

Chemical resistance analysis Ecospeed

Chemical	Concentration %	Maximum Recommended Temperature °C
Acetaldehyde	All	NR
Acetic Acid	1-10	100
Acetic Acid	25	100
Acetic Acid	50	80
Acetic Acid	75	65
Acetic Acid Glacial	100	NR
Acetic Anhydride	100	NR
Acetone	10	-
Acetone	100	NR
Acetonitrile	100	-
Acetophenone	100	-
Acetyl Bromide	100	-
Acetyl Chloride	100	-
Acetyl Dichloride	100	-
Acetylsalicylic Acid	100	-
Acrylamide	50	25
Acrylic Acid	10	38
Acrylic Acid	25	38
Acrylic Acid	100	-
Acrylic Latex		49
Acrylonitrile	2	25
Acrylonitrile	100	-
Activated Carbon Beds, Water treatment		80
Adipic Acid	All	-
Adipic Acid (1.5sol.in water at 25°C, sol. hot water)	23	82
Alamine Amines		65
<u>Alcohols</u>		
Allyl	100	NR
Amyl	All	50
Benzyl	100	NR
Butyl	100	50
Dodecyl	100	-
Ethyl	95	25

The information and data contained in this guide is given to assist the engineer or applicator in evaluating the possible suitability of Ecospeed for a given service and no warranty or guarantee of final product performance is expressed or implied.

For specific advise or recommendation please consult our technical department.

The suitability of Ecospeed for a specific service may depend on factors other than chemical resistance, including:- mechanical conditions, thermal shock, and substrate design or condition.

Notes: NR - Not recommended
 - - Undetermined
 MST - Max stable temperature
 v - Excellent
 Sat = Saturated

Chemical	Concentration %	Maximum Recommended Temperature °C
<u>Alcohols cont'd</u>		
Furfural	100	NR
Isoamyl	100	50
Isobutyl	100	50
Isononyl	100	65
Isooctyl	100	65
Isopropyl	All	45
Lauryl	100	65
Methyl	100	NR
Polyvinyl	All	38
Alkyd Resin	100	-
Alkyl Benzene Sulfonic Acid	100	50
Allyl Chloride	All	25
Alpha Methyl Styrene	All	25
Alpha Oleum Sulphates	100	50
Alum	All	100
Aluminium Bromide	All	-
Aluminium Chloride	All	100
Aluminium Chlorohydrate	All	100
Aluminium Chlorohydroxide	50	100
Aluminium Citrate	All	-
Aluminium Desmutter & Deoxideizer		-
Aluminium Flouride	All	25
Aluminium Hydroxide	All	80
Aluminium Nitrate	10	80
Aluminium Nitrate	100	80
Aluminium Oxide Drying		-
Aluminium Potassium Sulphate	All	100
Aluminium Sulphate	All	100
Aluminium Trochloride	40	-
Amino Acids		-
2-Aminoethanol	100	-
Ammonia (Dry Gas)	100	38
Ammonia (Wet Gas)	100	-
Ammonia (Liquid)	100	NR
Ammonium Acetate	65	25
Ammonium Benzoate	All	-
Ammonium Bicarbonate	10	70
Ammonium Bicarbonate	50	70
Ammonium Bifluoride	100	65
Ammonium Bisulphite Black Liquor		80
Ammonium Bisulphite Liquor		65
Ammonium Bromate	43	70
Ammonium Bromide	43	70
Ammonium Carbonate	All	605
Ammonium Chloride	All	100
Ammonium Citrate	All	65
Ammonium Fluoride	All	65
Ammonium Hydroxide (Aqueous Ammonia)	5	80

Chemical	Concentration %	Maximum Recommended Temperature °C
Ammonium Hydroxide	10	65
Ammonium Hydroxide	20	65
Ammonium Hydroxide	29	38
Ammonium Lauryl Sulphate	30	50
Ammonium Ligno Sulphonate	50	80
Ammonium Molybdate	All	65
Ammonium Nitrate	All	100
Ammonium Oxalate	All	65
Ammonium Pentaborate	12	49
Ammonium Persulphate	All	80
Ammonium Phosphate	All	100
Ammonium Polysulphide	Sat	50
Ammonium Sulphate	All	100-
Ammonium Sulphide	Sat	50
Ammonium Sulphite	Sat	65
Ammonium Thiocyanate	20	100
Ammonium Thiocyanate	50	38
Ammonium Thioglycolate	7½	38
Ammonium Thiosulphate	60	38
Amyl Acetate	100	-
Amyl Alcohol	100	50
Amyl Chloride	100	50
Aniline	100	NR
Aniline Hydrochloride	Sat	80
Aniline Sulphate	All	100
Antimony Trichloride	50	-
Antimony Trichloride	100	-
Aqua Regia		-
Arsenic Acid	80	38
Arsenious Acid	19° Be	80
Barium Acetate	All	80
Barium Bromide	All	99
Barium Carbonate	All	100
Barium Chloride	All	100
Barium Cyanide	All	65
Barium Hydroxide	Sat	65-
Barium Sulphate	All	100
Barium Sulphide	All	80
Beer		50
Beet Sugar Liquor		80
Benzaldehyde	100	NR
Benzene	100	-
Benzene Vapour		25
Benzene Disulphonic Acid	100	-
Benzene Ethyl Benzene	1/3:2/3	38
Benzene Sulphonic Acid	100	65

Chemical	Concentration %	Maximum Recommended Temperature °C
Benzene Sulphonyl Chloride	Sat	-
Benzoic Acid	Sat	100
Benzoic Acid	All	100
O-Benzoyl Benzoic Acid	100	100
Benzoic Anhydride	All	-
Benzyl Alcohol	100	NR
Benzyl Chloride	100	NR
Benzyltrimethylammonium Chloride	60	38
O-Benzyl-P-Chlorophenol	All	-
Benzoquinones	All	-
Bisulphite (in scrubber)	Gases	80
Black Liquour (Pulp Mill)	All	80
Black Liquour (Pulp Mill) Thick	All	90
Black Liquour Recovery Furnace Gases		160
Bleach Liquour (Pulp Mill)	100	80
<u>Bleach Solutions</u>		
Calcium Hypochlorite	20	70
Chlorine Dioxide	Sat	80
Chlorine Water	Sat	80
Chlorite*	10	38
Hydrosulphite	All	-
Lithium Hypochlorite	All	65
Peroxides (Dilute)		100
Sodium Chlorite	50	-
Sodium Hypochlorite	5¼	65
Sodium Hypochlorite	10	80
Sodium Hypochlorite	15	80
Blood Sugar	All	100
Blood Proteins	20	38
Borax	100	100
Borax	Sat	100
Boric Acid	All	100-
Boric Acid	Sat	100 -
Brass Plating Solution		80
Brine, Salt	All	100
Brine, Salt	Sat	100
Brine, Chlorinated	Sat	100-
Bromine		NR
Bromine Dry Gas		38
Bromine Wet Gas		38
Bromine Water	5	80
Brown Stock		80
N-Butadiene		- -
Butanol	100	50
2-Butoxyethanol	100	38
2.2-Butoxyethoxyethanol	100	38
Butyl Acetate	100	NR
Butyl Acrylate	100	NR
Butyl Alcohol	All	50

Chemical	Concentration %	Maximum Recommended Temperature °C
Butyl Amine	All	-
Butyl Benzoate	70	-
Butyl Benzyl Phthalate	100	80
Butyl Carbitol	100	25
Butyl Cellosolve	100	38
Butyl Hypochlorite	98	NR
Butyl Phthalate	100	-
Butyl Stearate (5% in Mineral Spirits)		38
Butylene Glycol	100	70
Butylene Oxide	100	NR
Butyraldehyde	100	NR
Butyric Acid	25	100
Butyric Acid	50	100
Butyric Acid	100	25
Cadmium Chloride	All	80
Cadmium Cyanide Plating Solution		80
Calcium Bisulphide		-
Calcium Bisulphite	All	80
Calcium Bromide	All	99
Calcium Carbonate	All	80
Calcium Chlorate	All	100
Calcium Chloride	All	100
Calcium Hydroxide	15	80
Calcium Hydroxide	25	100
Calcium Hydroxide	100	100
Calcium Hypochlorite	10	70
Calcium Hypochlorite	All	70
Calcium Nitrate	All	100
Calcium Sulphate	All	100
Calcium Sulphite		80
Cane Sugar Liquor & Sweetwater	All	80
Capric Acid	All	-
Caprylic Acid (Octanoic Acid)	All	80
Carbolic Acid	1	NR
Carbolic Acid	88	NR
Carbon Dioxide Gas		100
Carbon Disulphide	100	NR
Carbon Disulphide (Gas)	Fumes	NR
Carbon Monoxide Gas		100
Carbon Tetrachloride	100	65
Carbon Tetrachloride	Vapour	80
Carbonic Acid	Sat	-
Carboxyl Ethyl Cellulose	10	65
Cashew Nut Oil	100	65
Castor Oil	100	70

Chemical	Concentration %	Maximum Recommended Temperature °C
Caustic		See Sodium and Potassium Hydroxide
Cellosolve Acetate	100	-
Cellosolve Solvent	100	-
Chlorinated Wax	All	-
Chlorine (Liquid)		NR
Chlorine, Gas (Wet or Dry)	100	100
Chlorine Dioxide	15	65
Chlorine Dioxide	35	65
Chlorine Dioxide	All	65
Chlorine Water	Sat	80
Chloroacetic Acid	25	50
Chloroacetic Acid	50	38
Chloroacetic Acid	80	NR
Chloroacetic Acid	100	NR
Chlorobenzene	100	NR
Chlorofluorocarbon	100	-
Chloroform	100	NR
Chlorophenol	100	-
Chloropyridine (Tetra)	100	50
Chlorsulphonic Acid	100	NR
Chlorotoluene	100	25
Chrome Plating		50
Chromic Acid	5	65
Chromic Acid	10	65
Chromic Acid	20	65
Chromic Acid	50	NR
Chromic Chloride	All	80
Chromium Sulphate	Sat	80
Chromium Sulphate	All	80
Citric Acid	All	100
Cobalt Chloride		80
Cobalt Citrate	12	80
Cobalt Nitrate	15	50
Coconut Oil	All	80
Cod-liver Oil		38
Copper Acetate	Sat	80
Copper Chloride	All	100
Copper Cyanide	All	100
Copper Cyanide (Plating)		70
Copper Nitrate	All	100
Copper Plating (Acid)		80
Copper sulphate	All	100
Corn Oil		80
Corn Starch	Slurry	100
Corn Sugar	All	100
Cottonseed Oil		100
Cresol (Mixed Isomers)	100	-
Cresylic Acid	All	NR
Crude Oil Sour	100	100
" Sweet	100	100
Cyclohexane	100	50
Cyclohexanone	100	-
Cyclohexamine	100	-

Chemical	Concentration %	Maximum Recommended Temperature °C
Decanol	100	50
Deionized Water	100	80
Demineralized Water	100	80
Desmut*	10	25
Detergents, Organic PH 12	100	65
Detergents, Sulphonated	All	80
Diallylphthalate	All	80
Di-Amonium Phosphate	65	100
Dibromo Phenol		NR
Dibromopropanol	All	-
Dibutyl Ether	100	80
Dibutyl Phthalate	100	80
Dibutyl Sebacate	All	50
Dicalcium Phosphate	Sat	-
Dichlorobenzene	100	NR
Dichloroethane	100	NR
Dichloroethylene	100	NR
Dichloromethane	100	NR
Dichloro Acetic Acid	20	-
Dichlorophenol (2, 4,)	100	-
2, 4-Dichlorophenoxyacetic Acid		50
Dichloropropane	100	NR
Dichloropropene	100	NR
Dichlorotoluene	100	25
Diesel Fuel	100	80
Diethanol Amine	100	50
Diethyl Amine	100	-
Diethyl Benzene	100	38
Diethyl Carbonate	100	NR
Diethyl Ketone	100	NR
Diethyl Sulphate	100	38
Di 2-Ethyl Hexyl H ₃ PO ₄	20	-
Diethylene Glycol	100	80
Diethylene Glycol N-Butyl Ether	100	25
Diethylhexyl Phosphoric (in Kerosene)	20	80
Diisobutylene	100	38
Dissobutyl Ketone		NR
Diisobutyl Phthalate	100	65
Di-iso-nonyl-phthalate	100	-
Diisopropanol Amine	100	50
Dimethyl Formamide	100	NR
Dimethyl Morpholine	100	NR
Dimethyl Phthalate	100	65
Dimethyl Propanolamine	100	-
Dimethyl Sulphoxide	100	-
2, 2-Dimethyl Thiazolidine	1	65
Diocetyl Phthalate	100	65
Diphenyl Ether	100	-
Diphenyl Oxide		25
Dipotassium phosphate	50	38

Chemical	Concentration %	Maximum Recommended Temperature °C
Dipropylene Glycol	All	80
Distilled Water	100	80
Divinyl Benzene	100	38
Dodecene	100	65
Dodecene Alcohol (Lauryl)	100	65
Dodecyl Benzene	100	-
Dodecyl Benzene Sulphonic Acid	All	50
Dodecyl Phenol	100	38
Embalming Fluid	100	-
Epichlorohydrin	100	NR
Epoxidized Castor Oil	100	38
Epoxidized Soybean Oil	100	65
Esters, Fatty Acid	100	-
Ethanol	95	-
Ethanol	50	38
Ethanol Amine	100	NR
Ether	Sat	-
Ethyl Acetate	100	NR
Ethylacetoacetate	Sat	-
Ethyl Acrylate	100	NR
Ethyl Alcohol	10	40
Ethyl Alcohol	95	25
Ethyl Benzene	100	25
Ethyl Bromide	100	NR
2-Ethyl Butyric Acid	100	-
Ethyl Chloride	100	NR
Ethyl Ether	100	NR
2-Ethyl-1-Hexanol	100	-
2-Ethyl Hexoic Acid	100	-
Ethyl Sulphate	100	38
Ethylene Chloride	100	-
Ethylene Chloroformate	100	-
Ethylene Chlorohydrin	100	38
Ethylenediamine tetraacetic acid	100	38
Ethylene Dibromide	All	-
Ethylene Dichloride	100	NR
Ethylene Glycol	All	100
Ethylene Glycol Monobutyl Ether	100	38
Eucalyptus Oil	100	60
Fatty Acids	All	100
Fatty Alcohols	100	-
Ferric Acetate	Sat	80
Ferric Chloride	All	100
Ferric Nitrate	All	100
Ferric Sulphate	All	100
Ferrous Chloride	All	100
Ferrous Nitrate	All	100
Ferrous Sulphate	All	100

Chemical	Concentration %	Maximum Recommended Temperature °C
Fertilizer, 8-8-8		-
Fertilizer, Uran		50
Fluoboric Acid	10	100
Fluoboric Acid	15	100
Fluoboric Acid	25	100
Fluoboric Acid	Sat	100
Flourine Gas		38
Fluosilicic Acid	10	80
Fluosilicic Acid	25	38
Fluosilicic Acid	32	38
Fly Ash Slurry		65
Formaldehyde	44	65
Formalin	40	-
Formic Acid	10	80
Formic Acid	98	-
Freon 11 (Solvent)		38
Fuel Oil	100	80
Furfural	5	-
Furfural	20	-
Furfural	100	NR
Furfural Alcohol	100	NR
Gallic Acid	Sat'd	38
Gasoline, Leaded	100	80
Gasoline, Aviation	100	80
Gasoline, Ethyl	100	-
Gluconic Acid	50	80
Glucose	100	100
Gluteraldehyde	50	50
Gluteric Acid	50	50
Glycerine	100	100
Glycol	All	100
Glycolic Acid (Hydroxy Acetic)	35	-
Glycolic Acid	70	38
Glyoxal	40	38
Gold Plating Solution		-
Grape Juice	All	80
Green Liquor (Pulp Mill)		100
Gypsum Slurry & Phosphoric Acid & Fluorine Water		45
Hard Chrome Plating Baths		60
Heavy Aromatic Naphtha		45
Heptane	100	80
n-Heptane	100	100
Heptanoic Acid	100	-
Herbicides		50
Hexachlorocyclopentadiene	100	-
Hexachloroethane	100	NR
Hexamethalinetetramine	65	38

Chemical	Concentration %	Maximum Recommended Temperature °C
Hexane	100	70 -
Hydraulic Fluid	100	80
Hydrazine	35	NR
Hydriodic	40	65
Hydrobromic Acid	18	80
Hydrobromic Acid	25	80
Hydrobromic Acid	48	65
Hydrobromic Acid	62	38
Hydrocarbons Aliphatic		-
Hydrocarbons Aromatic		-
Hydrochloric Acid	10	80
Hydrochloric Acid	15	80
Hydrochloric Acid	20	80
Hydrochloric Acid	37	65
Hydrochloric Acid	Fumes	100
Hydrocyanic Acid	10	100
Hydrocyanic Acid	All	100
Hydrocyanic Acid	Sat	100
Hydrofluoric Acid	10	65
Hydrofluoric Acid	20	38
Hydrofluoric Acid	40	-
Hydrofluosilicic Acid	10	80
Hydrofluosilicic Acid	25	38
Hydrofluosilicic Acid	35	38
Hydrogen Bromide, Wet Gas	100	80
Hydrogen Chloride, Dry Gas	100	100
Hydrogen Chloride, Wet Gas	100	100
Hydrogen Fluoride Gas		80
Hydrogen Peroxide	30	65
Hydrogen Sulphide	All	80
Hydrosulphite Bleach		80
Hydroxyacetic Acid	70	38
2 Hydroxy - 4 (Methithio) Butyric Acid	100	-
Hypochlorous Acid	10	80
Hypochlorous Acid	20	80
Hypophosphorous Acid	50	50
Incinerator Gases		-
Insecticides		50
Iodine, Crystals		65
Iodine Vapour		65
Iron Plating Solution		80
Iron & Steel Cleaning Bath		80
Isoamyl Alcohol	100	49
Ico-Butyl Alcohol	All	50
Iso-Butylene		-
Isodecanol	All	50
Iso-Dodecane	100	-
Isononyl Alcohol	100	65
Isooctyl Adipate	100	50
Isooctyl Alcohol	100	65

Chemical	Concentration %	Maximum Recommended Temperature
Isophorone	All	-
Isopropanol Amine	All	-
Isopropyl Acetate		-
Isopropyl Alcohol	All	50
Isopropyl Amine	All	50
Isopropyl Chloroacetate	100	-
Isopropyl Ether	All	-
Isopropyl Myristate	100	100
Isopropyl Palminate	100	100
Itaconic Acid	Sat	50
Jet Fuel	100	80
Kerosene	100	80
Lactic Acid	All	100
Lard	All	80
Latex	All	50
Lauric Acid	All	100
Lauroyl Chloride		38
Lauryl Alcohol	100	65
Lauryl Chloride	100	100
Lauryl Chloride, Crude, Acidic	100	100
Lauryl Mercaptan	100	-
Lead Acetate	All	100
Lead Acetate	Sat	100
Lead Chloride	Sat	-
Lead Nitrate	Sat	-
Levulinic Acid	All	100
Lime Slurry	Sat	-
Linear Alkyl Benzene (LAB)	100	-
Linseed Oil	100	100
Lithium Bromide	Sat	100
Lithium Carbonate	Sat	80
Lithium Chloride	Sat	95
Lithium Hydroxide	Sat	82
Lithium Hypochlorite	All	60
Magnesium Bicarbonate	Sat	75
Magnesium Bisulphate	Sat	-
Magnesium Bisulphate	All	80
Magnesium Bisulphite	All	80
Magnesium Carbonate	15	80
Magnesium Carbonate	Sat	80
Magnesium Chloride	All	100
Magnesium Fluosilicate	All	80
Magnesium Hydroxide	100	100
Magnesium Nitrate	All	99
Magnesium Phosphate	All	50

Chemical	Concentration %	Maximum Recommended Temperature °C
Magnesium Silica Fluoride	37.5	-
Magnesium Sulphate	All	100
Maleic Acid	All	100
Malic Acid	All	-
Manganese Salts	All	80
Manganese Sulphate	All	100
Mercptoacetic Acid	All	NR
Mercuric Chloride	All	100
Mercurous Chloride	All	100
Mercury	100	100
Methacrylic Acid	100	-
Methallyl Chloride	Crude	-
Methylated Spirit	100	-
Methyl Alcohol (Methanol)	100	NR
Methyl Bromide (Gas)	10	27
Methyl Cellosolve		-
Methyl Chloride	100	-
Methyl Chloroform	100	-
Methyl Ethyl Ketone	100	NR
O-Methyl Hydroxylamine Hydrochloride	30	-
Methyl Isobutyl Ketone	100	-
Methyl Styrene (Alpha)	100	25
Methyl Sulphate	100	-
Methylene Chloride	100	NR
Milk and Milk Products	All	100
Mineral Oils	100	100
Molasses	All	50
Molybdenum Disulphide		90
Molybdic Acid	25	-
Monochloroacetic Acid	50	-
Monochloroacetic Acid	100	NR
Monochlorobenzene	100	NR
Monoethanol Amine	100	NR
Monoethylene Glycol	100	-
Monomethylhydrazine		NR
Morpholine		NR
Motor Oil		100
Muriatic Acid (see HCL)		
Mustard		-
Myristic Acid	100	100
Naphtha	100	80
Naphtha, Heavy Aromatic		-
Naphthalene	100	100
Nickel Chloride	All	100
Nickel Nitrate	All	100
Nickel Plating (All)		80
Nickel Sulphate	All	100
Nicotinic Acid (Niacin)	All	-
Nitric Acid	5	65
Nitric Acid	10	50
Nitric Acid	25	50

Chemical	Concentration %	Maximum Recommended Temperature °C
Nitric Acid	40	NR
Nitric Acid	50	-
Nitric Acid Fumes		80
Nitrobenzene	100	NR
Nitrous Acid	10	-
Nonyl Phenol	100	38
Octanoic Acid (Caprylic Acid)	100	80
Octylamine Tertiary	100	-
Oil, Sour or Sweet Crude		100
Oleic Acid	100	100
Oleum (Fuming Sulphuric)		NR
Olive Oils	100	100
Orange Oil	All	80
Oxalic Acid	All	100
Ozone		90
Ozonated Water	3	-
Palm Oil		80
Palmitic Acid	100	100
Paraffin		-
Peanut Oil	100	82
Pelargonic Acid	100	-
Pentanedioic Acid	50	50
Pentasodium Triphosphate	10	-
Perchloroethylene	100	25
Perchloric Acid	10	65
Perchloric Acid	30	38
Peroxide Bleach		100
Petrol (Leaded)	100	-
Petrol (Unleaded)	100	-
Phenol (Carbolic Acid)	5	-
Phenol	88	NR
Phenol Formaldehyde Resin	All	38
Phenol Sulphonic Acid	65	NR
Phenolic Resin	100	-
Phosphoric Acid	85	100
Phosphoric Acid	100	100
Phosphoric Acid (Super Phosphoric Acid 76% P ₂ O ₅)	105	100
Phosphoric Acid (Poly Phosphoric Acid)	115	100
Phosphoric Acid Vapour		100
Phosphorous Acid	70	38
Phosphorous Chloride	Sat	-
Phosphorous Oxychloride	100	-
Phosphorous Trichloride		NR
Phthalic Acid	All	100
Phthalic Anhydride	100	-
Picric Acid (Alcoholic)	10	NR
Pine Oil Disinfectant		NR

Chemical	Concentration %	Maximum Recommended Temperature °C
Piperazine Monohydrochloride		-
<u>Plating Solutions</u>		
Brass		80
Cadmium Cyanide		80
Chrome		50
Copper		80
Copper Cyanide		70
Copper Matte		80
Gold		40
Iron		80
Lead		-
Nickel		80
Platinum		
Silver		80
Tin Fluoborate		80
Zinc		100
Platinum Plating Solutions		80
Polyacrylamide		80
Polyalkylene Glycol Ether	100	-
Polyethylene Amine	12	-
Polyol	100	65
Polyvinyl Acetate Adhesives		-
Polyvinyl Acetate Emulsions	All	50
Polyvinyl Alcohol	100	-
Potassium Aluminium Sulphate	All	38
Potassium Amyl Xanthate	5	100
Potassium Bicarbonate	10	-
Potassium Bicarbonate	50	65
Potassium Bichromate		80
Potassium Bromate		-
Potassium Bromide	100	-
Potassium Carbonate	10	38
Potassium Carbonate	50	65
Potassium Carbonate	Sat	80
Potassium Chlorate	All	-
Potassium Chloride	All	-
Potassium Cyanide	All	100
Potassium Dichromate	All	-
Potassium Fluoride	All	100
Potassium Ferricyanide	All	-
Potassium Ferrocyanide	All	100
Potassium Gold Cyanide	12	
Potassium Hydroxide	10	38
Potassium Hydroxide	25	65
Potassium Hydroxide	45	65
Potassium Iodide	All	-
Potassium Nitrate	All	50
Potassium Oxalate	All	100
Potassium Permanganate	All	65
Potassium Permanganate	Sat	100
Potassium Peroxide		100
Potassium Persulphate	All	100

Chemical	Concentration %	Maximum Recommended Temperature °C
Potassium Persulphate	Sat	100
Potassium Pyrophosphate	60	50
Potassium Silicofluoride		38
Potassium Sulphate	All	100
Potassium Sulphate	Sat	100
Propionic Acid	50	80
Propionic Acid	100	NR
Propylene Glycol	All	100
i-Propyl Palmitate		-
Pyridine	100	NR
Pyridine	10	-
Quaternary Amonium Salts	All	50
Radiation Resistance		v
Rayon Spin Bath		60
Red Liquour	All	50
Renex Detergents	All	-
Salicylic Acid (Benzoic Acid)	All	60
Salt Brine	All	100
Sea Water	All	80
Sec Alcohol Ethoxylate		-
Selenious Acid	All	100
Sequestering Agents	100	-
Silicon Tetrachloride	100	-
Silver Cyanide	Sat	-
Silver Nitrate	All	-
Silver Plating Solution		80
Slimetrol	100	-
Slimecide	100	-
Sodium Acetate	All	100
Sodium Alkyl Aryl Sulphonates	All	80
Sodium Alkyl Benzene Sulphonate	100	-
Sodium Aluminate	All	50
Sodium Benzoate	100	80
Sodium Bicarbonate	10	80
Sodium Bicarbonate	Sat	80
Sodium Bifluoride	All	50
Sodium Bisulphate	All	100
Sodium Bisulphite	Sat	100
Sodium Borate	Sat	100
Sodium Borohydride (SWS)		38
Sodium Bromate	5	60
Sodium Bromide	All	100
Sodium Butyl Xanthate	5	-
Sodium Carbonate	10	80
Sodium Carbonate	25-35	80

Chemical	Concentration %	Maximum Recommended Temperature °C
Sodium Chlorate	50	100
Sodium Chlorate	100	100
Sodium Chloride	All	100
Sodium Chloride, Sat Chlorine	Sat	90
Sodium Chlorite	10	65
Sodium Chlorite	50	38
Sodium Chromate	50	100
Sodium Cyanide	5	100
Sodium Cyanide	15	100
Sodium Cyanide	All	100
Sodium Dichromate	50	100
Sodium Dichromate	100	100
Sodium Di-Phosphate	100	100
Sodium Dodecylbenzene-Sulphanate		70
Sodium Ethylxanthate	5	-
Sodium Ferricyanide	All	100
Sodium Ferrocyanide	All	100
Sodium Fluoride*	All	80
Sodium Fluoro Silicate	All	50
Sodium Hexametaphosphate	10	38
Sodium Hydrosulphide	All	80
Sodium Hydroxide	5	80
Sodium Hydroxide	10	80
Sodium Hydroxide	25	80
Sodium Hydroxide	50	100
Sodium Hypochlorite	5¼	65
Sodium Hypochlorite	10	80
Sodium Hypochlorite	15	80
Sodium Hyposulphite	All	-
Sodium Lauryl Sulphate	All	70
Sodium Meta-Arsenite	50	-
Sodium Methacrylate PH 10.5	25	-
Sodium Monochloro Acetate (Powder)		-
Sodium Mono-Phosphate	All	100
Sodium Nitrate	All	100
Sodium Nitrite	All	100
Sodium Oxalate	All	100
Sodium Orthophosphate	50	-
Sodium Persulphate	20	50
Sodium (Acid) Phosphate	10	100
Sodium Phosphate (Tri)	All	100
Sodium Polyacrylate	25	80
Sodium Silicate	All	100
Sodium Sulphate	All	
Sodium Sulphate	Sat	100
Sodium Sulphide	All	100
Sodium Sulphite	All	100
Sodium Sulphydrate	15	80
Sodium Sulphydrate	65	80
Sodium Tartrate	All	100

Chemical	Concentration %	Maximum Recommended Temperature °C
Sodium Tetraborate	Sat	80
Sodium Thiocyanate	57	80
Sodium Thiosulphate	All	80
Sodium Tripolyphosphate	Sat	100
Sodium Xylene Sulphonate	40	70
Sodium Xylene Sulphonate	All	70
Solder Plate		65
Solvent Extract Solutions		82
Sorbital Solutions	All	70
Sour Crude Oil	100	100
Soybean Oil	100	100
Spin Bath Liquor (Rayon)		-
Spearmint Oil		38
Stannic Chloride	All	100
Stannous Chloride	All	100
Steam		100
Stearic Acid	All	100
Styrene	100	NR
Styrene Acrylic Emulsions		38
Styrene Butadiene Latex		50
Succinic Acid	All	38
Succinonitrile (Aqueous)	Sat	25
Sugar, Beet Liquor		80
Sugar, Cane Liquor	All	80
Sugar/Sucrose	All	100
Sulphamic Acid	10	100
Sulphamic Acid	25	65
Sulphamic Acid	Sat	-
Sulphanilic Acid	Sat	100
Sulphanilic Acid	All	100
Sulphated Detergents	0-50	-
Sulphite/Sulphate Liquors (Pulp Mill)		90
Sulphonated Detergents	All	70
Sulphonyl Chloride, Aromatic	100	-
4-Sulphophthalic Acid	100	-
Sulphur Chloride (Mono)	100	-
Sulphur Chloride	Fumes	94
Sulphur Dichloride	100	-
Sulphur Dioxide (Dry or Wet Gas)	100	100
Sulphur (Molten)		-
Sulphur Trioxide	100	-
Sulphur Trioxide Gas	5	100
Sulphuric Acid	5	100
Sulphuric Acid	10	100
Sulphuric Acid	25	100
Sulphuric Acid	50	100
Sulphuric Acid	70	80
Sulphuric Acid	75	38
Sulphuric Acid	76-98	NR

Chemical	Concentration %	Maximum Recommended Temperature °C
Sulphuric Acid Vapour		100
Sulphurous Acid	10	50
Sulphuryl Chloride		-
Superphosphoric Acid (76% P ₂ O ₅)	105 H ₃ PO ₄	100
Tall Oil	100	100
Tall Oil Reactor		100
Tannic Acid	All	100
Tartaric Acid	All	100
Tetrachloroethane		NR
Tetrachloroethylene	100	25
Tetrachloropentane ⁷	100	25
Tetrachloropyridine		25
Tetrahydrofuran	100	-
Tetramethylammonium Hydroxide	10	38
Tetrapotassium Pyrophosphate	60	50
Tetrasodium Pyrophosphate	60	-
Tetrasodium		
Ethylenediaminetetracetic Acid	All	50
Thioglycolic Acid	All	NR
Thioglycolic Acid	10	NR
Thionyl Chloride	100	NR
Tin Fluoborate (Plating)		100
Titanium Tetrachloride	All	-
Tobias Acid	All	100
Toluene	100	25
Toluene Di-Isocyanate (TDI)	100	-
Toluene Sulphonic Acid	All	100
Transformer Oils		100
Tributyl Phosphate		50
Trichloroacetaldehyde	100	-
Trichloroacetic Acid	50	100
Trichlorobenzene	100	-
Trichloroethane	100	38
Trichloroethylene	100	NR
Trichloromonofluoromethane	100	25
Trichlorophenol	100	-
Tricresyl Phosphate		70
Tridecylbenzene Sulphonate	All	-
Triethanolamine	100	50
Triethanolamine Lauryl Sulphate	All	-
Triethylamine	100	50
Triethylene Glycol	100	82
Trimethylamine Hydrochloride	Sat	-
Trimethylene Chlorobromide		NR
Tripropylene Glycol	100	65
Trisodium Phosphate	All	100
Trisodium Phosphate	50	100
Turpentine		65

Chemical	Concentration %	Maximum Recommended Temperature °C
Uran Fertilizer		50
Urea	50	65
Urine Sugar		-
Vanillin Black Liquor		50
Vinegar		100
Vinyl Acetate (Monomer)	100	-
Vinyl Chloride		-
Vinyl Toluene	100	25
Vinyl Trichloride		-
Water, Deionized	100	80
Water, Demineralized	100	80
water, Distilled	100	80
Water, Light	100	-
Water, Sea	All	100
Water, Sea, Desalination	1.75 x normal	80
Water, Sea, Desalination	2.75 x normal	80
Water, Steam Condensate	100	80
Whey	All	65
Whiskey		-
White Liquor (Pulp Mill)		80
Wine		-
Xylene	100	25
Zeolite	All	-
Zinc Chloride	Sat	-
Zinc Chloride	70	100
Zinc Cyanide		80
Zinc Cyanide (Plating)		80
Zinc Electrolyte		65
Zinc Fluoborate (Plating)		90
Zinc Hydrosulphite	Sat	-
Zinc Nitrate	All	100
Zinc Stearate	All	-
Zinc Sulphate	All	100

The information and data contained in this guide is given to assist the engineer or applicator in evaluating the possible suitability of Ecospeed for a given service and no warranty or guarantee of final product performance is expressed or implied.
For specific advise or recommendation please consult our technical department.

The suitability of Ecospeed for a specific service may depend on factors other than chemical resistance, including:- mechanical conditions, thermal shock, and substrate design or condition.

Notes: NR - Not recommended
- - Undetermined
MST - Max stable temperature
v- - Excellent
Sat= Saturated