



CHEMICAL RESISTANCE IN GENERAL USE

	Resistant	Limited Resistance	Not Resistant		Resistant	Limited Resistance	Not Resistant		Resistant	Limited Resistance	Not Resistant
Paint				Chlorophenol			x	Nickel sulphate	x		
Acrylic paints and lacquers		x		Chromic acid		x		Nitric acid, to 20%	x		
Aromatic-free hydrocarbons	x			Citric acid, to 20%	x			Nitric acid, 20-70%		x	
Nitrocellulose			x	Copper sulphate	x			Nitric acid, over 70%			x
Oil paints, pure	x			Cresol			x	Oxalic acid	x		
Thinners, general			x	Cyclohexane	x			Paraffin		x	
Chemical Process Baths				Diacetone alcohol			x	Perchloroethylene			x
Electroplating baths	x			Diamyl phthalate		x		Petroleum ether	x		
Photographic baths	x			Dibutyl phthalate			x	Phenols			x
Building Materials and Protective Agents for Buildings				Diethylene glycol	x			Phosphoric acid, to 10%	x		
Bituminous emulsion			x	Dioxane			x	Phosphorus			x
Cement	x			Ether			x	Phosphorus trichloride			x
Hot bitumen		x		Ethyl acetate			x	Picric acid, 1% in water	x		
Mortar	x			Ethyl alcohol, to 15%	x			Potassium carbonate	x		
Plaster of paris	x			Ethyl alcohol, 15-30%		x		Potassium chloride	x		
Red lead	x			Ethyl alcohol, above 30%			x	Potassium cyanide	x		
Chemicals, Solvents, etc.				Ethyl bromide			x	Potassium dichromate	x		
Acetic acid, glacial			x	Ethyl butyrate			x	Potassium hydroxide	x		
Acetic acid, to 25%		x		Ethylene bromide			x	Potassium nitrate	x		
Acetic acid, 5% (vinegar)	x			Ferric chloride	x			Potassium permanganate	x		
Acetone			x	Ferrous chloride	x			Silicon tetrachloride			x
Alum	x			Ferrous sulphate	x			Silver nitrate	x		
Aluminium chloride	x			Formic acid, to 2%	x			Soap solution	x		
Aluminium oxalate	x			Formic acid, to 40%		x		Soda	x		
Aluminium sulphate	x			Glycerol	x			Sodium bisulphite	x		
Ammonia, aqueous solution	x			Glycol	x			Sodium carbonate	x		
Ammonium sulphate	x			Heptane	x			Sodium chlorate	x		
Amyl acetate			x	Hexane	x			Sodium chloride	x		
Aniline			x	Hydrochloric acid	x			Sodium hydroxide	x		
Arsenic	x			Hydrofluoric acid, to 20%	x			Sodium hypochlorite	x		
Arsenic acid	x			Hydrogen peroxide, to 40%	x			Sodium sulphate	x		
Battery acid	x			Hydrogen peroxide, over 40%		x		Sodium sulphide	x		
Benzaldehyde			x	Iodine	x			Stearic acid	x		
Benzene			x	Isopropyl alcohol, to 50%		x		Sulphur	x		
Bromine			x	Lactic acid, to 80%		x		Sulphur dioxide, liquid			x
Butanol		x		Magnesium chloride	x			Sulphuric acid, to 30%	x		
Butyl lactate			x	Magnesium sulphate	x			Sulphurous acid, conc.		x	
Butyric acid, to 5%	x			Manganese sulphate	x			Sulphurous acid, to 5%	x		
Calcium chloride	x			Mercury	x			Sulphuryl chloride	x		
Calcium hypochlorite	x			Methanol, absolute			x	Tartaric acid, to 50%	x		
Carbon disulphide			x	Methanol, to 15%		x		Thionyl chloride			x
Carbon tetrachloride			x	Methyl ethyl ketone			x	Toluene			x
Chlorinated hydrocarbons			x	Methylated spirits			x	Triethylamine	x		
Chlorine, liquid			x	Milk of lime	x			Trichloroacetic acid			x
Chlorine water		x		Monobromonaphthalene	x			Tricresyl phosphate	x		
Chloroethyl acetate			x	Motor fuel, benzene-free	x			Turpentine		x	
				Motor fuel, with benzene			x	Turpentine substitute		x	

RESISTANT = COMPATIBLE

LIMITED RESISTANCE = NOT COMPATIBLE

NOT RESISTANT = NOT COMPATIBLE

CONTINUED ON REVERSE SIDE ►

	Resistant	Limited Resistance	Not Resistant		Resistant	Limited Resistance	Not Resistant		Resistant	Limited Resistance	Not Resistant
Urea, to 20%	x			Marinades	x			Cleaning Agents			
Xylene			x	Meat and fish	x			Acids - see under chemicals			
Zinc sulphate, aqueous		x		Pepper, cinnamon, onions	x			Alcohol, absolute			x
Zinc sulphate, solid	x			Salt	x			Alcohol, to 30%	x		
Disinfectants				Gases and Vapors				Alkalis - see under chemicals			
Aqueous hypochlorite solution	x			Ammonia	x			Ammonia	x		
Bleaching powder, to 5%	x			Bromine vapor (dry)		x		Carbon tetrachloride			x
Carbolic acid			x	Carbon dioxide	x			Methylated spirits			x
Hydrogen peroxide, to 40%	x			Carbon monoxide	x			Paraffin		x	
Hydrogen peroxide, over 40%		x		Chloride vapor (dry)		x		Perchloroethylene			x
Lugol solution	x			Exhaust gases, containing HCl	x			Petrol, pure	x		
Mercuric chloride	x			Exhaust gases, containing HF	x			Petrol mixture, containing benzene			x
Surgical spirit			x	Exhaust gases, containing H ₂ SO ₄	x			Petroleum ether	x		
Tincture of iodine, 5%			x	Hydrogen sulphide	x			Soap solution	x		
Greases, Oils, Waxes				Methane	x			Soda solution	x		
Animal	x			Nitric oxide	x			Solvent stain removers			x
Mineral	x			Oxygen	x			Trichloroethylene			x
Silicone oil		x		Ozone	x			Turpentine		x	
Vegetable		x		Sulphur dioxide (dry)	x			Turpentine substitute		x	
Plastics				Natural gas (butane)	x			Pest Control Agents			
Foams	x			Beverages and Liquids				Aqueous solutions of pesticides		x	
Foams, containing plasticizer			x	Beer, wine	x			Protective (strippable) Coatings			
Polyamide	x			Camomile extract	x			Grip Mask® *	x		
Polyethylene	x			Chocolate	x			Sign Strip® ** strippable masking		x	
PVC	x			Coffee, tea	x			Miscellaneous			
PVC, plasticized			x	Fruit juice, milk	x			Urine	x		
Rubber	x			Nail polish			x				
Rubber, containing plasticizer			x	Nail polish remover			x				
Food and Spices				Peat water	x						
Aniseed, bay, nutmeg	x			Sea water	x						
Cloves			x	Soaps	x						
Coffee beans, flavored		x		Spirits, to 30%	x						
Coffee beans, unflavored	x			Sprays		x					
Honey, pure	x			Vinegar	x						
Ice cream	x			Water, mineral water	x						

The information on this chart can be used for ACRYLITE® GP and ACRYLITE® FF acrylic sheet. ACRYLITE FF sheet is dissolved faster by solvents than ACRYLITE GP sheet. All information is based on 72°F (23°C) test temperature and stress free material. The practical performance depends on usage temperatures and actual stresses. If you are not sure about your application, please call CYRO's Technical Service Department.

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Technical Service

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CYRO Industries

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Visitors have immediate access to frequently asked questions, technical concerns, physical properties, processing conditions, fabrication tips, regulatory compliance information, engineering guidelines, tips for troubleshooting, and hundreds of other facts about acrylics from one of North America's leading manufacturers of acrylic-based polymer and sheet products.

