



Applicable Fluids

Material and Fluid Compatibility Check List for High Purity Fluoropolymer Fittings

Chemical		Compatibility
Acetic acid	100%	<input type="radio"/>
Acetone	100%	<input type="radio"/> Note 1, 2)
Ammonium fluoride	40%	<input type="radio"/>
Ammonium hydroxide	30%	<input type="radio"/>
Butyl acetate	100%	<input type="radio"/>
Methylene chloride	100%	<input type="radio"/>
Hydrochloric acid	38%	<input type="radio"/>
Hydrofluoric acid	50%	<input type="radio"/>
Hydrogen peroxide	60%	<input type="radio"/>
Methanol	100%	<input type="radio"/>
Methyl ethyl ketone	—	<input type="radio"/> Note 2)
Nitric acid	70%	<input type="radio"/> Note 2)
Phosphoric acid	86%	<input type="radio"/>
Caustic potash	85%	<input type="radio"/>
Sulfuric acid	100%	<input type="radio"/> Note 2)
Toluene	—	<input type="radio"/> Note 1, 2)
Xylene	—	<input type="radio"/> Note 2)
Sodium hydroxide	100%	<input type="radio"/> Note 2)
1.1.1-Trichloroethane	100%	<input type="radio"/> Note 2)
Rhosphorus pentachloride	—	<input type="radio"/>
Isobutyl alcohol	—	<input type="radio"/> Note 1)
Isopropyl alcohol	—	<input type="radio"/> Note 1)
Ozone	—	<input type="radio"/>
Ethyl acetate	—	<input type="radio"/> Note 1, 2)
Pure water	—	<input type="radio"/>
Nitrogen	—	<input type="radio"/>
Ultrapure water	—	<input type="radio"/>
Tmah	—	<input type="radio"/> Note 2)

Table symbol : can be used.



The material and fluid compatibility check list provides reference values as a guide only.

Note 1) Since static electricity may be generated, implement suitable countermeasures.

Note 2) Use the nut material made of PFA because the nut material, PVDF can be used depending on the environment or temperature.

- Compatibility is indicated for fluid temperatures of 200°C or less (In the case of the nut material made of PVDF: 150°C or less)
- The material and fluid compatibility check list provides reference values as a guide only, therefore we do not guarantee the application to our product.
- The data above is based on the information presented by the material manufacturers.
- SMC is not responsible for its accuracy and any damage that may occur because of this data.