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.

About Gore

W. L. Gore & Associates is a global materials science company dedicated to transforming industries and improving lives. Since 1958, Gore has solved complex technical challenges in demanding environments — from outer space to the world's highest peaks to the inner workings of the human body. With approximately 13,000 Associates and a strong, team-oriented culture, Gore generates annual revenues of $5 billion.

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Gore's Performance Solutions Division address complex product and process challenges in a variety of markets, including aerospace & defense, automotive, industrial, electronics, semiconductor and more. By focusing on collaboration and innovation, Gore partners with customers to design their products and processes to be safer, cleaner, more productive, reliable, durable and efficient across a wide range of demanding environments.

Learn more at gore.com/protectivevents.

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GORE® Protective Vent(s) are manufactured under the generic industrial ISO 9001 quality system and the ISO 14001 environmental management system. No other certifications can be provided by Gore for this GORE® Protective Vent. All technical information given is 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 are asked to 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.

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