

## H-Cube® Advance/Pro Solvent Resistance

### Chemical Compatibility Results

#### Chemical rating key:

**A**= Little to no Interaction  
**B**= Slight Interaction  
**C**= Not Recommended

Please note that cyclohexane, toluene and methylene chloride are not recommended solvents as they can interact with the sealing of the HPLC pump.

TFA compatibility with SS-316: at 71 °C (30-day test): 0.07 Mils/yr

Please note that AcCN should not be used as solvent since it may get hydrogenated instead or parallel with your starting material.

| Chemical                               | Rating Stainless Steel | Rating Teflon | Notes                                       |
|----------------------------------------|------------------------|---------------|---------------------------------------------|
| Abletic Acid                           |                        | A             |                                             |
| Acetic Acid                            |                        | A             |                                             |
| Acetic Acid, 100%                      | A                      |               | Elevated Temperatures May Reduce Resistance |
| Acetic Acid, 20%                       | A                      |               |                                             |
| Acetic Acid, 60%                       | A                      |               |                                             |
| Acetic Acid, 95%                       | A                      |               |                                             |
| Acetic Acid, Glacial                   |                        | A             |                                             |
| Acetic Anhydride                       | B                      | A             |                                             |
| Acetone                                | A                      | A             |                                             |
| Acetophenone                           |                        | A             |                                             |
| Acetylene                              | A                      |               |                                             |
| Acrylic Anhydride                      |                        | A             |                                             |
| Aluminum Acetate, 100%                 | B                      |               |                                             |
| Aluminum Chloride                      | C                      | A             |                                             |
| Aluminum Hydroxide, 10%                | B                      |               |                                             |
| Aluminum Sulfate, 100%                 | B                      |               |                                             |
| Aluminum Sulfate, 50%                  | A                      |               |                                             |
| Aluminum, Molten                       | C                      |               |                                             |
| Allyl Acetate                          |                        | A             |                                             |
| Allyl Methacrylate                     |                        | A             |                                             |
| Ammonia, 100%                          | A                      |               | Elevated Temperatures May Reduce Resistance |
| Ammonia, 40%                           | A                      |               | Elevated Temperatures May Reduce Resistance |
| Ammonia, Liquid                        |                        | A             |                                             |
| Ammonium Bicarbonate, 100%             | C                      |               |                                             |
| Ammonium Bicarbonate, 90%              | B                      |               |                                             |
| Ammonium Carbonate, All Concentrations | B                      |               | Elevated Temperatures May Reduce Resistance |
| Ammonium Chloride                      |                        | A             |                                             |

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| Chemical                 | Rating<br>Stainless<br>Steel | Rating Teflon | Notes                                       |
|--------------------------|------------------------------|---------------|---------------------------------------------|
| Ammonium Chloride, 10%   | B                            |               | Elevated Temperatures May Reduce Resistance |
| Ammonium Chloride, 25%   | B                            |               | Elevated Temperatures May Reduce Resistance |
| Ammonium Chloride, 50%   | C                            |               |                                             |
| Ammonium Hydroxide       |                              | A             |                                             |
| Ammonium Nitrate         | A                            |               |                                             |
| Ammonium Oxalate, 10%    | B                            |               |                                             |
| Ammonium Oxalate, 5%     | A                            |               |                                             |
| Ammonium Persulfate, 5%  | A                            |               |                                             |
| Ammonium Sulfate, 10%    | A                            |               |                                             |
| Ammonium Sulfite, 10%    | B                            |               |                                             |
| Amyl Acetate             | A                            |               |                                             |
| Amyl Chloride            | A                            |               |                                             |
| Aniline                  |                              | A             |                                             |
| Aniline, 10%             | B                            |               |                                             |
| Aniline, 3%              | A                            |               |                                             |
| Aqua Regia               |                              | A             |                                             |
| Barium Carbonate         | B                            |               |                                             |
| Barium Chloride, 10%     | B                            |               |                                             |
| Barium Chloride, 5%      | A                            |               |                                             |
| Barium Nitrate           | B                            |               |                                             |
| Barium Sulfate           | B                            |               |                                             |
| Barium Sulfide, 100%     | B                            |               |                                             |
| Beer                     | A                            |               |                                             |
| Benzaldehyde             |                              | A             |                                             |
| Benzene                  | B                            | A             |                                             |
| Benzoic Acid, 60%        | B                            |               |                                             |
| Benzol                   | A                            |               |                                             |
| Benzonitrile             |                              | A             |                                             |
| Benzoyl Chloride         |                              | A             |                                             |
| Benzyl Alcohol           |                              | A             | Room Temperature Only                       |
| Borax                    |                              | A             |                                             |
| Boric Acid               |                              | A             |                                             |
| Boric Acid, 10%          | A                            |               |                                             |
| Boric Acid, 100%         | B                            |               |                                             |
| Bromine                  |                              | A             |                                             |
| Bromine Water            | C                            |               |                                             |
| Bromine, Anhydrous       |                              | A             | Room Temperature Only                       |
| Butane                   | B                            |               | Room Temperature Only                       |
| Butanol                  | A                            |               | Room Temperature Only                       |
| Buttermilk               | A                            |               |                                             |
| Butyl Acetate            | A                            | A             |                                             |
| Butyl Amine (n-)         |                              | A             |                                             |
| Butyl Methacrylate       |                              | A             |                                             |
| Butyric Acid, 100%       | B                            |               |                                             |
| Butyric Acid, 5%         | A                            |               |                                             |
| Calcium Carbonate, 100%  | B                            |               |                                             |
| Calcium Chlorate, 10%    | B                            |               |                                             |
| Calcium Chloride         |                              | A             |                                             |
| Calcium Chloride, 10%    | C                            |               |                                             |
| Calcium Hydroxide, 50%   | B                            |               |                                             |
| Calcium Hypochlorite, 2% | A                            |               | Subject To Pitting                          |
| Calcium Sulfate          | B                            |               |                                             |

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|------------------------------|------------------------------|---------------|-------------------------------------------------------------------|
| Carbolic Acid, 10%           | A                            |               | Subject To Pitting                                                |
| Carbolic Acid, 100%          | B                            |               | Subject To Pitting                                                |
| Carbon Bisulfide             | B                            |               |                                                                   |
| Carbon Disulfide             |                              | A             |                                                                   |
| Carbon Monoxide              | A                            |               |                                                                   |
| Carbon Tetrachloride         | B                            | A             | Elevated Temperatures Reduce Resistance (Teflon)                  |
| Carbonated Water             | A                            |               |                                                                   |
| Carbonic Acid                | B                            |               |                                                                   |
| Cetane                       |                              | A             |                                                                   |
| Chlorabenzol Concentrate     | A                            |               |                                                                   |
| Chloric Acid                 | C                            |               |                                                                   |
| Chlorinated Water, Saturated | B                            |               | Subject To Pitting                                                |
| Chlorine                     |                              | A             |                                                                   |
| Chlorine Gas                 | B                            |               |                                                                   |
| Chlorine, Anhydrous          |                              | A             |                                                                   |
| Chloroform                   | A                            | A             |                                                                   |
| Chlorosulfonic Acid          |                              | A             |                                                                   |
| Chromic Acid                 |                              | A             |                                                                   |
| Chromic Acid, 10%            | B                            |               |                                                                   |
| Chromic Acid, 40% Conc.      | B                            |               | Be Cautious When Using With Tubing & Frits; Room Temperature Only |
| Chromic Acid, 5%             | A                            |               |                                                                   |
| Chromic Acid, 50%            | B                            |               | Elevated Temperatures May Reduce Resistance                       |
| Chromic Acid, 70%            | B                            |               | Elevated Temperatures May Reduce Resistance                       |
| Cider                        | A                            |               |                                                                   |
| Citric Acid, 10%             | B                            |               |                                                                   |
| Citric Acid, 100%            | B                            |               |                                                                   |
| Citric Acid, 5% Still        | A                            |               |                                                                   |
| Coffee                       | A                            |               |                                                                   |
| Copper Acetate, 10%          | A                            |               | Elevated Temperatures May Reduce Resistance                       |
| Copper Carbonate, 10%        | B                            |               |                                                                   |
| Copper Chloride, 1%          | A                            |               | Subject To Pitting                                                |
| Copper Chloride, 5% Aerated  | C                            |               | Subject To Pitting                                                |
| Copper Cyanide, 10%          | A                            |               |                                                                   |
| Copper Cyanide, 100%         | B                            |               |                                                                   |
| Copper Nitrate               | A                            |               |                                                                   |
| Copper Sulfate, 10%          | A                            |               |                                                                   |
| Copper Sulfate, 100%         | B                            |               |                                                                   |
| Creosote                     | A                            |               |                                                                   |
| Creosote Oil                 | B                            |               |                                                                   |
| Cresol (o-)                  |                              | A             |                                                                   |
| Cyanogen Gas                 | B                            |               |                                                                   |
| Cyclohexane                  |                              | A             |                                                                   |
| Cyclohexanone                |                              | A             | Room Temperature Only                                             |
| Detergents                   |                              | A             |                                                                   |
| Developing Solutions         | A                            |               |                                                                   |
| Dibutyl Phthalate            |                              | A             | Room Temperature Only                                             |
| Dibutyl Sebacate             |                              | A             |                                                                   |
| Diethyl Carbonate            |                              | A             |                                                                   |
| Diisobutyl Adipate           |                              | A             |                                                                   |
| Dimethyl Ether               |                              | A             |                                                                   |
| Dimethyl Formamide (DMF)     |                              | A             | Room Temperature Only                                             |

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|----------------------------|------------------------------|---------------|---------------------------------------------|
| Dimethyl Hydrazine, unsym. |                              | A             |                                             |
| Dimethyl Sulfoxide         |                              | A             |                                             |
| Dimethylphthalate          |                              | A             |                                             |
| Dioxane                    |                              | A             | Room Temperature Only                       |
| Dyewood Liquor             | A                            |               |                                             |
| Epsom Salt                 | A                            |               |                                             |
| Ether, 100%                | A                            |               |                                             |
| Ethyl Acetate              | B                            | A             | Room Temperature Only                       |
| Ethyl Alcohol              |                              | A             |                                             |
| Ethyl Alcohol, 10%         | A                            |               |                                             |
| Ethyl Alcohol, 100%        | A                            |               | Elevated Temperatures May Reduce Resistance |
| Ethyl Alcohol, 40%         | A                            |               | Elevated Temperatures May Reduce Resistance |
| Ethyl Chloride, Dry        | A                            |               |                                             |
| Ethyl Ether                |                              | A             |                                             |
| Ethyl Glycol               | B                            |               |                                             |
| Ethyl Hexoate              |                              | A             |                                             |
| Ethylene Bromide           |                              | A             |                                             |
| Ethylene Chloride          | A                            |               |                                             |
| Ethylene Dichloride        | B                            |               | Room Temperature Only                       |
| Ethylene Glycol            |                              | A             |                                             |
| Ethylenediamine            |                              | A             |                                             |
| Ferric Chloride            |                              | A             |                                             |
| Ferric Chloride, 1%        | A                            |               | Subject To Pitting                          |
| Ferric Chloride, 5%        | C                            |               | Subject To Pitting                          |
| Ferric Hydroxide           | A                            |               |                                             |
| Ferric Nitrate, 10%        | B                            |               |                                             |
| Ferric Nitrate, 5%         | A                            |               |                                             |
| Ferric Phosphate           |                              | A             |                                             |
| Ferric Sulfate, 10%        | A                            |               | Elevated Temperatures May Reduce Resistance |
| Ferric Sulfate, 100%       | B                            |               |                                             |
| Ferrous Chloride           | C                            |               | Room Temperature Only                       |
| Ferrous Sulfate            | B                            |               |                                             |
| Fluorine                   | A                            |               |                                             |
| Fluoronaphthalene          |                              | A             |                                             |
| Fluoronitrobenzene         |                              | A             |                                             |
| Formaldehyde               | A                            | A             |                                             |
| Formic Acid                |                              | A             |                                             |
| Formic Acid, 5%            | A                            |               |                                             |
| Formic Acid, 75%           | B                            |               |                                             |
| Freon 113                  |                              | A             | Only Tested To 47 Degrees C                 |
| Furane                     |                              | A             |                                             |
| Furfural                   | B                            |               |                                             |
| Gallic Acid, 100%          | B                            |               |                                             |
| Gallic Acid, 5%            | A                            |               |                                             |
| Gasoline                   |                              | A             | Room Temperature Only                       |
| Gasoline                   | A                            |               |                                             |
| Gelatin                    | A                            |               |                                             |
| Glycerin, 10%              | A                            |               |                                             |
| Glycerin, 100%             | B                            |               |                                             |
| Hexachloroethane           |                              | A             |                                             |
| Hexane                     |                              | A             | Room Temperature Only                       |
| Hydrazine                  |                              | A             |                                             |

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|--------------------------|------------------------------|---------------|---------------------------------------------|
| Hydrochloric Acid        | C                            | A             |                                             |
| Hydrocyanic Acid         | B                            |               |                                             |
| Hydrofluoric Acid        |                              | A             |                                             |
| Hydrofluosilic Acid      | C                            |               |                                             |
| Hydrogen Peroxide        |                              | A             |                                             |
| Hydrogen Peroxide, 100%  | B                            |               |                                             |
| Hydrogen Peroxide, 30%   | A                            |               | Elevated Temperatures May Reduce Resistance |
| Hydrogen Sulfide, 100%   | B                            |               |                                             |
| Hydrogen Sulfide, 90%    | A                            |               |                                             |
| Iodine, 80%              | C                            |               |                                             |
| Iodoform                 | A                            |               |                                             |
| Iso-Octane               |                              | A             | Room Temperature Only                       |
| Lactic Acid, 100%        | B                            |               |                                             |
| Lactic Acid, 5%          | A                            |               |                                             |
| Lard                     | A                            |               |                                             |
| Lead                     |                              | A             |                                             |
| Linseed Oil              | A                            |               |                                             |
| Magnesium Chloride       |                              | A             |                                             |
| Magnesium Chloride, 5%   | A                            |               |                                             |
| Magnesium Chloride, 50%  | B                            |               |                                             |
| Magnesium Sulfate, 100%  | B                            |               |                                             |
| Magnesium Sulfate, 30%   | A                            |               |                                             |
| Malic Acid               | B                            |               |                                             |
| Mayonnaise               | A                            |               |                                             |
| Mercuric Chloride        | C                            |               |                                             |
| Mercuric Chloride, 10%   | C                            |               |                                             |
| Mercury                  |                              | A             |                                             |
| Mercury, 100%            | B                            |               |                                             |
| Methacrylic Acid         |                              | A             |                                             |
| Methanol                 |                              | A             |                                             |
| Methyl Alcohol, 100%     | B                            |               |                                             |
| Methyl Methacrylate      |                              | A             |                                             |
| Methylene Chloride       |                              | A             | Only Tested To 40 Degrees C                 |
| Methylethyl Ketone (MEK) |                              | A             |                                             |
| Milk                     | A                            |               |                                             |
| Mineral Oil              |                              | A             |                                             |
| Molasses                 | A                            |               |                                             |
| Motor Oil                |                              | A             |                                             |
| Muriatic Acid            | C                            |               |                                             |
| Mustard                  | A                            |               |                                             |
| Naphtha                  |                              | A             |                                             |
| Naphthalene              |                              | A             |                                             |
| Naphthols                |                              | A             |                                             |
| Naptha, 100%             | B                            |               |                                             |
| Naptha, Crude            | A                            |               |                                             |
| Nickel Chloride, 100%    | B                            |               |                                             |
| Nickel Sulfate, 10%      | A                            |               | Elevated Temperatures May Reduce Resistance |
| Nitric Acid              |                              | A             |                                             |
| Nitric Acid, 10%         | A                            |               | Elevated Temperatures May Reduce Resistance |
| Nitric Acid, 100%        | B                            |               | Elevated Temperatures May Reduce Resistance |
| Nitric Acid, 90%         | A                            |               | Elevated Temperatures May Reduce Resistance |
| Nitric Acid, Fuming      |                              | A             | Room Temperature Only                       |

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| Chemical                          | Rating<br>Stainless<br>Steel | Rating Teflon | Notes                                       |
|-----------------------------------|------------------------------|---------------|---------------------------------------------|
| Nitro-2-Methyl Propanol (2-)      |                              | A             |                                             |
| Nitrobenzene                      |                              | A             | Room Temperature Only                       |
| Nitro-Butanol (2-)                |                              | A             |                                             |
| Nitrogen Tetroxide                |                              | A             |                                             |
| Nitromethane                      |                              | A             |                                             |
| Octadecyl Alcohol (n-)            |                              | A             |                                             |
| Oils, Crude & Vegetable           | A                            |               | May Attack When Sulfuric Acid Is Present    |
| Oleic Acid                        | B                            |               | Room Temperature Only                       |
| Oxalic Acid, 10%                  | B                            |               | Elevated Temperatures May Reduce Resistance |
| Oxalic Acid, 100%                 | C                            |               |                                             |
| Oxalic Acid, 5%                   | A                            |               |                                             |
| Oxalic Acid, 50%                  | B                            |               | Elevated Temperatures May Reduce Resistance |
| Ozone                             |                              | A             | Room Temperature Only                       |
| Paraffin                          | A                            |               |                                             |
| Pentachlorobenzamide              |                              | A             |                                             |
| Perchloroethylene                 |                              | A             | Elevated Temperatures Reduce Resistance     |
| Perfluoroxylene                   |                              | A             |                                             |
| Phenol                            |                              | A             |                                             |
| Phenol, 10%                       | A                            |               |                                             |
| Phenol, 100%                      | B                            |               |                                             |
| Phosphoric Acid                   |                              | A             |                                             |
| Phosphoric Acid, 10%              | B                            |               |                                             |
| Phosphoric Acid, 5%               | A                            |               |                                             |
| Phosphoric Acid, 70%              | B                            |               |                                             |
| Phosphorus Pentachloride          |                              | A             |                                             |
| Phthalic Acid                     |                              | A             |                                             |
| Picric Acid                       | B                            |               |                                             |
| Pinene                            |                              | A             |                                             |
| Piperidene                        |                              | A             |                                             |
| Polyacrylonitrile                 |                              | A             |                                             |
| Potassium Acetate                 |                              | A             |                                             |
| Potassium Bichromate              | B                            |               |                                             |
| Potassium Bromide                 | B                            |               |                                             |
| Potassium Carbonate               | B                            |               |                                             |
| Potassium Chlorate                | A                            |               |                                             |
| Potassium Chloride, 10%           | B                            |               |                                             |
| Potassium Chloride, 5%            | A                            |               |                                             |
| Potassium Ferricyanide, 10%       | B                            |               |                                             |
| Potassium Ferricyanide, 5%        | A                            |               |                                             |
| Potassium Ferrocyanide, 10%       | B                            |               |                                             |
| Potassium Ferrocyanide, 5%        | A                            |               |                                             |
| Potassium Hydroxide               |                              | A             |                                             |
| Potassium Hydroxide, 10%<br>Conc. | B                            |               |                                             |
| Potassium Hydroxide, 100%         | C                            |               |                                             |
| Potassium Hydroxide, 5%           | A                            |               |                                             |
| Potassium Hydroxide, 70%<br>Conc. | C                            |               | Room Temperature Only                       |
| Potassium Nitrate                 | A                            |               |                                             |
| Potassium Nitrate, 100%           | B                            |               | Elevated Temperatures May Reduce Resistance |
| Potassium Oxalate                 | B                            |               |                                             |
| Potassium Permanganate            |                              | A             |                                             |

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|-----------------------------|------------------------------|---------------|---------------------------------------------|
| Potassium Permanganate, 10% | B                            |               |                                             |
| Potassium Sulfate, 10%      | A                            |               | Elevated Temperatures May Reduce Resistance |
| Potassium Sulfide           | B                            |               |                                             |
| Pyridine                    |                              | A             |                                             |
| Pyrogalllic Acid            | B                            |               |                                             |
| Quinine Bisulfate           | B                            |               |                                             |
| Quinine Sulfate             | B                            |               |                                             |
| Rosin                       | B                            |               |                                             |
| Sea Water                   | A                            |               | Subject To Pitting                          |
| Sewage                      | A                            |               | May Attack When Sulfuric Acid Is Present    |
| Silver Chloride             | C                            |               |                                             |
| Silver Nitrate              | B                            |               |                                             |
| Soap                        | A                            |               |                                             |
| Sodium Acetate              | B                            |               |                                             |
| Sodium Bicarbonate          | A                            |               |                                             |
| Sodium Bisulfate, 10%       | A                            |               |                                             |
| Sodium Carbonate, 10%       | B                            |               |                                             |
| Sodium Carbonate, 100%      | B                            |               |                                             |
| Sodium Carbonate, 5%        | A                            |               |                                             |
| Sodium Chloride, 10%        | B                            |               |                                             |
| Sodium Chloride, 5% Still   | A                            |               |                                             |
| Sodium Hydroxide            |                              | A             |                                             |
| Sodium Hydroxide, 30%       | A                            |               | Elevated Temperatures May Reduce Resistance |
| Sodium Hypochlorite         |                              | A             |                                             |
| Sodium Hyposulfite, 100%    | B                            |               |                                             |
| Sodium Nitrate, 40%         | A                            |               |                                             |
| Sodium Nitrate, 50%         | B                            |               |                                             |
| Sodium Peroxide             |                              | A             |                                             |
| Sodium Sulfate, 10%         | A                            |               |                                             |
| Sodium Sulfate, 20%         | B                            |               |                                             |
| Sodium Sulfate, 5%          | A                            |               |                                             |
| Sodium Sulfide, 50%         | B                            |               |                                             |
| Sodium Sulfite, 10%         | A                            |               | Elevated Temperatures May Reduce Resistance |
| Sodium Thiosulfate          | A                            |               |                                             |
| Stannic Chloride            | C                            |               |                                             |
| Stannous Chloride           |                              | A             |                                             |
| Stannous Chloride, 10%      | A                            |               |                                             |
| Stearic Acid                | B                            |               |                                             |
| Sugar Juice                 | A                            |               |                                             |
| Sulfur                      | A                            | A             |                                             |
| Sulfur Chloride             | B                            |               |                                             |
| Sulfur Dioxide, 100%        | B                            |               |                                             |
| Sulfuric Acid               |                              | A             |                                             |
| Sulfuric Acid -- Aerated    | B                            |               | Elevated Temperatures May Reduce Resistance |
| Sulfuric Acid -- Air Free   | B                            |               | Elevated Temperatures May Reduce Resistance |
| Sulfuric Acid, Fuming       |                              | A             | Room Temperature Only                       |
| Sulfurous Acid, 100%        | B                            |               |                                             |
| Sulfuryl Chloride           |                              | A             | Elevated Temperatures Reduce Resistance     |
| Tanic Acid, 100%            | B                            |               |                                             |
| Tartaric Acid, 50%          | B                            |               |                                             |
| Tetrabromoethane            |                              | A             |                                             |
| Tetrachloroethylene         |                              | A             |                                             |

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|-----------------------|------------------------------|---------------|-----------------------|
| Tetrahydrofuran (THF) |                              | A             |                       |
| Tin, Molten           | C                            |               |                       |
| Toluene               |                              | A             |                       |
| Transmission Oil      |                              | A             |                       |
| Tri-Butyl Phosphate   |                              | A             |                       |
| Trichloroacetic Acid  |                              | A             |                       |
| Trichlorethylene      | B                            | A             |                       |
| Tricresyl Phosphate   |                              | A             |                       |
| Tri-n-Butyl Phosphate |                              | A             |                       |
| Varnish               | A                            |               |                       |
| Vegetable Juices      | A                            |               |                       |
| Vinegar               | A                            |               |                       |
| Vinegar Fumes         | A                            |               |                       |
| Vinyl Methacrylate    |                              | A             |                       |
| Water                 |                              | A             |                       |
| Xylene                |                              | A             | Room Temperature Only |
| Zinc Chloride         |                              | A             |                       |
| Zinc Chloride, 50%    | A                            |               | Subject To Pitting    |
| Zinc Sulfate, 30%     | A                            |               |                       |
| Zinc, Molten          | C                            |               |                       |