saturated solution
Ammonium Persulfate	R	saturated solution
Ammonium Sulfate	R	saturated solution
Ammonium Sulfide	R	saturated solution
Ammonium Thiocyanate	R	saturated solution
Amyl Acetate	NR	
Amyl Alcohol	NR	
Amyl Chloride	NR	
Aniline	NR	
Antifreeze	R	ethylene glycol
Aqua Regia	NR	
Arsenic Acid	T	
Barium Carbonate	R	saturated solution
Barium Chloride	R	saturated solution
Barium Hydroxide	R	saturated solution
Barium Sulfate	R	saturated solution
Barium Sulfide	R	saturated solution
Beer	R	
Benzene	NR	
Benzoic Acid	R	
Bismuth Chloride	R	saturated solution
Bleach	R	5 wt% solution
Borax	R	
Boric Acid	R	
Brake Fluid	R	
Brine	R	saturated solution
Bromic Acid	NR	
Bromine	NR	

CHEMICAL AGENT	COMPATIBILITY	COMMENTS
Butyl Acetate	NR	
Butyl Acrylate	NR	
Butyl Alcohol	T	
Calcium Bisulfide	R	
Calcium Bisulfite	R	
Calcium Carbonate	R	saturated solution
Calcium Chlorate	R	saturated solution
Calcium Chloride	R	up to 50 wt% concentration
Calcium Hydroxide	R	
Calcium Hypochlorite	R	up to 20 wt% concentration
Calcium Nitrate	R	
Calcium Sulfate	R	saturated solution
Carbon Dioxide	R	
Carbon Disulfide	NR	
Carbon Monoxide	R	
Carbon Tetrachloride	NR	
Carbonic Acid	R	
Castor Oil	T	
Chlorine	NR	
Chloroacetic Acid	NR	
Chlorobenzene	NR	
Chloroform	NR	
Chlorosulfonic Acid	NR	
Chromic Acid	T	<50°C (122°F)
Cider	T	
Citric Acid	T	
Coconut Oil	T	
Copper Chloride	R	saturated solution
Copper Cyanide	R	saturated solution
Copper Fluoride	R	saturated solution
Copper Nitrate	R	saturated solution
Copper Sulfate	R	saturated solution
Corn Oil	T	
Cottonseed Oil	T	
Cresol	T	mixed isomers
Cuprous Chloride	R	saturated solution
Cyclohexane	T	
Cyclohexanone	NR	
Cyclohexyl Alcohol	T	
Detergents	R	2 wt% concentration
Dextrin	R	
Dibutyl Phthalate	T	<99°C (210°F)
Diglycolic Acid	T	
Diisooctyl Phthalate	T	
Ethyl Acetate	NR	
Ethyl Alcohol	T	up to 96 wt% in water
Ethyl Chloride	NR	

CHEMICAL AGENT	COMPATIBILITY	COMMENTS
Ethyl Ether	NR	
Ethylamine	T	
Ethylene Chloride	NR	
Ethylene Chlorohydrin	NR	
Ethylene Dichloride	NR	
Ethylene Glycol	T	
Ethylene Glycol Ethyl Ether	R	
Fatty Acids	R	
Ferric Chloride	R	saturated solution
Ferric Nitrate	R	saturated solution
Ferrous Chloride	R	saturated solution
Ferrous Sulfate	R	saturated solution
Fluorine	NR	
Fluosilicic Acid	R	
Formaldehyde	T	up to 40 wt% solution
Formic Acid	T	up to 85 wt% solution
Fructose	R	
Fruit Juices	R	
Fuel Oils	NR	
Furfural	NR	
Gasoline	NR	
Glucose	R	
Glycerine	T	
Glycolic Acid	T	
Glycols	T	
Heptane	NR	
Hydrobromic Acid	T	
Hydrochloric Acid	R	
Hydrocyanic Acid	R	
Hydrofluoric Acid	R	
Hydrogen Chloride	R	dry gas
Hydrogen Peroxide	T	<99°C (210°F), <90 wt% conc.
Hydrogen Sulfide	R	
Hydroquinone	R	
Inks	T	
Iodine	T	includes tincture of iodine
Isopropyl Alcohol	R	
Jet Aircraft Fuels	T	JP 4 and JP 5
Kerosene	T	
Lactic Acid	T	
Lead Acetate	R	saturated solution
Linseed Oil	T	
Magnesium Carbonate	R	saturated solution
Magnesium Chloride	R	saturated solution
Magnesium Hydroxide	R	saturated solution
Magnesium Nitrate	R	saturated solution
Magnesium Sulfate	R	saturated solution

CHEMICAL AGENT	COMPATIBILITY	COMMENTS
Mercuric Chloride	R	up to 40 wt% solution
Mercuric Cyanide	R	saturated solution
Mercurous Nitrate	R	saturated solution
Mercury	R	
Methyl Alcohol	T	
Methyl Chloride	NR	
Methyl Ethyl Ketone	NR	
Methyl Sulfuric Acid	T	
Methylene Chloride	NR	
Milk	R	and its products
Mineral Oils	T	
Mineral Spirits	T	
Molasses	R	
Motor Oils	R	<99°C (210°F)
Naphthalene	NR	
Naptha	T	<60°C (140°F)
Nickel Chloride	R	saturated solution
Nickel Nitrate	R	saturated solution
Nickel Sulfate	R	saturated solution
Nitric Acid	T	up to concentrated
Nitrobenzene	NR	
Oleic Acid	T	
Oleum	NR	
Olive Oil	R	
Oxalic Acid	T	
Oxygen	NR	
Ozone	NR	
Paraffin	R	
Potassium Dichromate	R	saturated solution
Peanut Oil	R	
Perchloric Acid	R	
Perchloroethylene	NR	
Petroleum Ether	NR	
Phenol	T	<60°C (140°F)
Phosphoric Acid	R	
Phosphorus	R	
Photographic Developers	T	
Plating Solutions	T	refer to specific metal
Polyethelene Oxide Surfactant	T	
Potassium Bicarbonate	R	saturated solution
Potassium Borate	R	saturated solution
Potassium Bromate	R	saturated solution
Potassium Bromide	R	saturated solution
Potassium Chloride	R	saturated solution
Potassium Chromate	R	saturated solution
Potassium Cyanide	R	saturated solution
Potassium Ferrocyanide	R	

CHEMICAL AGENT	COMPATIBILITY	COMMENTS
Potassium Ferricyanide	R	
Potassium Fluoride	R	
Potassium Hydroxide	R	up to 50 wt% concentration
Potassium Nitrate	R	saturated solution
Potassium Perborate	R	saturated solution
Potassium Perchlorate	R	up to 10 wt% concentration
Potassium Permanganate	R	up to 20 wt% concentration
Potassium Sulfate	R	saturated solution
Potassium Sulfide	R	
Potassium Sulfite	R	
Propyl Alcohol	R	
Pyridine	T	
Sea Water	R	salinity 27%
Silicone Oils	R	
Soaps	R	concentrated solutions
Sodium Acetate	R	
Sodium Benzoate	R	
Sodium Bicarbonate	R	saturated solution
Sodium Bisulfate	R	saturated solution
Sodium Bisulfite	R	saturated solution
Sodium Borate	R	
Sodium Bromide	R	
Sodium Carbonate	R	saturated solution
Sodium Chlorate	R	saturated solution
Sodium Chloride	R	saturated solution
Sodium Chlorite	R	up to 20 wt% concentration
Sodium Cyanide	R	saturated solution
Sodium Dichromate	R	saturated solution
Sodium Ferricyanide	R	saturated solution
Sodium Fluoride	R	saturated solution
Sodium Hydroxide	R	up to a saturated solution
Sodium Hypochlorite	R	up to 20 wt% concentration
Sodium Nitrate	R	saturated solution
Sodium Sulfate	R	saturated solution
Sodium Sulfide	R	up to 25 wt% concentration
Sodium Sulfite	R	saturated solution
Stannic Chloride	R	saturated solution
Stannous Chloride	R	saturated solution
Starch	T	
Stearic Acid	T	
Succinic Acid	T	
Sucrose	R	
Sugars	R	
Sulfamic Acid	R	
Sulfur	R	
Sulfur Chloride	R	
Sulfur Dioxide	R	

CHEMICAL AGENT	COMPATIBILITY	COMMENTS
Sulfuric Acid	T	up to concentrate acid
Sulfurous Acid	R	
Tallow	T	
Tannic Acid	T	
Tartaric Acid	T	
Tetrahydrofuran	NR	
Toluene	NR	
Transformer Oils	T	<60°C (140°F)
Trichloroethylene	NR	
Triethanolamine	T	
Trisodium Phosphate	R	
Turpentine	NR	
Urea	R	
Urine	R	
Vegetable Oils	R	
Vinegar	R	
Water	R	
Whiskey	T	
Wines	T	
Xylene	NR	
Yeast	R	
Zinc Chloride	R	saturated solution
Zinc Oxide	R	
Zinc Sulfate	R	saturated solution

Chemical resistance information courtesy of Plastics Design Library, an imprint of Williams Andrews Publishing. Used with permission.