CHEMICAL RESISTANCE

VICTREX PEEK Polymers





PASSION • INNOVATION • PERFORMANCE

CHEMICAL RESISTANCE

VICTREX PEEK Polymers



Chemical	73°F 23°C	212°F 100°C	392°F 200°C
ACIDS			
Acetic Acid, 10% Conc.	Α	Α	
Acetic Acid, Conc.	Α	Α	Α
Acetic Acid, Glacial	Α	Α	
Acrylic Acid	Α	Α	
Aqua Regia	C	C	C
Benzene Sulfonic Acid	C		
Benzoic Acid	Α	Α	
Boric Acid	Α	А	
Carbolic Acid	Α		
Carbonic Acid	А	Α	
Chloroacetic Acid	Α	Α	
Chlorosulfonic Acid	C	C	С
Chromic Acid, 40% Conc.	Α		
Chromic Acid, Conc.	С	С	С
Citric Acid	Α	Α	
Formic Acid	В	В	
Hydrobromic Acid	С	С	С
Hydrochloric Acid, 10% Conc.	А	Α	
Hydrochloric Acid, Conc.	Α	В	
Hydrocyanic Acid	Α	Α	
Hydrofluoric Acid, 40% Conc.	С	С	С
Lactic Acid	А	Α	
Maleic Acid	А	Α	
Nitric Acid, 10% Conc.	А	Α	
Nitric Acid, 30% Conc.	В		
Nitric Acid, 50% Conc.	С	С	С
Nitric Acid, Conc.	С	С	С
Nitrous Acid, 10% Conc.	А		
Oleic Acid	Α		
Oleum	С	С	С
Oxalic Acid	А	Α	
Perchloric Acid	Α	Α	
Phosphoric Acid, 10% Conc.	А	Α	Α
Phosphoric Acid, 50% Conc.	А	Α	А
Phosphoric Acid, 80% Conc.	Α	Α	
Phthalic Acid	А	Α	
Picric Acid	А	Α	
Silicic Acid	А	Α	
Sulfuric Acid, < 40% Conc.	В	В	В
Sulfuric Acid, > 40% Conc.	С	С	С
Sulfurous Acid	Α	Α	
Tannic Acid, 10% Conc.	Α	Α	
Tartaric Acid	Α	Α	
Trifluoromethyl Sulfonic Acid	С	С	С

Chemical	73°F 23°C	212°F 100°C	392°F 200°C
ALCOHOLS			
Benzyl Alcohol	Α		
Butanol	Α		
Cyclohexanol	Α		
Ethanol	Α	Α	
Ethylene Glycol	Α	Α	В
Ethylene Glycol, 50% Conc.	Α	Α	Α
Glycerol	Α		
Gylcols	Α	Α	
Isopropanol	Α		
Methanol	Α	Α	
Propanol	Α		
ALDEHYDES AND KETON	E S		
Acetaldehyde	Α	Α	
Acetone	Α	Α	
Benzaldehyde	Α		
Cyclohexanone	Α		
Formaldehyde	Α	Α	
Formalin	Α		
Ketones	Α		
Methylethyl Ketone (MEK)	Α	В	С
N-Methyl-2-Pyrrolidone (NMP)	Α		
BASES			
Ammonia 880	Α		
Ammonia Anhydrous	Α	Α	А
Ammonia Liquid	Α	Α	А
Ammonium Hydroxide, 10% Conc.	Α		
Ammonium Hydroxide, Conc.	Α		
Calcium Hydroxide	Α		
Hydrazine	Α	Α	
Hydroxides	Α		
Magnesium Hydroxide	Α		
Potassium Hydroxide, 10% Conc.	А		
Potassium Hydroxide, 70% Conc.	Α		
Sodium Hydroxide, 10% Conc.	Α	Α	Α
Sodium Hydroxide, 50% Conc.	Α	Α	Α
Sodium Hydroxide, Conc.	Α		
ESTERS			
Aliphatic Esters	Α	Α	
Amyl Acetate	Α	А	
Butyl Acetate	Α		
Dibutyl Phthalate	Α		
Dimethyl Phthalate	Α		
Dioctyl Phthalate	Α		
Ethyl Acetate	Α		
Oils (Di-Ester and Phosphate	Α	Α	
Ester Based)	_ A	_ A	

Chemical	73°F 23°C	212°F 100°C	392°F 200°C
ETHERS			
Diethylether	Α	Α	
Dioxane	Α		
Ether	Α	Α	
Ethylene Oxide (EtO)	Α		
Tetrahydrofuran (THF)	А		
HALOGENATED ORGANIC	S		
1,1,1 Trichloroethane (Genklene¹)	Α		
1,2 Dichloroethane	Α		
Carbon Tetrachloride	Α	Α	
Chorobenzene	Α	Α	
Chloroform	A	A	
Dibromoethane	Α	, ,	
Dichlorobenzene	A		
Dichloroethane	A		
Ethylene Dichloride	A		
Freon ² 11 Trichlorofluoromethane	, ,		
	A		
Freon 113 Trichlorotrifluoroethane	Α		
Freon 114 1,1 Dichloro 1,2,2,2 Tetrafluoroethane	Α		
Freon 12 Dichlorodifluoromethane	Α		
Freon 22 Chlorodifluoromethane	Α	Α	
Freon 134a	Α		
Freon 502	Α	Α	
Methylene Chloride	Α		
Perchloroethylene	Α	Α	
Trichloroethylene	Α	Α	
HYDROCARBONS			
Acetylene	Α	Α	
Aromatic Solvents	Α	Α	
Aviation Hydraulic Fluid	Α		
Benzene	А	Α	
Brake Fluid (Mineral)	Α	Α	Α
Brake Fluid (Polyglycol)	Α	Α	Α
Butane	Α		
Crude Oil	Α		
Cyclohexane	A	Α	
Diesel Oil	Α	/\	
Dowtherm ³ A			С
Dowtherm G			В
Dowtherm HT			В
Dowtherm LF			В
Ethane	۸		D
Fuel Oil	A		
	A		
Gas (Manufactured)			
Gas (Natural)	A	Δ.	
Gasoline	A	Α	
Heptane	A		
Hexane	A		
Hydraulic Fluid	Α		
Iso-Octane	Α		

Chemical	73°F	212°F	392°F
	23°C	100°C	200°C

	23°C	100°C	200°C
HYDROCARBONS (CONT.))		
Kerosene	А		
Lubricating Oil	Α		
Methane (Gas)	Α	Α	Α
Motor Oil	Α	Α	Α
Naphtha	Α	Α	
Naphthalene	Α	Α	
Oils (Petroleum)	Α	Α	
Oils (Vegetable)	Α	Α	
Pentane	Α		
Petroleum Ether	А		
Propane	А		
Skydrol⁴ Hydraulic Fluid	А		
Styrene (Liquid)	Α		
Toluene	Α		
Transformer Oil	А	А	
Vaseline⁵	Α		
Xylene	Α		
INORGANICS			
Aluminum Chloride	Α	Α	
Aluminum Sulfate	Α	Α	
Alum, Saturated	Α	Α	
Ammonium Chloride, 10% Conc.	Α	Α	
Ammonium Nitrate	A	A	
Antimony Trichloride	Α	Α	
Barium Salts (Chloride, Sulfide)	A	, ,	
Bleach	A	Α	
Brine	A	Α	
Bromine	C	C	С
Bromine (Dry)	C	C	C
Bromine (Wet)	С	С	С
Bromine Water, Saturated	A	A	
Calcium Bisulfide	A	A	
Calcium Carbonate	A	, (
Calcium Chloride	A	Α	
Calcium Hypochlorite	A	A	
Calcium Nitrate	A		
Calcium Sulfate	A	Α	
Carbon Dioxide (Dry)	A		
Carbon Monoxide (Gas)	A	А	Α
Chlorine (das)	C	C	C
Copper Acetate	A	A	C
Copper Carbonate	A	A	
• •	A	A	
Copper Chloride			
Copper Cyanide	A	A	
Copper Fluoride	A	A	
Copper Nitrate	A	A	
Copper Sulfate	A	A	
Cupric Fluoride	A	A	
Cupric Sulfate	A	A	
Cuprous Chloride	Α	Α	

Ethylene Nitrate Ferric Chloride Ferric Oxide Ferric Oxide Ferric Oxide Ferric Oxide Ferric Oxide Ferric Sulfate Ferric Sulfate Ferric Sulfate Ferrous Chloride Ferrous Nitrate Ferrous Sulfate A Hydrogen Sulfide (Gas) A A A Hydrogen Sulfide (Gas) A A A Magnesium Chloride A A Magnesium Chloride A Mercuric Chloride A Mercurous Chloride A Mercury A A Nickel Acetate A Nickel A Nickel Sulfate A Nickel Sulfate A Nickel Sulfate A Nitrogen A Nitrogen A Nitrogen A Nitrous Oxide Oxygen A Ozone A Phosphorous Chlorides A Phosphorous Pentoxide A Potassium Bicarbonate A Potassium Chloride A Potassium Chloride A Potassium Chloride A Potassium Chloride A Potassium Ferricyanide A Potassium Ferricyanide A Potassium Ferrocyanide A Potassium Sulfate A Potassium Sulfate A Potassium Pydroxide A Potassium Sulfate A Potassium Sulfate A Potassium Sulfate A Potassium Sulfate A Potassium Pydroxide A Potassium Pydroxide A Potassium Sulfate A Potassi	Chemical	73°F 23°C	212°F 100°C	392°F 200°C
Ferric Chloride	INORGANICS (CONT.)			
Ferric Nitrate Ferric Oxide Ferric Sulfate Ferrous Chloride Ferrous Nitrate Ferrous Sulfate A Hydrogen Peroxide A Hydrogen Sulfide (Gas) A A Iodine B Lead Acetate A A Iodine B Lead Acetate A A A Magnesium Chloride A A Magnesium Sulfate A A Mercuric Chloride A Mercurous Chloride A Mercury A Nickel Acetate A Nickel Acetate A Nickel Chloride A Nickel Sulfate A Nickel Sulfate A Nitrogen A Nitrous Oxide A Oxygen A Ozone A Phosphorous Chlorides A Phosphorous Chlorides A Potassium Bicarbonate A Potassium Bromide A Potassium Bromide A Potassium Carbonate A Potassium Ferricyanide A Potassium Ferricyanide A Potassium Permanganate A Potassium Sulfate A A Potassium Permanganate A Potassium Sulfate A A Potassium Permanganate A Potassium Sulfate A A Potassium Sulfate A A Potassium Permanganate A Potassium Sulfate A A Potassium Sulfate A A Potassium Permanganate A Potassium Sulfate A A Potassium Permanganate A Potassium Sulfate A A A A Potassium Sulfate A A A A A A A A A A A A A A A A A A A	Ethylene Nitrate	Α		
Ferric Oxide Ferric Sulfate Ferrous Chloride Ferrous Nitrate Ferrous Sulfate A Ferrous Sulfate A Fusian A A Fluorine C C C C C C C Hydrogen Peroxide A A A A Iodine B Lead Acetate A Lime A A Magnesium Chloride A A Magnesium Sulfate A A Magnesium Sulfate A A Mercuric Chloride A A Mercuric Chloride A A Mickel Acetate A A Nickel Acetate A A Nickel Sulfate A A Nickel Sulfate A Nickel Sulfate A Nitrogen A Nitrous Oxide Oxygen Ozone A B Phosphorous Chlorides A A Phosphorous Pentoxide A Potassium Aluminum Sulfate A Potassium Bromide A Potassium Chlorate A Potassium Chlorate A Potassium Chlorate A Potassium Ferricyanide A Potassium Ferricyanide A Potassium Ferricyanide A Potassium Hydroxide A Potassium Ferrocyanide A Potassium Ferrocyanide A Potassium Sulfate A A Potassium Hydroxide A Potassium Sulfate A A A Potassium Sulfate A A A Potassium Sulfate A A A A A A A A A A A A A A A A A A A	Ferric Chloride	В	В	
Ferric Sulfate A Ferrous Chloride A Ferrous Nitrate A Ferrous Sulfate A Fluorine C C C C C C C Hydrogen Peroxide A A Hydrogen Sulfide (Gas) A I I I I I I I I I I I I I I I I I I I	Ferric Nitrate	Α		
Ferrous Chloride Ferrous Nitrate Ferrous Sulfate A Fluorine C C C C C C C Hydrogen Peroxide A A A Hydrogen Sulfide (Gas) A B Lead Acetate A Lime A A Magnesium Chloride A Magnesium Sulfate A A Mercuric Chloride A Mercurous Chloride A Mercurous Chloride A Mickel Acetate A Nickel Acetate A Nickel A Nickel Sulfate A Nickel Sulfate A Nickel Sulfate A Nitrogen A Nitrous Oxide Oxygen Ozone A Phosphorous Chlorides A Phosphorous Pentoxide A Potassium Aluminum Sulfate A Potassium Bicarbonate A Potassium Carbonate A Potassium Carbonate A Potassium Ferricyanide A Potassium Ferricyanide A Potassium Ferricyanide A Potassium Hydroxide A Potassium Sulfate A Potassium Sulfat	Ferric Oxide	Α	Α	
Ferrous Nitrate Ferrous Sulfate Ferrous Sulfate Fluorine C C C Hydrogen Peroxide A A Hydrogen Sulfide (Gas) A A Iodine B Lead Acetate A A Lime A A Magnesium Chloride A A Mercuric Chloride A A Nickel Acetate A A Nickel Acetate A A Nickel Acetate A A Nickel Sulfate A A Nickel Sulfate A A Nitrous Oxide Oxygen Ozone A B Phosphorous Chlorides A A Potassium Bicarbonate A Potassium Chloride A A Potassium Ferricyanide A A Potassium Hydroxide A A Potassium Hydroxide A A Potassium Sulfate A A Potassium Hydroxide A A Potassium Sulfate A A Potassium Hydroxide A A Potassium Permanganate A Potassium Sulfate A A Potassium Persanganate A Potassium Sulfate A A Potassium Hydroxide A A Potassium Hydroxide A A Potassium Permanganate A Potassium Sulfate A A Potassium Permanganate A Potassium Sulfate A A Potassium Hydroxide A A Potassium Sulfate A A Potassium Hydroxide A A Potassium Permanganate A Potassium Sulfate A A Potassium Sulfate A A Potassium Sulfate A A Potassium Hydroxide A A Potassium Hydroxide A A Potassium Sulfate A A Potassium		Α		
Ferrous Sulfate	Ferrous Chloride	Α		
Fluorine C C C C Hydrogen Peroxide A A A A A A A A A A A A A A A A A A A	Ferrous Nitrate	Α		
Hydrogen Peroxide Hydrogen Sulfide (Gas) A A A A A A A A A A A A A A A A A A A	Ferrous Sulfate	Α	Α	
Hydrogen Sulfide (Gas) Iodine Lead Acetate Lime A Magnesium Chloride A Mercuric Chloride Mercury A Nickel Acetate A Nickel Salts Nitrogen A Nitrous Oxide Oxygen Ozone Phosphorous Chlorides A A A B Potassium Bicarbonate A Potassium Ferricyanide Potassium Ferricyanide Potassium Ferricyanide Potassium Sulfate A A A A A A A A A A A A A A A A A A	Fluorine	C	C	C
Iodine Lead Acetate Lime A A Magnesium Chloride A A Mercuric Chloride A A Mercury A A Nickel Acetate A A Nickel Salts Nitrogen A A Nitrous Oxide Ozone Phosphorous Chlorides A A Potassium Bicarbonate Potassium Chlorate A A Potassium Chloride A A Potassium Ferricyanide Potassium Ferrocyanide Potassium Permanganate Potassium Sulfate A A Potassium Sulfate A A Potassium Permanganate Potassium Permanganate A Potassium Sulfate A A Potassium Sulfate A A Potassium Permanganate A Potassium Permanganate A Potassium Sulfate A A Potassium Permanganate A Potassium Permanganate A Potassium Permanganate A Potassium Sulfate A A Potassium Permanganate A Potassium Permanganate A Potassium Sulfate A A Potassium Permanganate A Potassium Permanganate A Potassium Sulfate A A Potassium Sulfate A A Potassium Permanganate A Potassium Permanganate A Potassium Sulfate A A Potassium Sulfate A A Potassium Sulfate A A Potassium Permanganate A Potassium Sulfate A A A A Potassium Sulfate A A A A A A A A A A A A A	Hydrogen Peroxide	Α	Α	
Lead Acetate	Hydrogen Sulfide (Gas)	Α	Α	Α
Lime A A A A A A A A A A A A A A A A A A A	Iodine	В		
Magnesium Chloride Magnesium Sulfate Mercuric Chloride Mercurous Chloride Mercury A Nickel Acetate A Nickel Chloride A Nickel Salts A Nitrogen A Nitrous Oxide Oxygen Ozone Phosphorous Chlorides A Potassium Bicarbonate Potassium Carbonate Potassium Hydroxide Potassium Hydroxide Potassium Ferricyanide Potassium Permanganate A Potassium Sulfate A A A A A A A A A A A A A	Lead Acetate	Α	Α	
Magnesium Sulfate A	Lime	Α	Α	
Mercuric Chloride	Magnesium Chloride	Α	Α	
Mercury A A A Nickel Acetate A A Nickel Chloride A A Nickel Nitrate A A Nickel Salts A Nickel Sulfate A A Nitrogen A Nitrous Oxide A Oxygen A Ozone A B Phosphorous Chlorides A A Photassium Aluminum Sulfate A Potassium Bicarbonate A Potassium Carbonate A Potassium Chloride A Potassium Chloride A Potassium Ferricyanide A Potassium Ferricyanide A Potassium Hydroxide A Potassium Hydroxide A Potassium Permanganate A Potassium Permanganate A Potassium Sulfate A Potassium Permanganate A Potassium Sulfate A Potassium Ferricyanide A Potassium Ferrocyanide A Potassium Ferrocyanide A Potassium Permanganate A Potassium Sulfate A Potassium Sulfate A Potassium Permanganate A Potassium Sulfate A Potassium Sulfat	Magnesium Sulfate	Α	Α	
Mercury Nickel Acetate Nickel Chloride A Nickel Nitrate A Nickel Salts Nickel Sulfate A Nitrogen Nitrous Oxide Oxygen Ozone A Phosphorous Chlorides A Potassium Bicarbonate A Potassium Carbonate A Potassium Dichromate A Potassium Ferricyanide A Potassium Hydroxide A Potassium Nitrate A Potassium Permanganate A Potassium Sulfate A A Potassium Permanganate A Potassium Sulfate A A A A A A A A A A A A A	Mercuric Chloride	А	Α	
Nickel Acetate A A A A Nickel Chloride A A A A Nickel Nitrate A A A A Nickel Salts A Nickel Sulfate A A A Nitrogen A A Nitrous Oxide A A A Nitrous Oxide A A A A Nitrous Oxide A A A A Nitrous Oxide A A A A A A A A A A A A A A A A A A A	Mercurous Chloride	Α		
Nickel Chloride Nickel Nitrate Nickel Salts Nickel Sulfate Nitrogen Nitrous Oxide Oxygen Ozone A Phosphorous Chlorides Phosphorous Pentoxide Potassium Aluminum Sulfate A Potassium Carbonate A Potassium Chlorate A Potassium Chloride A Potassium Ferricyanide A Potassium Ferricyanide A Potassium Hydroxide A Potassium Nitrate A Potassium Sulfate A Potassium Hydroxide A Potassium Hydroxide A Potassium Sulfate A Potassium Permanganate A Potassium Sulfate A A Potassium Sulfate A A Potassium Sulfate A A Potassium Sulfate A Sodium Acetate A Sodium Acetate A Sodium Carbonate A A	Mercury	Α	Α	
Nickel Nitrate Nickel Salts A Nickel Sulfate A Nitrogen A Nitrous Oxide A Oxygen A Ozone A Phosphorous Chlorides A Potassium Aluminum Sulfate A Potassium Bicarbonate A Potassium Carbonate A Potassium Chloride A Potassium Chloride A Potassium Ferricyanide A Potassium Ferricyanide A Potassium Ferricyanide A Potassium Hydroxide A Potassium Nitrate A Potassium Nitrate A Potassium Sulfate A A Potassium Ferrocyanide A Potassium Sulfate A A Potassium Nitrate A A Potassium Sulfate A A Potassium Sulfate A A Potassium Sulfate A A Potassium Sulfate A A Sodium Acetate Sodium Acetate A Sodium Carbonate A Sodium Carbonate A A A A A A A A A A A A A A A A A A A	Nickel Acetate	Α	Α	
Nickel Salts Nickel Sulfate A Nitrogen A Nitrous Oxide Oxygen A Ozone A Phosphorous Chlorides A Phosphorous Pentoxide A Potassium Aluminum Sulfate A Potassium Bicarbonate A Potassium Carbonate A Potassium Chlorate A Potassium Chlorate A Potassium Ferricyanide A Potassium Ferricyanide A Potassium Hydroxide A A Potassium Nitrate A Potassium Permanganate A Potassium Sulfate A A A Potassium A A A A A A B B A A A A A B B A A A B B A A A B B B A A A B B B B A A A A B B B B B A A A A B	Nickel Chloride	Α	Α	
Nickel Sulfate Nitrogen Nitrous Oxide Oxygen Ozone Phosphorous Chlorides Phosphorous Pentoxide Potassium Aluminum Sulfate Potassium Bicarbonate A Potassium Carbonate A Potassium Chlorate A Potassium Chlorate A Potassium Ferricyanide A Potassium Ferricyanide A Potassium Hydroxide A Potassium Nitrate A Potassium Sulfate A A Potassium Nitrate A A Potassium Sulfate A A Potassium Nitrate A A Potassium Sulfate A Potassium Sulfate A Potassium Sulfate A Sodium Acetate Sodium Bicarbonate A Sodium Carbonate A A	Nickel Nitrate	Α	Α	
Nitrogen Nitrous Oxide Oxygen Ozone A B Phosphorous Chlorides A Phosphorous Pentoxide A Potassium Aluminum Sulfate A Potassium Bicarbonate A Potassium Carbonate A Potassium Chlorate A Potassium Chlorate A Potassium Ferricyanide A Potassium Ferricyanide A Potassium Ferrocyanide A Potassium Nitrate A Potassium Nitrate A Potassium Sulfate A A Potassium Permanganate A Potassium Sulfate A A Silver Nitrate A A Sodium Acetate A Sodium Bicarbonate A Sodium Carbonate A A A	Nickel Salts	Α		
Nitrous Oxide Oxygen Ozone A B Phosphorous Chlorides Phosphorous Pentoxide Potassium Aluminum Sulfate Potassium Bicarbonate Potassium Bromide A Potassium Carbonate A Potassium Chlorate A Potassium Chlorate A Potassium Ferricyanide A Potassium Ferrocyanide A Potassium Nitrate A Potassium Nitrate A Potassium Sulfate A A Potassium Sulfate A A Potassium Sulfate A A Potassium Sulfate A A A Potassium Sulfate A A A Potassium Sulfate A A Potassium Sulfate A A A A Potassium Sulfate A A A Potassium Sulfate A A A A Potassium Sulfate A A A A Potassium Sulfate A A A Potassium Sulfate A A A A Potassium Sulfate A A A A A A A A A A A A A	Nickel Sulfate	Α	Α	
Oxygen A B Phosphorous Chlorides A A Phosphorous Pentoxide A A Potassium Aluminum Sulfate A A Potassium Bicarbonate A Potassium Bromide A A Potassium Carbonate A Potassium Carbonate A Potassium Chlorate A A Potassium Dichromate A Potassium Ferricyanide A Potassium Ferricyanide A Potassium Hydroxide A Potassium Nitrate A Potassium Permanganate A Potassium Sulfate A Sodium Acetate A Sodium Acetate A Sodium Bicarbonate A	Nitrogen	Α		
Ozone A B Phosphorous Chlorides A A Phosphorous Pentoxide A A Potassium Aluminum Sulfate A A Potassium Bicarbonate A Potassium Bromide A A Potassium Carbonate A Potassium Chlorate A A Potassium Chlorate A A Potassium Dichromate A Potassium Ferricyanide A Potassium Ferricyanide A Potassium Hydroxide A A Potassium Nitrate A A Potassium Permanganate A Potassium Sulfate A Potassium Sulfate A Silicone Fluids A Sodium Acetate A Sodium Carbonate A	Nitrous Oxide	А		
Phosphorous Chlorides Phosphorous Pentoxide A Potassium Aluminum Sulfate A Potassium Bicarbonate A Potassium Bromide A A Potassium Carbonate A Potassium Chlorate A Potassium Chlorate A Potassium Dichromate A Potassium Ferricyanide A Potassium Ferrocyanide A Potassium Hydroxide A Potassium Nitrate A Potassium Permanganate A Potassium Sulfate A Silicone Fluids A Sodium Acetate A Sodium Carbonate A A A A A A A A A A A A A A A A A A A	Oxygen	Α		
Phosphorous Pentoxide Potassium Aluminum Sulfate Potassium Bicarbonate Potassium Bromide A Potassium Carbonate A Potassium Carbonate A Potassium Chlorate A Potassium Chlorate A Potassium Dichromate A Potassium Ferricyanide A Potassium Ferricyanide A Potassium Hydroxide A Potassium Nitrate A Potassium Permanganate A Potassium Sulfate A Silver Nitrate A Sodium Acetate A Sodium Carbonate A A A A A A A A A A A A A A A A A A A	Ozone	Α	В	
Potassium Aluminum Sulfate A A Potassium Bicarbonate A Potassium Bromide A A Potassium Carbonate A Potassium Carbonate A Potassium Chlorate A A Potassium Chloride A A Potassium Dichromate A Potassium Ferricyanide A Potassium Ferrocyanide A Potassium Hydroxide A Potassium Nitrate A A Potassium Permanganate A Potassium Sulfate A Silicone Fluids A Silver Nitrate A Sodium Acetate A Sodium Carbonate A Sodium Carbonate A Sodium Carbonate A	Phosphorous Chlorides	Α	Α	
Potassium Bicarbonate Potassium Bromide A A Potassium Carbonate A Potassium Chlorate A Potassium Chloride A A Potassium Dichromate A Potassium Ferricyanide A Potassium Ferrocyanide A Potassium Hydroxide A Potassium Nitrate A Potassium Permanganate A Potassium Sulfate A Silicone Fluids A Sodium Acetate A Sodium Garbonate A A A A A A A A A A A A A A A A A A A	Phosphorous Pentoxide	Α	Α	
Potassium Bromide A A A Potassium Carbonate A A Potassium Chlorate A A Potassium Chlorate A A Potassium Chloride A A Potassium Dichromate A Potassium Ferricyanide A Potassium Ferrocyanide A Potassium Hydroxide A A Potassium Nitrate A A Potassium Permanganate A Potassium Sulfate A A Silver Nitrate A A Sodium Acetate A Sodium Garbonate A Sodium Carbonate A	Potassium Aluminum Sulfate	Α	Α	
Potassium Carbonate A A A A A A A A A A A A A A A A A A A	Potassium Bicarbonate	Α		
Potassium Chlorate A A Potassium Chloride A A Potassium Dichromate A Potassium Ferricyanide A Potassium Ferrocyanide A Potassium Hydroxide A Potassium Nitrate A A Potassium Permanganate A Potassium Sulfate A Potassium Sulfate A Silicone Fluids A Silver Nitrate A Sodium Acetate A Sodium Bicarbonate A Sodium Carbonate A	Potassium Bromide	Α	Α	
Potassium Chloride A A A Potassium Dichromate A Potassium Ferricyanide A Potassium Ferrocyanide A Potassium Hydroxide A Potassium Nitrate A A Potassium Permanganate A Potassium Sulfate A Potassium Sulfate A Silicone Fluids A Silver Nitrate A Sodium Acetate A Sodium Garbonate A Sodium Carbonate A	Potassium Carbonate	А		
Potassium Dichromate Potassium Ferricyanide Potassium Ferrocyanide Potassium Hydroxide Potassium Nitrate A Potassium Permanganate A Potassium Sulfate A Silicone Fluids Silver Nitrate A Sodium Acetate Sodium Carbonate A A A A A A A A A A A A A	Potassium Chlorate	Α	Α	
Potassium Ferricyanide Potassium Ferrocyanide A Potassium Hydroxide A Potassium Nitrate A Potassium Permanganate A Potassium Sulfate A Potassium Sulfate A Silicone Fluids A Silver Nitrate A Sodium Acetate A Sodium Bicarbonate A Sodium Carbonate A A	Potassium Chloride	Α	Α	
Potassium Ferrocyanide Potassium Hydroxide A A Potassium Nitrate A A Potassium Permanganate A Potassium Sulfate A A Potassium Sulfide A Silicone Fluids A Silver Nitrate A Sodium Acetate A Sodium Garbonate A Sodium Carbonate A A	Potassium Dichromate	Α		
Potassium Hydroxide A A Potassium Nitrate A A Potassium Permanganate A Potassium Sulfate A A Potassium Sulfide A Silicone Fluids A A Silver Nitrate A A Sodium Acetate A Sodium Bicarbonate A Sodium Carbonate A A	Potassium Ferricyanide	А		
Potassium Nitrate A A Potassium Permanganate A Potassium Sulfate A A Potassium Sulfide A Silicone Fluids A A Silver Nitrate A A Sodium Acetate A Sodium Bicarbonate A Sodium Carbonate A A	Potassium Ferrocyanide	А		
Potassium Nitrate A A Potassium Permanganate A Potassium Sulfate A A Potassium Sulfide A Silicone Fluids A A Silver Nitrate A A Sodium Acetate A Sodium Bicarbonate A Sodium Carbonate A A	Potassium Hydroxide	А	Α	
Potassium Sulfate A A Potassium Sulfide A Silicone Fluids A A Silver Nitrate A A Sodium Acetate A Sodium Bicarbonate A Sodium Carbonate A A	·	А	А	
Potassium Sulfate A A Potassium Sulfide A Silicone Fluids A A Silver Nitrate A A Sodium Acetate A Sodium Bicarbonate A Sodium Carbonate A A	Potassium Permanganate	А		
Potassium Sulfide A Silicone Fluids A A Silver Nitrate A A Sodium Acetate A Sodium Bicarbonate A Sodium Carbonate A A	_	Α	Α	
Silver Nitrate A A Sodium Acetate A Sodium Bicarbonate A Sodium Carbonate A A		Α		
Sodium Acetate A Sodium Bicarbonate A Sodium Carbonate A A	Silicone Fluids	Α	Α	
Sodium Acetate A Sodium Bicarbonate A Sodium Carbonate A A				
Sodium Bicarbonate A Sodium Carbonate A A				
Sodium Carbonate A A				
			Α	
Journal Chiorate A A	Sodium Chlorate	Α	Α	

Chemical	73°F 23°C	212°F 100°C	392°F 200°C
INORGANICS (CONT.)			
Sodium Chloride	Α	Α	
Soldium Hypochlorite	Α	А	
Sodium Nitrate	Α	Α	
Sodium Nitrite	Α		
Sodium Peroxide	Α	А	
Sodium Salts	Α		
Sodium Silicate	Α	Α	
Sodium Sulfate	Α	Α	
Sodium Sulfide	Α	Α	
Sodium Sulfite	Α	Α	
Sodium (Hot)	C	C	С
Stannic Chloride	A	A	
Stannous Chloride	Α	A	
Steam	A	A	Α
Sulfites	A	A	
Sulfur	Α	Α	
Sulfur Chloride	A	A	
Sulfur Dichloride	Α	Α	-
Sulfur Dioxide	Α	Α	Α
Sulfur Hexafluoride (Gas)	Α		
Sulfur Trioxide	Α	Α	
Tar	Α		
Tetraethyl Lead	Α		
Water, Distilled	Α	Α	
Water	Α	Α	Α
Water, Sea/Salt	Α	Α	
Zinc Chloride	Α	Α	
Zinc Sulfate	А	Α	
MISCELLANEOUS			
Adhesives (not cyanoacrylates)	Α		
Apple Juice	Α		
Aviation Spirit	Α		
Beer	Α	Α	
Cooking Oil	Α		
Creosote	Α		
Detergent Solutions (non-phenolic)	Α	Α	
Edible Fats and Oils	Α		
Fatty Acids	A	Α	
Fruit Juice	A	A	
Gelatin	A	A	
Ketchup	A	~	
Linseed Oil	A		
Milk	A	Α	
		А	
Mineral Oil	A	Δ.	
Molasses	A	A	
Olive Oil	Α	A	
Peanut Oil	A	A	
Paraffin	Α	Α	
Sewage	Α	Α	

73°F 212°F 392°F

Chemical

	23°C	100°C	200°C
MISCELLANEOUS (CONT	.)		
Soap Solution	Α		
Starch	Α	Α	
Tallow	Α	Α	
Turpentine	Α		
Urea	Α	Α	
Varnish	Α		
Vinegar	Α	Α	
Wax	Α		

Α

A A

Α

Chemical

White Spirit

Yeast

Wines and Spirits

	23°C	100°C	200°C
ORGANO-NITROGENS			
Acetonitrile	Α		
Aniline	Α	В	
Dimethyl Formamide (DMF)	Α		
Diethylamine	Α		
Nitrobenzene	Α		C
Pyridine	Α	А	
PHENOLS			
Phenol, Conc.	C	C	C
Phenol, Dilute	Α		
SULFUR COMPOUNDS			
Carbon Disulfide	Α	Α	
Dimethylsulfoxide (DMSO)	В	В	
Diphenylsulfone (DPS)	В	C	C
Ethylene Sulfate	Α		

73°F

212°F

392°F

KEY AND INTERPRETATION

Test bars of unfilled PEEK were immersed in chemicals at constant temperature for a minimum of 7 days (concentrated, unless otherwise stated). Chemical compatibility was assessed via retention of mechanical properties, supplemented by weight or dimensional changes when applicable. Compatibility was then classified into A, B, or C which should be interpreted as follows:

- A No interaction. Victrex materials are likely to operate in these chemicals. It is nevertheless recommended to validate the application performance.
- B Slight interaction. Victrex materials could be used in some applications exposed to these chemicals.
 It is necessary to evaluate the application specific performance criteria.
- C Severe interaction. Victrex materials should only be considered for applications with exposure to these chemicals under exceptional circumstances.

¹ Genklene is a registered trademark of ICI

² Freon is a registered trademark of DuPont

³ Dowtherm is a registered trademark of Dow Chemical

⁴ Skydrol is a registered trademark of Monsanto

⁵ Vaseline is a registered trademark of Chesebrough-Pond's, Inc.







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