# CHEMICAL RESISTANCE

VICTREX PEEK Polymers





PASSION • INNOVATION • PERFORMANCE

# CHEMICAL RESISTANCE

# **VICTREX PEEK Polymers**



Acetic Acid, 10% Conc. Acetic Acid, Conc. Acetic Acid, Conc. Acetic Acid, Glacial Acrylic Acid Aqua Regia CCCC Benzoic Acid Benzoic Acid Benzoic Acid Acrylic Acid ACarbonic Acid Carbonic Acid Carbonic Acid Carbonic Acid Carbonic Acid Carbonic Acid Colloroacetic Acid Colloroaceti	Chemical	73°F 23°C	212°F 100°C	392°F 200°C
Acetic Acid, Conc. Acetic Acid, Glacial Acrylic Acid Acrylic Acid Aqua Regia CCCC Benzene Sulfonic Acid Carbolic Acid Acryloic Acid Acid Acryloic Acid Acryloic Acid	ACIDS			
Acetic Acid, Glacial Acrylic Acid Acrylic Acid Aqua Regia Benzene Sulfonic Acid Benzoic Acid Boric Acid Carbolic Acid Carbolic Acid Carbonic Acid Carbonic Acid Chloroacetic Acid Chlorosulfonic Acid Chromic Acid, 40% Conc. Chromic Acid, 40% Conc. Citric Acid Formic Acid Hydrochloric Acid, 10% Conc. A Hydrocyanic Acid A A A Chydrochloric Acid, 40% Conc. C C C C C C C C C C C C C C C C C C C	Acetic Acid, 10% Conc.	Α	Α	
Acrylic Acid Aqua Regia CCCC Benzene Sulfonic Acid Carbolic Acid A A A Boric Acid A A A Carbolic Acid Carbonic Acid A A A Carbonic Acid Carbonic Acid A A A Carbonic Acid A A A Chloroacetic Acid Chlorosulfonic Acid Chromic Acid, 40% Conc. Chromic Acid, Conc. Citric Acid B B B Hydrobromic Acid C C C CCC Citric Acid B B B Hydrochloric Acid, 10% Conc. A A Hydrochloric Acid, Conc. C C C C C Carbic Acid A A A Conconconconconconconconconconconconconco	Acetic Acid, Conc.	Α	Α	Α
Aqua Regia C C C C Benzene Sulfonic Acid C Benzoic Acid A A A A C A Boric Acid A A A A C Carbolic Acid A A A A C Carbolic Acid A A A A C Carbonic Acid A A A C Carbonic Acid A A A C Chloroacetic Acid A A A C Chlorosulfonic Acid C C C C C C C C C C C C C C C C C C C	Acetic Acid, Glacial	Α	Α	
Benzene Sulfonic Acid Benzoic Acid Benzoic Acid Boric Acid A Carbolic Acid Carbolic Acid Carbonic Acid Carbonic Acid Carbonic Acid Chloroacetic Acid Chlorosulfonic Acid Chromic Acid, 40% Conc. Chromic Acid, Conc. Citric Acid B B B Hydrobromic Acid C C C C C C C C C C C C C C C C C C C	Acrylic Acid	Α	Α	
Benzoic Acid         A         A           Boric Acid         A         A           Carbolic Acid         A         A           Carbonic Acid         A         A           Chloroacetic Acid         A         A           Chlorosulfonic Acid         C         C         C           Chromic Acid, 40% Conc.         A         A           Chromic Acid, Conc.         A         A           Formic Acid         B         B         B           Hydrobromic Acid         C         C         C           Hydrochloric Acid, 10% Conc.         A         A         A           Hydrocyanic Acid         A         A	Aqua Regia	С	С	С
Boric Acid	Benzene Sulfonic Acid	С		
Carbolic Acid         A         A           Carbonic Acid         A         A           Chloroacetic Acid         C         C         C           Chromic Acid, 40% Conc.         A         A         C           Chromic Acid, 40% Conc.         C         C         C         C           Chromic Acid, Conc.         A<	Benzoic Acid	Α	Α	
Carbonic Acid Chloroacetic Acid Chlorosulfonic Acid Chlorosulfonic Acid Chromic Acid, 40% Conc. Chromic Acid, Conc. Chromic Acid, Conc. Citric Acid Formic Acid Fo	Boric Acid	Α	Α	
Chloroacetic Acid Chlorosulfonic Acid Chromic Acid, 40% Conc. Chromic Acid, Conc. Chromic Acid, Conc. Citric Acid A Formic Acid B Hydrobromic Acid B Hydrobromic Acid, 10% Conc. A Hydrochloric Acid, Conc. A Hydrochloric Acid, A Hydrofluoric Acid, A A Hydrofluoric Acid, 40% Conc. C Lactic Acid A Nitric Acid, 30% Conc. B Nitric Acid, 30% Conc. C Nitric Acid, 10% Conc. C C C C C C C C C C C C C C C C C C C	Carbolic Acid	Α		
Chlorosulfonic Acid Chromic Acid, 40% Conc. Chromic Acid, Conc. Chromic Acid, Conc. Citric Acid Formic Acid Hydrobromic Acid Hydrobromic Acid, 10% Conc. Chydrochloric Acid, 10% Conc. Chydrochloric Acid, Conc. Chydrochloric Acid, Conc. Chydrochloric Acid, Conc. Chydrochloric Acid, 40% Conc. Chydrochloric Acid, 40% Conc. Chydrochloric Acid, 40% Conc. Chydrocyanic Acid A Chydrofluoric Acid, 40% Conc. Chactic Acid A Chydrofluoric Acid, 40% Conc. Chydrocyanic Acid A C C C C C C C C C C C C C C C C C C	Carbonic Acid	Α	Α	
Chromic Acid, 40% Conc. Chromic Acid, Conc. Citric Acid Formic Acid Formic Acid Hydrobromic Acid Hydrobromic Acid, 10% Conc. Hydrochloric Acid, 10% Conc. Hydrochloric Acid, Conc. Hydrocyanic Acid A Hydrofluoric Acid, 40% Conc. C Lactic Acid A Nitric Acid, 10% Conc. Nitric Acid, 30% Conc. C C C C C C C C C C C C C C C C C C C	Chloroacetic Acid	Α	Α	
Chromic Acid, Conc. Citric Acid Formic Acid Formic Acid Hydrobromic Acid Hydrobromic Acid Hydrochloric Acid, 10% Conc. Hydrochloric Acid, Conc. Hydrocyanic Acid A Hydrofluoric Acid, 40% Conc. C C C C C C C C C C C C C C C C C C C	Chlorosulfonic Acid	С	С	С
Citric Acid Formic Acid Formic Acid Hydrobromic Acid C C C C Hydrochloric Acid, 10% Conc. Hydrocyanic Acid C C C C C C C C C C C C C C C C C C C	Chromic Acid, 40% Conc.	Α		
Formic Acid Hydrobromic Acid C C C C Hydrochloric Acid, 10% Conc. A Hydrocyanic Acid A Hydrocyanic Acid A Hydrofluoric Acid, 40% Conc. C C C C Lactic Acid A Maleic Acid A Nitric Acid, 10% Conc. B Nitric Acid, 30% Conc. C Nitric Acid, 50% Conc. C C C C C C C C C C C C C C C C C C C	Chromic Acid, Conc.	С	С	С
Hydrobromic Acid Hydrochloric Acid, 10% Conc. Hydrochloric Acid, Conc. Hydrocyanic Acid Hydrocyanic Acid A Hydrofluoric Acid, 40% Conc. Lactic Acid Maleic Acid Nitric Acid, 10% Conc. Nitric Acid, 50% Conc. Nitric Acid, 10% Conc. C Nitrous Acid, 10% Conc. A Oleic Acid Oleum C Oxalic Acid Phosphoric Acid, 10% Conc. Phosphoric Acid, 50% Conc. A A A Phosphoric Acid, 50% Conc. A A A B B A A A A A A A B B B B B B B	Citric Acid	Α	Α	
Hydrochloric Acid, 10% Conc.  Hydrochloric Acid, Conc.  Hydrocyanic Acid  Hydrofluoric Acid, 40% Conc.  Lactic Acid  Maleic Acid  Nitric Acid, 10% Conc.  Nitric Acid, 30% Conc.  Nitric Acid, 50% Conc.  C C C  C C  Nitrous Acid, 10% Conc.  Oleic Acid  A A  Perchloric Acid  Phosphoric Acid, 10% Conc.  Phosphoric Acid, 50% Conc.  A A  Phosphoric Acid, 50% Conc.  A A  Picric Acid  Silicic Acid  Sulfuric Acid, < 40% Conc.  B B  B  S  Sulfuric Acid, 10% Conc.  C C  C C  C C  C C  C C  C C  C C  C	Formic Acid	В	В	
Hydrochloric Acid, Conc. Hydrocyanic Acid Hydrofluoric Acid, 40% Conc. C C C C C C C C C C C C C C C C C C C	Hydrobromic Acid	С	С	C
Hydrocyanic Acid Hydrofluoric Acid, 40% Conc.  Lactic Acid A Maleic Acid A Nitric Acid, 10% Conc. A Nitric Acid, 30% Conc. B Nitric Acid, 50% Conc. C C C C C C C C C C C C C C C C C C C	Hydrochloric Acid, 10% Conc.	Α	Α	
Hydrofluoric Acid, 40% Conc.  Lactic Acid  A  Maleic Acid  A  Nitric Acid, 10% Conc.  Nitric Acid, 30% Conc.  Nitric Acid, 50% Conc.  C  Nitric Acid, Conc.  Nitrous Acid, 10% Conc.  Oleic Acid  Oleum  C  C  C  C  C  C  C  C  C  C  C  C  C	Hydrochloric Acid, Conc.	Α	В	
Lactic Acid  Maleic Acid  A  Nitric Acid, 10% Conc.  Nitric Acid, 30% Conc.  Nitric Acid, 50% Conc.  C  Nitric Acid, 50% Conc.  C  Nitrous Acid, 10% Conc.  Oleic Acid  Oleum  C  Oxalic Acid  Perchloric Acid, 10% Conc.  Phosphoric Acid, 10% Conc.  A  Phosphoric Acid, 50% Conc.  A  Phosphoric Acid, 80% Conc.  A  Phothalic Acid  A  Silicic Acid  A  Sulfuric Acid, > 40% Conc.  Sulfurous Acid, 10% Conc.  A  A  A  Tannic Acid  A  A  Tannic Acid  A  A	Hydrocyanic Acid	Α	Α	
Lactic Acid  Maleic Acid  A  Nitric Acid, 10% Conc.  Nitric Acid, 30% Conc.  Nitric Acid, 50% Conc.  C  Nitric Acid, 50% Conc.  C  Nitrous Acid, 10% Conc.  Oleic Acid  Oleum  C  Oxalic Acid  Perchloric Acid, 10% Conc.  Phosphoric Acid, 10% Conc.  A  Phosphoric Acid, 50% Conc.  A  Phosphoric Acid, 80% Conc.  A  Phothalic Acid  A  Silicic Acid  A  Sulfuric Acid, > 40% Conc.  Sulfurous Acid, 10% Conc.  A  A  A  Tannic Acid  A  A  Tannic Acid  A  A	Hydrofluoric Acid, 40% Conc.	C	С	C
Nitric Acid, 10% Conc.  Nitric Acid, 30% Conc.  Nitric Acid, 50% Conc.  C C C  Nitric Acid, 50% Conc.  C C C  Nitrous Acid, 10% Conc.  Oleic Acid  Oleum  C C C  Oxalic Acid  Perchloric Acid  Phosphoric Acid, 10% Conc.  Phosphoric Acid, 50% Conc.  Phosphoric Acid, 50% Conc.  Phosphoric Acid, 80% Conc.  A A  Phosphoric Acid  Silicic Acid  A A  Silicic Acid  Sulfuric Acid, < 40% Conc.  Sulfuric Acid, 10% Conc.  Sulfurous Acid  Tannic Acid, 10% Conc.  A A  A  Tannic Acid, 10% Conc.  A A  A  Tartaric Acid  A A	Lactic Acid	Α	Α	
Nitric Acid, 30% Conc.  Nitric Acid, 50% Conc.  C C C  Nitric Acid, Conc.  C C C  Nitrous Acid, 10% Conc.  Oleic Acid  Oleum  C C C  Oxalic Acid  Perchloric Acid  Phosphoric Acid, 10% Conc.  Phosphoric Acid, 50% Conc.  Phosphoric Acid, 80% Conc.  A A  Picric Acid  A A  Silicic Acid  Sulfuric Acid, > 40% Conc.  Sulfurous Acid  Tannic Acid, 10% Conc.  A A  Tannic Acid, 10% Conc.  A A  A  Tartaric Acid  A A  Tartaric Acid  A A	Maleic Acid	Α	Α	
Nitric Acid, 50% Conc.  Nitric Acid, Conc.  Nitrous Acid, 10% Conc.  Oleic Acid  Oleum  C C C C C C C C C C C C C C C C C C	Nitric Acid, 10% Conc.	Α	Α	
Nitric Acid, Conc.  Nitrous Acid, 10% Conc.  Oleic Acid  Oleum  C  Oxalic Acid  Perchloric Acid  Phosphoric Acid, 10% Conc.  Phosphoric Acid, 50% Conc.  Phosphoric Acid, 80% Conc.  A  Phthalic Acid  A  Silicic Acid  Sulfuric Acid, < 40% Conc.  Sulfurous Acid  Tannic Acid, 10% Conc.  A  A  A  Tartaric Acid  A  A  C  C  C  C  C  C  C  C  C  C  C	Nitric Acid, 30% Conc.	В		
Nitrous Acid, 10% Conc.  Oleic Acid  Oleum  C C C C Oxalic Acid A Perchloric Acid A Phosphoric Acid, 10% Conc. A Phosphoric Acid, 50% Conc. A A Phosphoric Acid, 80% Conc. A A Phisphoric Acid B C C C C C C C C C C C C C C C C C C	Nitric Acid, 50% Conc.	С	С	С
Oleic Acid Oleum CCCCC Oxalic Acid AA Perchloric Acid AA Phosphoric Acid, 10% Conc. AA AA Phosphoric Acid, 50% Conc. AA AA Phosphoric Acid, 80% Conc. AA AA Picric Acid AA Silicic Acid AA Sulfuric Acid, < 40% Conc. BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB	Nitric Acid, Conc.	С	С	C
Oleum C C C Oxalic Acid A A Perchloric Acid Phosphoric Acid, 10% Conc. A A A Phosphoric Acid, 50% Conc. A A A Phosphoric Acid, 80% Conc. A A Phosphoric Acid, 80% Conc. A A Picric Acid A A Silicic Acid A A Sulfuric Acid, < 40% Conc. B B B Sulfuric Acid, > 40% Conc. C C Sulfurous Acid A A Tannic Acid, 10% Conc. A A Tartaric Acid A A	Nitrous Acid, 10% Conc.	Α		
Oxalic Acid A A  Perchloric Acid A A  Phosphoric Acid, 10% Conc. A A A  Phosphoric Acid, 50% Conc. A A A  Phosphoric Acid, 80% Conc. A A  Phosphoric Acid, 80% Conc. A A  Phthalic Acid A A  Picric Acid A A  Silicic Acid A A  Sulfuric Acid, < 40% Conc. B B B  Sulfuric Acid, > 40% Conc. C C  Sulfurous Acid A A  Tannic Acid, 10% Conc. A A  Tartaric Acid A A	Oleic Acid	Α		
Perchloric Acid Phosphoric Acid, 10% Conc. A A A A Phosphoric Acid, 50% Conc. A A A A A A A A A A A A A A A A A A A	Oleum	С	С	C
Phosphoric Acid, 10% Conc.  Phosphoric Acid, 50% Conc.  Phosphoric Acid, 80% Conc.  Phosphoric Acid, 80% Conc.  A  A  Phthalic Acid  Picric Acid  Silicic Acid  Sulfuric Acid, < 40% Conc.  Sulfuric Acid, > 40% Conc.  C  Sulfurous Acid  Tannic Acid, 10% Conc.  A  A  A  A  Tartaric Acid  A  A	Oxalic Acid	Α	Α	
Phosphoric Acid, 50% Conc.  Phosphoric Acid, 80% Conc.  A A Phosphoric Acid, 80% Conc.  A A Pitric Acid A Silicic Acid A Sulfuric Acid, < 40% Conc. B B B Sulfuric Acid, > 40% Conc.  C C C Sulfurous Acid A Tannic Acid, 10% Conc.  A A Tartaric Acid A A	Perchloric Acid	Α	Α	
Phosphoric Acid, 80% Conc.  Phthalic Acid A Picric Acid A Silicic Acid A Sulfuric Acid, < 40% Conc. B Sulfuric Acid, > 40% Conc. C C Sulfurous Acid A Tannic Acid, 10% Conc. A A Tartaric Acid A A	Phosphoric Acid, 10% Conc.	Α	Α	Α
Phthalic Acid A A Picric Acid A A Silicic Acid A A Sulfuric Acid, < 40% Conc. B B B Sulfuric Acid, > 40% Conc. C C Sulfurous Acid A A Tannic Acid, 10% Conc. A A Tartaric Acid A A	Phosphoric Acid, 50% Conc.	Α	Α	Α
Picric Acid A A Silicic Acid A A Sulfuric Acid, < 40% Conc. B B B Sulfuric Acid, > 40% Conc. C C Sulfurous Acid A A Tannic Acid, 10% Conc. A A Tartaric Acid A A	Phosphoric Acid, 80% Conc.	Α	Α	
Silicic Acid A A Sulfuric Acid, < 40% Conc. B B B Sulfuric Acid, > 40% Conc. C C Sulfurous Acid A A Tannic Acid, 10% Conc. A A Tartaric Acid A A	Phthalic Acid	Α	Α	
Sulfuric Acid, < 40% Conc.  Sulfuric Acid, > 40% Conc.  C C Sulfurous Acid A Tannic Acid, 10% Conc.  A A Tartaric Acid A A	Picric Acid	Α	Α	
Sulfuric Acid, > 40% Conc.  Sulfurous Acid  Tannic Acid, 10% Conc.  A  A  Tartaric Acid  A  A	Silicic Acid	Α	Α	
Sulfurous Acid A A Tannic Acid, 10% Conc. A A Tartaric Acid A A	Sulfuric Acid, < 40% Conc.	В	В	В
Tannic Acid, 10% Conc.  A A Tartaric Acid A A	Sulfuric Acid, > 40% Conc.	С	С	C
Tartaric Acid A A	Sulfurous Acid	Α	Α	
	Tannic Acid, 10% Conc.	Α	Α	
Trifluoromethyl Sulfonic Acid C C	Tartaric Acid	Α	Α	
	Trifluoromethyl Sulfonic Acid	С	С	С

Chemical 73 23		
ALCOHOLS		
Benzyl Alcohol A	4	
Butanol A	4	
Cyclohexanol A	4	
Ethanol A	A A	
Ethylene Glycol	A A	В
Ethylene Glycol, 50% Conc.	A A	Α
Glycerol A	4	
Gylcols A	А	
Isopropanol A	4	
Methanol A	A A	
Propanol A	4	
ALDEHYDES AND KETONES		
Acetaldehyde A	A A	
Acetone A	A	
Benzaldehyde A	4	
Cyclohexanone A	4	
Formaldehyde A	A A	
Formalin A	4	
Ketones A	4	
Methylethyl Ketone (MEK)	А В	С
N-Methyl-2-Pyrrolidone (NMP)	4	
BASES		
Ammonia 880	4	
Ammonia Anhydrous	А	Α
Ammonia Liquid	A A	Α
Ammonium Hydroxide, 10% Conc.	4	
Ammonium Hydroxide, Conc.	4	
Calcium Hydroxide A	4	
Hydrazine A	A A	
Hydroxides A	4	
Magnesium Hydroxide A	4	
Potassium Hydroxide, 10% Conc.	4	
Potassium Hydroxide, 70% Conc.	4	
Sodium Hydroxide, 10% Conc.	A A	Α
Sodium Hydroxide, 50% Conc.	A A	Α
Sodium Hydroxide, Conc.	4	
ESTERS		
Aliphatic Esters	A A	
Amyl Acetate	A A	
Butyl Acetate A	4	
Dibutyl Phthalate A	4	
Dimethyl Phthalate A	4	
Dioctyl Phthalate A	4	
Ethyl Acetate A	4	
Oils (Di-Ester and Phosphate	A	
	. Δ	1

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)	Α		
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		
	A		
Ethylene Dichloride Freon <sup>2</sup> 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	Α	Α	
Brake Fluid (Mineral)	Α	Α	Α
Brake Fluid (Polyglycol)	Α	Α	Α
Butane	Α		
Crude Oil	Α		
Cyclohexane	A	Α	
Diesel Oil	A	, ,	
Dowtherm <sup>3</sup> A			С
Dowtherm G			В
Dowtherm HT			В
Dowtherm LF			_
	Δ		В
Ethane	A		
Fuel Oil	A		
Gas (Manufactured)	A		
Gas (Natural)	Α	_	
Gasoline	Α	Α	
Heptane	Α		
Hexane	Α		
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	Α		
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	Α		
Propane	Α		
Skydrol⁴ Hydraulic Fluid	Α		
Styrene (Liquid)	Α		
Toluene	Α		
Transformer Oil	Α	Α	
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	A	
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	Α	Α
Chlorine	C	C	C
	A	A	C
Copper Acetate	A	A	
Copper Carbonate			
Copper Chloride	A	A	
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	

Chemical	73°F 23°C	212°F 100°C	
INORGANICS (CONT.)			
Ethylene Nitrate	Α		
Ferric Chloride	В	В	
Ferric Nitrate	Α		
Ferric Oxide	Α	Α	
Ferric Sulfate	Α		
Ferrous Chloride	Α		
Ferrous Nitrate	Α		
Ferrous Sulfate	Α	Α	
Fluorine	C	C	C
Hydrogen Peroxide	Α	Α	
Hydrogen Sulfide (Gas)	Α	Α	Α
lodine	В		
Lead Acetate	Α	Α	
Lime	Α	Α	
Magnesium Chloride	Α	Α	
Magnesium Sulfate	Α	Α	
Mercuric Chloride	Α	Α	
Mercurous Chloride	Α		
Mercury	Α	Α	
Nickel Acetate	Α	Α	
Nickel Chloride	Α	Α	
Nickel Nitrate	Α	Α	
Nickel Salts	Α		
Nickel Sulfate	Α	Α	
Nitrogen	Α		
Nitrous Oxide	Α		
Oxygen	Α		
Ozone	Α	В	
Phosphorous Chlorides	Α	Α	
Phosphorous Pentoxide	Α	Α	
Potassium Aluminum Sulfate	Α	Α	
Potassium Bicarbonate	Α		
Potassium Bromide	Α	Α	
Potassium Carbonate	Α		
Potassium Chlorate	Α	Α	
Potassium Chloride	Α	Α	
Potassium Dichromate	Α		
Potassium Ferricyanide	Α		
Potassium Ferrocyanide	Α		
Potassium Hydroxide	Α	Α	
Potassium Nitrate	Α	Α	
Potassium Permanganate	Α		
Potassium Sulfate	Α	Α	
Potassium Sulfide	Α		
Silicone Fluids	Α	Α	
Silver Nitrate	Α	Α	
Sodium Acetate	Α		
Sodium Bicarbonate	Α		
Sodium Carbonate	Α	Α	
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	Α	
Sodium Nitrate	Α	Α	
Sodium Nitrite	Α		
Sodium Peroxide	Α	Α	
Sodium Salts	Α		
Sodium Silicate	Α	Α	
Sodium Sulfate	Α	Α	
Sodium Sulfide	Α	Α	
Sodium Sulfite	Α	Α	
Sodium (Hot)	С	С	С
Stannic Chloride	A	A	
Stannous Chloride	Α	A	
Steam	A	A	А
Sulfites	A	A	
Sulfur	A	A	
Sulfur Chloride	A	A	
	, ,	- ' '	
Sulfur Dichloride	A	A	
Sulfur Dioxide	A	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	Α	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	Α	Α	
Fruit Juice	Α	Α	
Gelatin	Α	Α	
Ketchup	Α		
Linseed Oil	Α		
Milk	Α	Α	
Mineral Oil	A	, ,	
Molasses	A	Α	
Olive Oil	A	A	
Peanut Oil	A	A	
Paraffin	A	A	
		A	
Sewage	A	А	

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		
White Spirit	Α		
Wines and Spirits	Α		
Yeast	Δ	Δ	

Chemical	73°F 23°C		
ORGANO-NITROGENS			
Acetonitrile	Α		
Aniline	Α	В	
Dimethyl Formamide (DMF)	Α		
Diethylamine	Α		
Nitrobenzene	Α		C
Pyridine	Α	Α	
PHENOLS			
Phenol, Conc.	С	С	C
Phenol, Dilute	Α		
SULFUR COMPOUNDS			
Carbon Disulfide	Α	Α	
Dimethylsulfoxide (DMSO)	В	В	
Diphenylsulfone (DPS)	В	C	C
Ethylene Sulfate	Α		

## KEY AND INTERPRETATION

Chemical

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.

<sup>&</sup>lt;sup>1</sup> Genklene is a registered trademark of ICI

<sup>&</sup>lt;sup>2</sup> Freon is a registered trademark of DuPont

<sup>&</sup>lt;sup>3</sup> Dowtherm is a registered trademark of Dow Chemical

<sup>&</sup>lt;sup>4</sup> Skydrol is a registered trademark of Monsanto

<sup>&</sup>lt;sup>5</sup> Vaseline is a registered trademark of Chesebrough-Pond's, Inc.





#### WORLD HEADQUARTER

Victrex plc Victrex Technology Centre Hillhouse International Thornton Cleveleys Lancashire FY5 4QD United Kingdom

Phone +44 (0) 1253 897 700 +44 (0) 1253 897 701 Fax

#### Email victrexplc@victrex.com

### ASIA PACIFIC

Victrex High-Performance Materials (Shanghai) Co Ltd Part B Building G 1688 Zhuanxing Road Xinzhuang Industry Park Shanghai 201108 China Phone +86 (0) 21 6113 6900

+86 (0) 21 6113 6901 Fax Email scsales@victrex.com

#### EUROPE

Victrex Europa GmbH Langgasse 16 65719 Hofheim/Ts. Phone +49 (0) 6192 964 90 +49 (0) 6192 964 94 8 Fax

Email eurosales@victrex.com

#### AMERICAS

Email

Victrex USA, Inc. 300 Conshohocken State Road Suite 120 West Conshohocken, PA 19428 USA Phone +1 (0) 800-VICTREX Phone +1 (0) 484-342-6001 Fax +1 (0) 484-342-6002

americas@victrex.com

# JAPAN

Victrex Japan Inc.

4-28 Mita 1-chome

Minato-ku Tokyo 108-0073 Japan +81 (0) 3 5427 4650 Phone Fax +81 (0) 3 5427 4651 Email japansales@victrex.com

Mita Kokusai Building Annex

## www.victrex.com

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