

CHEMICAL RESISTANCE GUIDELINE

LECTROFLUOR®

HIGH-TECH COPOLYMER SURFACE ENHANCEMENT TECHNOLOGY

LECTROFLUOR						
	601	602	604	611	615	
CHEMICAL	°F.	°F.	°F.	68°F./194°F.	°F.	
Abietic Acid	275	200	200	—	—	—
Acetaldehyde	100	X	200	G	—	—
Acetamide	200	200	200	—	—	200
Acetic Acid 10%	200	200	200	—	—	—
Acetic Acid, Glacial	200	100	200	L	P	244
Acetic Anhydride	200	X	200	L	P	282
Acetone	200	X	200	G	P	200
Acetonitrile	200	100	200	—	—	200
Acetophenone	200	X	200	—	—	396
Acetyl Chloride	100	100	100	—	—	—
Acetylene	200	200	200	G	—	200
Acrylic Anhydride	200*	200	200	—	—	—
Aluminum Chloride 25%	200	250	100	—	—	200
Aluminum Sulfate	—	—	—	G**	G	200
Aminoethanol	X	100	200	—	—	—
Ammonia, Conc. (Ammonium Hydroxide)	200	250	100	G	G	282
Ammonia, Dry	200	250	100	—	—	—
Ammonium Chloride 25%	250	250	100	—	—	200
Amyl Acetate	100	100	200	G	L	200
Amyl Alcohol	200*	250	200	—	—	—
Aniline	100	100	200	L	P	365
Aqua Regia	100	X	X	—	—	248
Barium Chloride	—	—	—	G**	G	200
Barium Sulfate	275	250	300	—	—	200
Benzaldehyde	200	X	200	G	—	355
Benzene	200	100	200	G	—	—
Benzene Sulfonic Acid	—	100	—	—	—	200
Benzonitrile	200	X	200	—	—	200
Benzyl Alcohol	200	100	200	L	P	401
Benzyl Chloride	100	200	100	—	—	200
Benzyl Sulfonic Acid	200	—	200	—	—	200
Bleach Solutions	200	—	200	L	P	—
Borax	275*	250	300	—	—	200
Bromine Water	100	200	X	—	—	—
Bromine, Dry	X	200	X	P	—	200
Butadiene	200	200	100	—	—	200
Butane	200	200	200	G	—	200
Butyl Acetate	100	100	200	G	L	257
Butyl Amine	X	X	X	—	—	172
Butyl Ether	200	100	200	—	—	200
Butyl Lithium 5% Solution	X	X	X	—	—	—
Calcium Chloride	275*	250	300	G	—	200
Calcium Sulfate	275*	250	300	G	—	200
Carbon Dioxide	275	100	300	—	—	200
Carbon Disulfide	200	X	200	G***	—	200
Carbon Tetrachloride	200	100	200	P	—	171

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Cellosolves	200	100	200	—	—	200
Chlorine	200	100	X	P	P	248
Chlorine Water	100	100	X	—	—	200
Chlorobenzene	100	100	200	—	—	200
Chloroethanol	200*	100	200	—	—	200
Chloroform	200	X	200	—	—	200
Chlorosulfonic Acid	—	—	—	—	—	304
Chlorosulfonic Acid 5%	200	X	X	—	—	200
Chromic Acid	100	100	X	P	P	200
Chromic Acid 50%	—	—	—	—	—	248
Citric Acid	—	—	—	G	P	200
Copper Sulfate	—	—	—	G**	G	200
Cresol	200	100	200	—	—	376
Crude Oil	200	200	200	G	—	200
Cupric Chloride	275*	250	300	—	—	200
Cyclohexanone	200	X	200	G	—	312
Decalin	—	—	—	G	L	—
Detergent	200	250	300	G	—	200
Diacetone	—	—	—	G	P	200
Dibutylamine	200	X	200	—	—	—
Dichloroethylene	100	100	100	—	—	70
Diesel Fuel	200	200	200	G	—	200
Diethanolamine	—	X	—	G	L	200
Dimethyl Phthalate	200	200	200	—	—	392
Dimethyl Sulfoxide	100*	X	200	—	—	372
Dimethylaniline	200*	X	300	—	—	200
Dimethyldichlorosilane	200	200	200	—	—	—
Dimethylformamide	100	200	200	G	—	309
Dimethylhydrazine	X	X	200	—	—	—
Diocetyl Phosphate	—	—	—	G	L	—
Diocetyl Phthalate	200*	200	200	G	—	200
Dowtherm	200*	200	200	—	—	200
Epichlorohydrin	200*	X	200	—	—	200
Ethanolamine	X	X	200	—	—	200
Ether, Diethyl	200*	X	200	G	—	214
Ethyl Acetate	200	X	100	G	—	200
Ethyl Alcohol	275*	200	300	G***	—	—
Ethyl Chloride	200	200	200	—	—	200
Ethylene Diamine	X	X	200	—	—	242
Ethylene Dichloride	200	200	100	—	—	200
Ethylene Glycol	200	250	200	G	P	200
Ethylene Oxide	200	X	X	G	P	200
Fatty Acid Esters	—	—	—	G	G	200
Ferric Chloride 25%	200	200	200	—	—	212
Fluorine, Dry	X	X	X	P	P	200
Formaldehyde	200	100	200	G	—	200
Formic Acid 37%	200	100	200	P	P	200
Freon 113	200	200	200	—	—	200

LEGEND: (X) Unacceptable (G) Good (L) Limited (P) Poor

*Coatings (10-12 mils) adequate for protection at this temperature

** Conc. solutions or slurries

*** Swelling action

****Slight yellowing

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CHEMICAL	°F.	°F.	°F.	68°F./194°F.	°F.	
Fuel Oil	300	200	200	G	G	200
Furan	100	X	200	—	—	200
Furfural	100	X	200	G	P	200
Gasoline	200	200	300	G	—	200
Glucose	—	—	—	G	G	200
Glycerine	—	100	—	G	P	200
Glycolic Acid	100	100	200	—	—	200
Greases	—	—	—	G	G	—
Hexane	200	200	200	G	—	200
Hydrobromic Acid 37%	275	250	100	—	—	200
Hydrochloric Acid, Conc.	200	200	200	—	—	248
Hydrochloric Acid 1%	—	—	—	G	P	248
Hydrochloric Acid 10%	—	—	—	G	P	248
Hydrofluoric Acid	—	200	—	—	—	200
Hydrofluoric Acid 50%	275	—	200	—	—	200
Hydrofluoric Acid 60%	—	—	—	—	—	73
Hydrogen Gas	275	275	200	G	G	200
Hydrogen Peroxide 30%	100	200	100	—	—	73
Hydrogen Sulfide	200	200	300	—	—	200
Iodine Tincture	200	X	X	—	—	200
Kerosene	300	200	200	G	—	200
Ketones	200	X	200	—	—	200
Lactic Acid	275	100	200	G	L	200
Linseed Cake	—	—	—	G	G	—
Magnesium Chloride	275	250	300	G**	G	200
Mercury	—	—	—	G	G	200
Methyl Alcohol	—	100	—	G***	—	200
Methyl Chloride	—	—	—	G	—	104
Methyl Ethyl Ketone	100	X	200	G	P	176
Methyl Isobutyl Ketone	100*	X	200	G	P	200
Milk	—	—	—	G	G	212
Mineral Oil	275	250	200	G	G	356
Morpholine	—	X	100	—	—	200
Motor Oil	275	250	200	G	G	200
Naphtha	300	200	200	G	—	212
Naphthalene	300	200	200	G	L	200
Nitric Acid, Conc.	—	—	—	—	—	248
Nitric Acid, Fuming	—	—	—	—	—	73
Nitric Acid 70%	200	150	100	P	P	248
Nitrobenzene	100*	X	200	—	—	410
Nitrogen	275	250	300	—	—	200
Nitromethane	200	X	200	—	—	200
Oleic Acid	—	—	—	G	L	200
Oxalic Acid	—	—	—	G	P	200
Oxygen	—	—	—	G	P	200
Ozone	—	—	—	L	P	200
Perchloric Acid	200	200	100	—	—	—
Perchloroethylene	200	100	100	G	—	250
Phenol	200	200	200	—	—	—
Phthaloyl Chloride	200*	200	300	—	—	—
Phosphoric Acid, Conc.	200	200	200	—	—	212
Phosphoric Acid, 50%	—	—	—	G	P	200
Phosphorus Trichloride	200	X	200	—	—	200
Picric Acid	—	—	—	L	P	200

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CHEMICAL	°F.	°F.	°F.	68°F./194°F.	°F.	
Potassium Chloride 10%	250	250	250	—	—	200
Potassium Hydroxide 50%	250	200	250	G	P	200
Potassium Hydroxide /Methanol	X	X	100	—	—	—
Potassium Nitrate	—	—	—	G****	P	200
Potassium Permanganate 10%	100*	200	100	P	—	200
Potassium Sulfate	—	—	—	G**	G	200
Pyridine	200*	X	200	L	P	200
Silicon Tetrachloride	200	X	200	—	—	—
Sodium Bicarbonate	275	250	300	—	—	200
Sodium Carbonate	275	250	300	G**	P	200
Sodium Chloride 10%	250	250	250	—	—	200
Sodium Chloride, Saturated	—	—	—	G**	G	200
Sodium Chromate 10%	250*	100	100	—	—	200
Sodium Hydroxide 50%	200	200	200	G	P	248
Sodium Hydroxide 10%	—	—	—	G	—	248
Sodium Hydroxide 5%	—	—	—	G	—	248
Sodium Hypochlorite Solution	200*	X	200	L	P	200
Sodium Sulfate	275	250	300	—	—	200
Sodium Sulfide	275	200	200	G**	—	200
Sodium Thiosulfate	275	250	300	—	—	200
Stearic Acid	—	—	—	G	L	200
Stoddard Solvent	200	200	200	—	—	200
Sulfolane	200	200	200	—	—	200
Sulfur Dioxide	275	200	200	—	—	200
Sulfuric Acid, Conc.	275	200	X	—	—	248
Sulfuric Acid, Fuming	—	—	—	—	—	73
Sulfuric Acid 1%	—	—	—	G	P	248
Sulfuric Acid 10%	200*	200	100	G	P	248
Sulfur Trioxide	—	—	—	L	P	200
Tartaric Acid	—	—	—	G	L	200
Tetrahydrofuran	100	X	200	G	—	151
Toluene	200	100	200	G	L	230
Tomato Juice	200*	200	200	G	G	200
Tributyl Phosphate	—	—	—	G	L	392
Trichloroethylene	100	100	100	G	—	200
Trichloroacetic Acid	100	100	100	—	—	384
Tricresyl Phosphate	—	—	—	G	L	200
Triethyl Phosphate	200	100	200	—	—	200
Trichlorotrifluoroethane	200	100	200	—	—	200
Triphenyl Phosphite	100	100	200	—	—	200
Trisodium Phosphate	200*	200	200	G**	G	200
Turpentine	200	200	200	G	—	200
Urea	—	—	—	G	L	200
Uric Acid	—	—	—	G	L	200
Vinegar	200*	200	200	G	—	200
Water, Tap	250	250	250	G	G	200
Water, Sea	250	250	200	G	G	200
Water, Soda	—	—	—	G	G	200
Xylene	200	200	200	G	L	200
Zinc Chloride 25%	200*	X	200	—	—	200

General Magnaplate Corp.



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