



# Protective Vents

## CHEMICAL RESISTANCE

### CHEMICAL RESISTANCE OF GORE™ MEMBRANES

GORE™ Membranes, which are used in most GORE® Protective Vents, are based on expanded polytetrafluoroethylene (ePTFE). This fluoropolymer is chemically resistant to almost all industrial chemicals (Table 1). The only substances currently known to

compromise GORE™ Membranes are elemental sodium, other elemental alkali metals, fluorine, metal hydrides in concentrations greater than 80 percent, and amines and imines when exposed at temperatures exceeding 260 °C (500 °F).

**TABLE 1: GORE™ MEMBRANE RESISTANCE TO CHEMICALS**

Acetic, 5 %	Dioxane	Methylene Chloride
Acetic, Glacial	DMSO	Nitric, 6N
Acetone	Ethanol, 98 %	Nitric, Concentrated
Acetonitrile	Ethyl Acetate	Nitrobenzene
Acetonitrile (Methyl Cyanide)	Ethyl Alcohol	n-Propanol
Ammonia	Ethyl Ether	Pentane
Ammonium Hydroxide, 6N	Ethylene Glycol	Petroleum Base Oils
Amyl Acetate	Formaldehyde	Phenol, 10 %
Amyl Alcohol	Formic, 25%	Phosphoric, 25 %
Aniline	Freon	Polyalcohols
Benzaldehyde	Gasoline	Propylene Glycol
Benzene	Glycerol	Propylene Glycol Acetate
Benzyl Alcohol	Hexane / Xylene	Pyridine
Benzyl Benzoate	Hydrochloric, 6N	Mineral Oils
Boric Acid	Hydrochloric, Concentrated	Silicone Oils
Butyl Acetate	Hydrofluoric Acid	Sodium Hydroxide
Butyl Alcohol	Hydrogenperoxide, 85 %	Sodium Hypochlorite (Bleach)
Butyl Chloride	Isobutyl Alcohol	Sulfuric, 25 %
Carbon Tetrachloride	Isopropanol	Sulfuric, Concentrated
Chlorine	Isopropyl Acetate	Tetrahydrofuran
Chlorobenzene (Mono)	Isopropyl Ether	Tetralin, Decalin
Chloroform	Isopropyl Myristate	Toluene
Citric Acid, 0.7 %	Isopropylacetone	Trichloroacetic, 10 %
Cresol	Kerosene, Gasoline	Trichloroethane
Cyclohexanone	Methanol	Trichloroethylene
Detergents & Soaps	Methyl Acetate	Tricresyl Phosphate
Diethylacetamide	Methyl Cellosolve Acetate	Water
Dimethyl Formamide	Methyl Ethyl Ketone	Xylene
Dimethyl Sulfoxide (DMSO)	Methyl Isobutyl Ketone (MIBK)	

GORE® Protective Vents include GORE™ Membranes that are incorporated into plastic housings to provide additional protection. Therefore, when evaluating chemical resistance of the vent, you should test it against all possible combinations

of chemicals at the temperatures at which your device is intended to be used. If you have any questions, please contact your regional Gore representative.



# Protective Vents

CHEMICAL RESISTANCE

## About W. L. Gore & Associates, Inc.

Gore is a technology-driven company focused on discovery and product innovation. Well known for waterproof, breathable GORE-TEX® fabric, the company’s portfolio includes everything from high-performance fabrics and implantable medical devices to industrial manufacturing components and aerospace electronics. Founded in 1958 and headquartered in Newark, Delaware, Gore employs more than 10,000 associates with manufacturing facilities

in the United States, Germany, the United Kingdom, Japan and China, and sales offices around the world. Gore is one of a select few companies to appear on all of the U.S. “100 Best Companies to Work For” lists since the rankings debuted in 1984. The company also appears regularly on similar lists around the world. Learn more at [gore.com](http://gore.com).

## INTERNATIONAL CONTACTS

Australia	+61 2 9473 6800	Mexico	+52 81 8288 1281
Benelux	+49 89 4612 2211	Scandinavia	+46 31 706 7800
Brazil	+55 11 5502 7800	Singapore	+65 6733 2882
China	+86 21 5172 8299	South Africa	+27 11 894 2248
France	+33 1 5695 6565	South America	+55 11 5502 7800
Germany	+49 89 4612 2211	Spain	+34 93 480 6900
India	+91 22 6768 7000	Taiwan	+886 2 2173 7799
Italy	+39 045 6209 240	United Kingdom	+44 1506 460123
Japan	+81 3 6746 2572	USA	+1 410 392 4440
Korea	+82 2 393 3411		

## FOR INDUSTRIAL USE ONLY. Not for use in food, drug, cosmetic or medical device manufacturing, processing, or packaging operations.

All technical information and recommendations given here are based on Gore’s previous experiences and/or test results. Gore gives this information to the best of its knowledge, but assumes no legal responsibility. Customers should check the suitability and usability in the specific application, since the performance of the product can only be judged when all necessary operating data are available. The above information is subject to change and is not to be used for specification purposes.

Gore’s terms and conditions of sale apply to the sale of the products by Gore.

GORE and designs are trademarks of W. L. Gore & Associates.

© 2014 W. L. Gore & Associates, Inc.

## W. L. Gore & Associates, Inc.

401 Airport Road • Elkton, MD 21921 • USA

Phone: +1 410 506 7812 (USA) • Toll-free: +1 800 523 4673 (USA)

Fax: +1 410 506 8749 • Email: [protectivevents@wlgore.com](mailto:protectivevents@wlgore.com)

[gore.com/protectivevents](http://gore.com/protectivevents)

