CYRO ACRUIC SHEET CHEMICAL RESISTANCE IN GENERAL USE

	Resistant	Limited Resistance	Not Resistant
Paint			
Acrylic paints and lacquers		Х	
Aromatic-free hydrocarbons	Х		
Nitrocellulose			Х
Oil paints, pure	Х		
Thinners, general			Х
Chemical Process Baths			
Electroplating baths	Х		
Photographic baths	Х		
Building Materials and Pr	otec	tive	
Agents for Buildings			
Bituminous emulsion			Х
Cement	Х		
Hot bitumen		х	
Mortar	Х		
Plaster of paris	Х		
Red lead	Х		
Chemicals, Solvents, etc.			
Acetic acid, glacial			Х
Acetic acid, to 25%		х	
Acetic acid, 5% (vinegar)	Х		
Acetone			Х
Alum	Х		
Aluminium chloride	Х		
Aluminium oxalate	Х		
Aluminium sulphate	Х		
Ammonia, aqueous solution	Х		
Ammonium sulphate	Х		
Amyl acetate			Х
Aniline			Х
Arsenic	Х		
Arsenic acid	Х		
Battery acid	Х		
Benzaldehyde			Х
Benzene			Х
Bromine			Х
Butanol		Х	
Butyl lactate			Х
Butyric acid, to 5%	Х		
Calcium chloride	Х		
Calcium hypochlorite	Х		
Carbon disulphide			Х
Carbon tetrachloride			Х
Chlorinated hydrocarbons			Х
Chlorine, liquid			х
Chlorine water		х	
Chloroethyl acetate			Х

	Resistant	Limited Resistance	Not Resistant
Chlorophenol			Х
Chromic acid		х	
Citric acid, to 20%	х		
Copper sulphate	Х		
Cresol			Х
Cyclohexane	Х		
Diacetone alcohol			Х
Diamyl phthalate		х	
Dibutyl phthalate			Х
Diethylene glycol	Х		
Dioxane			Х
Ether			Х
Ethyl acetate			Х
Ethyl alcohol, to 15%	Х		
Ethyl alcohol, 15-30%		Х	
Ethyl alcohol, above 30%			Х
Ethyl bromide			Х
Ethyl butyrate			Х
Ethylene bromide			Х
Ferric chloride	Х		
Ferrous chloride	Х		
Ferrous sulphate	Х		
Formic acid, to 2%	Х		
Formic acid, to 40%		Х	
Glycerol	Х		
Glycol	Х		
Heptane	Х		
Hexane	Х		
Hydrochloric acid	Х		
Hydrofluoric acid, to 20%	Х		
Hydrogen peroxide, to 40%	Х		
Hydrogen peroxide, over 40%		X	
lodine	Х		
Isopropyl alcohol, to 50%		X	
Lactic acid, to 80%		Х	
Magnesium chloride	Х		
Magnesium sulphate	X		
Manganese sulphate	X		
Mercury	Х		
Methanol, absolute			Х
Methanol, to 15%		Х	
Methyl ethyl ketone			X
Methylated spirits Milk of lime			Х
	X		
Monobromonaphthalene	X		
Motor fuel, benzene-free	Х		Y
Motor fuel, with benzene			X

	Resistant	Limited Resistance	Not Resistant
Nickel sulphate	Х		
Nitric acid, to 20%	Х		
Nitric acid, 20-70%		х	
Nitric acid, over 70%			Х
Oxalic acid	Х		
Paraffin		Х	
Perchloroethylene			Х
Petroleum ether	Х		
Phenols			Х
Phosphoric acid, to 10%	Х		
Phosphorus			Х
Phosphorus trichloride			Х
Picric acid, 1% in water	Х		
Potassium carbonate	х		_
Potassium chloride	х		_
Potassium cyanide	Х		
Potassium dichromate	Х		
Potassium hydroxide	Х		
Potassium nitrate	х		_
Potassium permanganate	X		
Silicon tetrachloride			х
Silver nitrate	Х		
Soap solution	X		_
Soda	X		_
Sodium bisulphite	X		
Sodium carbonate	X		
Sodium chlorate	X		
Sodium chloride	X		_
Sodium hydroxide	X		_
Sodium hypochlorite	X		
Sodium sulphate	x		
Sodium sulphide			
Stearic acid	X X		_
Sulphur	x		
Sulphur dioxide, liquid	X		x
Sulphuric acid, to 30%	x		×
Sulphurous acid, conc.	^	v	_
	X	х	_
Sulphurous acid, to 5% Sulphuryl chloride	X		
	X		
Tartaric acid, to 50% Thionyl chloride	Х		v
Toluene			X
	X		X
Triethylamine	Х		
Trichloroacetic acid	X		X
Tricresyl phosphate	Х		
Turpentine		X	
Turpentine substitute		Х	

RESISTANT = COMPATIBLE LIMITED RESISTANCE = NOT COMPATIBLE

NOT RESISTANT = NOT COMPATIBLE

	Resista	Limited Resista	Not Resis	
Urea, to 20%	Х			Marinac
Xylene			Х	Meat an
Zinc sulphate, aqueous		Х		Pepper,
Zinc sulphate, solid	Х			Salt
Disinfectants				Gases
Aqueous hypochlorite solution	Х			Ammon
Bleaching powder, to 5%	Х			Bromine
Carbolic acid			Х	Carbon
Hydrogen peroxide, to 40%	Х			Carbon
Hydrogen peroxide, over 40%		х		Chloride
Lugol solution	Х			Exhaus
Mercuric chloride	Х			Exhaus
Surgical spirit			Х	Exhaus
Tincture of iodine, 5%			Х	Hydroge
Greases, Oils, Waxes				Methan
Animal	Х			Nitric o
Mineral	Х			Oxygen
Silicone oil		Х		Ozone
Vegetable		х		Sulphur
Plastics				Natural
Foams	Х			Bever
Foams, containing plasticizer			Х	Beer, w
Polyamide	Х			Camom
Polyethylene	Х			Chocola
PVC	Х			Coffee,
PVC, plasticized			Х	Fruit jui
Rubber	Х			Nail po
Rubber, containing plasticizer			Х	Nail pol
Food and Spices				Peat wa
Aniseed, bay, nutmeg	Х			Sea wa
Cloves			Х	Soaps
Coffee beans, flavored		х		Spirits,
Coffee beans, unflavored	Х			Sprays
Honey, pure	Х			Vinega
Ice cream	Х			Water,

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	Resistant	Limited Resistanc	Not Resistant
Marinades	Х		
Meat and fish	Х		
Pepper, cinnamon, onions	Х		
Salt	Х		
Gases and Vapors			
Ammonia	Х		
Bromine vapor (dry)		Х	
Carbon dioxide	Х		
Carbon monoxide	Х		
Chloride vapor (dry)		Х	
Exhaust gases, containing HCI	Х		
Exhaust gases, containing HF	Х		
Exhaust gases, containing H2SO4	Х		
Hydrogen sulphide	Х		
Methane	Х		
Nitric oxide	Х		
Oxygen	Х		
Ozone	Х		
Sulphur dioxide (dry)	Х		
Natural gas (butane)	Х		
Beverages and Liquids			
Beer, wine	Х		
Camomile extract	Х		
Chocolate	Х		
Coffee, tea	Х		
Fruit juice, milk	Х		
Nail polish			Х
Nail polish remover			Х
Peat water	Х		
Sea water	Х		
Soaps	Х		
Spirits, to 30%	Х		
Sprays		х	
Vinegar	Х		
Water, mineral water	Х		

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	Resistant	Limited Resistance	Not Resistant	
Cleaning Agents				
Acids - see under chemicals				
Alcohol, absolute			Х	
Alcohol, to 30%	Х			
Alkalis - see under chemicals				
Ammonia	х			
Carbon tetrachloride			Х	
Methylated spirits			Х	
Paraffin		Х		
Perchloroethylene			Х	
Petrol, pure	Х			
Petrol mixture, containing benzer	ne		Х	
Petroleum ether	Х			
Soap solution	Х			
Soda solution	Х			
Solvent stain removers			Х	
Trichloroethylene			Х	
Turpentine		Х		
Turpentine substitute		Х		
Pest Control Agents				
Aqueous solutions of pesticides		Х		
Protective (strippable) Coatings				
Grip Mask® *	Х			
Sign Strip® ** strippable masking		Х		
Miscellaneous				
Urine	Х			

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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.

RESISTANT = COMPATIBLE

LIMITED RESISTANCE = NOT COMPATIBLE

NOT RESISTANT = NOT COMPATIBLE

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Technical Service

For more information or specific questions about your project, contact CYRO's Technical Service Representatives.

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