



# CHEMICAL RESISTANCE IN GENERAL USE

	Resistant	Limited Resistance	Not Resistant		Resistant	Limited Resistance	Not Resistant		Resistant	Limited Resistance	Not Resistant
<b>Paint</b>				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	
<b>Chemical Process Baths</b>				Diacetone alcohol			x	Perchloroethylene			x
Electroplating baths	x			Diamyl phthalate		x		Petroleum ether	x		
Photographic baths	x			Dibutyl phthalate			x	Phenols			x
<b>Building Materials and Protective Agents for Buildings</b>				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		
<b>Chemicals, Solvents, etc.</b>				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	

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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			<b>Cleaning Agents</b>			
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		
<b>Disinfectants</b>				<b>Gases and Vapors</b>				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 <sub>2</sub> SO <sub>4</sub>	x			Petroleum ether	x		
Tincture of iodine, 5%			x	Hydrogen sulphide	x			Soap solution	x		
<b>Greases, Oils, Waxes</b>				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	
<b>Plastics</b>				Natural gas (butane)	x			<b>Pest Control Agents</b>			
Foams	x			<b>Beverages and Liquids</b>				Aqueous solutions of pesticides		x	
Foams, containing plasticizer			x	Beer, wine	x			<b>Protective (strippable) Coatings</b>			
Polyamide	x			Camomile extract	x			Grip Mask® *	x		
Polyethylene	x			Chocolate	x			Sign Strip® ** strippable masking		x	
PVC	x			Coffee, tea	x			<b>Miscellaneous</b>			
PVC, plasticized			x	Fruit juice, milk	x			Urine	x		
Rubber	x			Nail polish			x				
Rubber, containing plasticizer			x	Nail polish remover			x				
<b>Food and Spices</b>				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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**CYRO Industries**  
25 Executive Blvd.  
Orange, CT 06477  
203-795-6081

**CYRO Canada Inc.**  
6285 Northam Drive  
Suite 100  
Mississauga,  
Ontario L4V 1X5  
905-677-1388  
800-268-4743

**Sales Offices**

For the name of your local Authorized Distributor, call 800-631-5384 or contact the nearest regional sales office:

**Eastern Region**  
100 Enterprise Drive  
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Suite 1039  
Plano, TX 75074  
972-424-6830

**Western Region**  
3180 Crow Canyon Place  
Suite 240  
San Ramon, CA 94583  
925-866-9300

**CYRO Canada Inc.**  
6285 Northam Drive  
Suite 100  
Mississauga,  
Ontario L4V 1X5  
905-677-1388  
800-268-4743

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