



CoREZYN[®]
Isophthalic
Corrosion
Resistant
Resins

INTERPLASTIC CORPORATION
Thermoset Resins Division

Technical expertise and superior manufacturing lead to

Interplastic Corporation is the high-performance resin specialist you can count on. Since 1964, we've been working with manufacturers of reinforced plastics composites to build better, stronger, tougher and longer-lasting products.

Our technical resin specialists are problem solvers. We can define specifications to conform to your production and end-use requirements and then formulate a resin to meet those needs. We can consult with you on structural or composite questions and accurately test resin or finished product samples in our laboratories.

GENERAL PRODUCT BACKGROUND

CoREZYN isopolyester resins are suitable for a wide range of conventional FRP/GRP applications. They are premium-grade, high molecular weight, thermosetting resins formulated specifically for their physical and corrosion resistance properties.

For optimum performance and corrosion resistance, Interplastic uses the more exacting and expensive two-stage reaction for manufacturing its isophthalic resins. This process yields the best possible average molecular weight and molecular weight distribution. In addition, the carefully designed mole ratios in these resins offer a significant improvement over conventional industry standards. CoREZYN isophthalic resins deliver superior performance, resulting from an optimum balance of reaction technique, esterification to a high molecular weight, and from the correct mole ratio of unsaturated acid to aromatic acid.

All of these resins have the same isophthalic “backbone” that gives them their corrosion

resistant properties. Variations in the individual resin formulations result in a range of properties that provide different functional characteristics. This permits a great deal of versatility in finished product formulation while maintaining high corrosion resistance and physical properties.

LAMINATING RESINS

All of the CoREZYN isophthalic corrosion resistant resins are available in pre-promoted or non-promoted, and thixotropic or non-thixotropic formulations.

These resins are used most often in a pre-promoted, thixotropic form designed for an ambient condition cure to yield high-strength corrosion resistant laminates. The thixotropic properties and the additives used provide superior viscosity stability. Furthermore, the additives and the chemistry work together to maintain optimum handling characteristics such as consistently superior glass wet-out, high physical properties and excellent corrosion resistance. The product number prefix “75” describes the base resin formulation.

optimum performance in isopolyesters.

The most commonly used resins in this group are: COR75-AQ-001, COR75-AQ-010, COR75-AQ-066 and COR75-AQ-393. COR75-AA-011 Series is UL 1746-approved. COR-AQ-460 is UL 1746- and UL 1316-approved.

For those who prefer a non-promoted version, promoter/catalyst tables are available from Interplastic's Thermoset Resins Division laboratories for a methyl ethyl ketone peroxide (MEKP) or a benzyl peroxide (BPO) curing system.

FILAMENT WINDING RESINS

CoREZYN isopolyesters include formulations for ambient or high temperature cure, with or without thixotropic properties for filament winding applications. The product number prefix "26" describes this series. Many of the filament winding resins we supply are tailor-made formulations.

PULTRUSION RESINS

CoREZYN isophthalic pultrusion resins are used in diverse applications such as nuclear power plant cooling tower grids, fence stock, tubes and structural shapes, fuse bodies, walkway grids and window lineals. Formulated with a wide range of catalyst and physical capabilities, our pultrusion resins, designated with a prefix of "30," are also available as fire retardant and/or vinyl ester polymers.

ISOPOLYESTER CHEMICAL RESISTANCE

Effective chemical resistance is determined by several criteria. The principal test procedure is ASTM C-581 with a minimum exposure time of one year. The temperature and/or concentration limits shown in the tables that follow do not necessarily constitute the limits to which the laminate can be safely used; they may only represent the limits to which testing has been performed. For exposures different from these limits, we recommend using our searchable data base: www.resinwizard.com. If you need additional assistance, contact Interplastic's Thermoset Resins Division laboratory.

CURED-IN-PLACE PIPE (CIPP) RESINS

CoREZYN isophthalic resins are extensively used in CIPP applications and provide a cost-effective alternative to vinyl esters when those high performance resins are not required.

CoREZYN isophthalics are pre-promoted to provide predictable stability to meet your requirements whether you are impregnating the liner at the factory or at the job site. Resins can be modified for ambient or high temperature cure depending upon your needs.

Visit our searchable database, www.resinwizard.com, to review your particular chemical environment. Contact Interplastic's Thermoset Resins Division laboratories for additional recommendations.

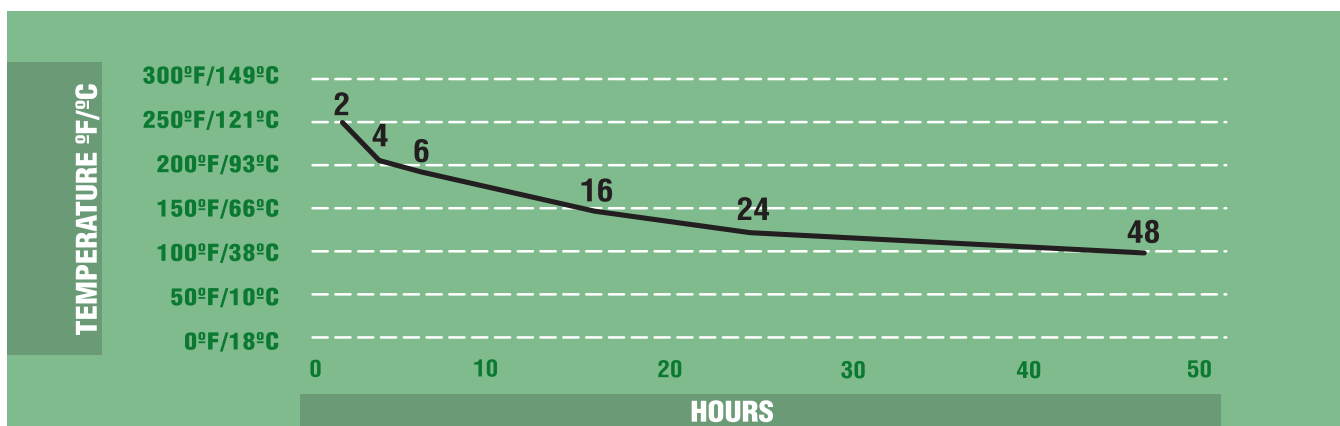
CoREZYN[®] resins offer corrosion resistance and a wide

Typical Properties of CoREZYN Isophthalic Resins for Corrosion Resistance

	COR75-AQ-001	COR75-AQ-010	COR75-AQ-393
Typical Resin Properties			
Non-Volatile %	50.5 – 55.5	52.0 – 55.5	50.5 – 55.5
Brookfield Vis. 77°F (25°C)			
#3 spindle 60 rpm			
cps	500 – 650	400 – 550	550 – 600
Thixotropic Index	2.5 – 3.5	2.2 – 3.0	2.5 – 3.5
Wt. Per Gallon, lbs.	8.7 – 9.1	8.7 – 9.1	8.7 – 9.1
Density, gm/ml	1.05 – 1.09	1.05 – 1.09	1.05 – 1.09
Gel Time @77°F (25°C), 50% MEKP gel time; 100 gram mass			
Gel Time, min.	15 – 20	15 – 20	13 – 18
Gel to Peak, min.	7 – 16	7 – 15	8 – 16
Peak Exotherm °F (°C)	350 (177) – 420 (216)	300 (149) – 370 (188)	350 (177) – 420 (216)
Liquid Color	Blue-green	Blue-green	Blue-green
Typical Properties of 1/8" Cured Clear Castings			
Flexural Strength, psi (MPa)			
ASTM D790	18,500 (128)	21,650 (149)	18,500 (128)
Flexural Modulus, psi x 10 ⁵ (MPa)			
ASTM D790	5.4 (3,724)	5.4 (3,724)	5.4 (3,724)
Tensile Strength, psi (MPa)			
ASTM D638	9,500 (66)	11,000 (75.9)	9,500 (66)
Tensile Modulus, psi x 10 ⁵ (MPa)			
ASTM D638	5.5 (3,793)	5.6 (3,862)	5.5 (3,793)
Tensile Elongation, %	1.7	2.4	1.7
Heat Distortion, °F (°C)			
ASTM D648	220 (104)	214 (101)	220 (104)
Barcol Hardness, 934-1			
ASTM D2583	45	42	45

All specifications and properties specified are approximate. Specifications and properties of material delivered may vary slightly from those given above. Interplastic Corporation makes no representations of fact regarding the material except those specified above. No person has any authority to bind Interplastic Corporation to any representation except those specified above. Final determination of the suitability of the material for the use contemplated is the sole responsibility of the Buyer. Sales representatives will assist in developing procedures to fit individual requirements.

RECOMMENDATIONS FOR A POST CURE SCHEDULE



range of functional characteristics.

CoREZYN Isopolyester Corrosion Test Results

Chemical	Concentration %	Maximum Temperature °F/°C
A		
Acetaldehyde	100	NR
Acetic Acid	10	160/71
Acetic Acid	15	170/77
Acetic Acid	25	170/77
Acetic Acid	50	140/60
Acetic Acid, Glacial	100	NR
Acetone	10	NR
Acetone	100	NR
Acetonitrile	100	NR
Acetophenone	100	NR
Acrylic Acid	10	100/38
Acrylic Acid	25	NR
Acrylic Emulsion	All	120/49
Acrylic Latex	All	120/49
Acrylonitrile	100	NR
Alcohol, Amyl	100	100/38
Alcohol, Butyl	100	80/27
Alcohol, Ethyl	10	110/43
Alcohol, Ethyl	50	110/43
Alcohol, Ethyl	100	80/27
Alcohol, Isopropyl	10	110/43
Alcohol, Isopropyl	100	90/32
Alcohol, Methyl	100	NR
Aliphatic Hydrocarbons	100	—
Alkaline Cleaners	All	NR
Allyl Alcohol	100	NR
Allyl Chloride	100	NR
Alpha Methyl Styrene	100	NR
Alum	All	170/77
Aluminum Chloride	All	170/77
Aluminum Chlorohydrate	All	150/66
Aluminum Chlorohydroxide	50	150/66
Aluminum Citrate	All	170/77
Aluminum Fluoride	All	75/24
Aluminum Hydroxide	20	150/66
Aluminum Nitrate	All	150/66
Aluminum Potassium Sulfate	All	170/77
Aluminum Sulfate	All	170/77
Ammonia Aqueous (See Ammonium Hydroxide)		
Ammonia, Dry	Gas	90/32

Chemical	Concentration %	Maximum Temperature °F/°C
Ammonia, Liquid	100	NR
Ammonia, Gaseous	All	NR
Ammonium Bicarbonate	15	130/55
Ammonium Bicarbonate	20	120/49
Ammonium Bicarbonate	100	NR
Ammonium Bisulfide	All	NR
Ammonium Carbonate	All	NR
Ammonium Chloride	All	170/77
Ammonium Citrate	Sat'd	120/49
Ammonium Fluoride	All	80/27
Ammonium Hydroxide (Aqueous Ammonia)	All	NR
Ammonium Lauryl Sulfate	100	120/49
Ammonium Nitrate	60	160/71
Ammonium Persulfate	All	NR
Ammonium Phosphate (Monobasic)	All	160/71
Ammonium Sulfate	All	170/77
Ammonium Sulfide	All	NR
Ammonium Sulfite	All	NR
Ammonium Thiocyanate	20	170/77
Ammonium Thiocyanate	50	120/49
Ammonium Thiosulfate	60	NR
Amyl Acetate	All	NR
Amyl Alcohol	All	80/27
Amyl Chloride	All	NR
Aniline	100	NR
Aniline Sulfate	Sat'd	NR
Antimony Trichloride	100	160/71
Aqua Regia (Conc. Hydrochloric: Conc. Nitric, 3:1)	Conc.	NR
Arsenious Acid	20	80/27
B		
Barium Bromide	All	—
Barium Carbonate	All	170/77
Barium Chloride	All	170/77
Barium Hydroxide	All	NR
Barium Sulfate	All	170/77
Barium Sulfide	Sat'd	NR
Beer	—	110/43
Beet Sugar Liquor	All	120/49

NR = Not Recommended

Conc. = Concentrated

Sat'd = Saturated

CoREZYN Isophthalic Corrosion Resistant Resins

CoREZYN Isopolyester Corrosion Test Results

Chemical	Concentration %	Maximum Temperature °F/°C	Chemical	Concentration %	Maximum Temperature °F/°C
Benzaldehyde	100	NR	Calcium Bisulfite	All	160/71
Benzene	100	NR	Calcium Carbonate	All	160/71
Benzene, HCl (wet)	All	NR	Calcium Chlorate	All	150/66
Benzene Sulfonic Acid	30	150/66	Calcium Chloride	All	170/77
Benzene Sulfonic Acid	Sat'd	NR	Calcium Hydroxide	15	120/49
Benzene Vapor	All	NR	Calcium Hypochlorite	All	NR
Benzoic Acid	All	170/77	Calcium Nitrate	All	170/77
Benzyl Alcohol	All	NR	Calcium Sulfate	All	170/77
Benzyl Chloride	100	NR	Calcium Sulfite	All	150/66
Biodegradable, All Purpose Liquid Cleaner	100	100/38	Cane Sugar Liquor and Sweet Water	All	110/43
Biodegradable Detergent, Liquid	100	100/38	Canning Plant Waste	—	110/43
Black Liquor (pulp mill)	All	NR	Capric Acid	5	160/71
Bleach, Calcium Hypochlorite	All	NR	Capric Acid	Sat'd	160/71
Bleach, Chlorine Dioxide	All	NR	Caprylic Acid (Octanoic Acid)	All	170/77
Bleach, Chlorine Water	All	NR	Carbon Dioxide Gas	—	180/27
Bleach, Hydrosulfite	All	NR	Carbon Disulfide	All	NR
Bleach, Sodium Hypochlorite	All	NR	Carbon Monoxide Gas	—	180/27
Borax	All	170/77	Carbon Tetrachloride	100	NR
Boric Acid	All	170/77	Carbonic Acid	All	150/66
Brine	All	170/77	Castor Oil	All	160/71
Bromine, Dry Gas	—	NR	Chlorine Dioxide	Sat'd	NR
Bromine Fumes	—	NR	Chlorine, Dry Gas	—	140/60
Bromine, Liquid	100	NR	Chlorine, Liquid	—	NR
Bromine, Wet Gas	—	NR	Chlorine Water	All	NR
Butyl Acetate	100	NR	Chlorine, Wet Gas	100	NR
Butyl Alcohol (Normal, Secondary, Tertiary)	100	80/27	Chloroacetic Acid	25	90/32
Butyl Amine	All	NR	Chloroacetic Acid	50	NR
Butyl Carbitol	80/27	NR	Chlorobenzene	100	NR
Butyl Cellosolve	100	NR	Chloroethylene (1,1,1-trichloroethylene)	—	NR
Butylene Glycol	100	150/66	Chloroform	100	NR
Butylene Oxide	100	NR	Chloropyridine	100	NR
Butyraldehyde	100	NR	Chlorosulfonic Acid	All	NR
Butyric Acid	25	120/49	Chromic Acid	5	80/27
Butyric Acid	50	80/27	Chromic Acid	20	NR
Butyric Acid	85	NR	Chromous Sulfate	All	170/77
C			Citric Acid	All	160/71
Cadmium Chloride	All	150/66	Coconut Oil	All	160/71
Calcium Bisulfide	All	160/71	Copper Acetate	All	160/71
			Copper Chloride	All	170/77

CoREZYN Isopolyester Corrosion Test Results

Chemical	Concentration %	Maximum Temperature °F/°C
Copper Cyanide	All	120/49
Copper Fluoride	All	NR
Copper Nitrate	All	150/66
Copper Sulfate	All	170/77
Corn Starch	Slurry	100/38
Corn Sugar	All	100/38
Cottonseed Oil	—	100/38
Cresol	All	NR
Cresylic Acid	All	NR
Crude Oil, Sour	—	160/71
Crude Oil, Sweet	—	160/71
Cyclohexane	All	120/49
Cyclohexanone	100	NR
D		
DETA (see Diethylenetriamine)	—	—
Deionized Water	—	150/66
Demineralized Water	—	150/66
Detergent, Biodegradable, Liquid	—	100/38
Detergents, Organic	100	100/38
Detergents, Sulfonated	—	150/66
Diallylphthalate	All	130/54
Dibromophenol	—	NR
Dibromopropanol	All	NR
Dibutyl Ether	100	80/27
Dibutyl Phthalate	100	120/49
Dichlorobenzene	100	NR
Dichloroethane	100	NR
Dichloroethylene	100	NR
Dichloromethane	100	NR
Dichlorophenol	100	NR
Dichloropropane	100	NR
Dichloropropene	100	NR
Dichloropropionic Acid	100	NR
Diesel Fuel	100	170/77
Diethanol Amine	100	NR
Diethyl Amine	100	NR
Diethyl Benzene	100	NR
Diethyl Ether (Ethyl Ether)	100	NR
Diethyl Formamide	100	NR
Diethyl Ketone	100	NR
Diethyl Maleate	100	NR

Chemical	Concentration %	Maximum Temperature °F/°C
Diethylene Glycol	100	170/77
Diethylenetriamine (DETA)	100	NR
Diisobutyl Ketone	100	NR
Diisobutylene	100	NR
Diisopropanol Amine	100	NR
Dimethyl Acetamide	70	—
Dimethyl Phthalate	100	NR
Diocetyl Phthalate	100	120/49
Dipropylene Glycol	All	170/77
Distilled Water	—	150/66
Divinyl Benzene	100	NR
E		
EDTA (See Ethylenediaminetetraacetic Acid)	—	—
Epichlorohydrin	100	NR
Esters, Fatty Acids	All	150/66
Ethanol Amine	100	NR
Ether	100	NR
Ethyl Acetate	100	NR
Ethyl Acrylate	100	NR
Ethyl Alcohol (Ethanol)	10	110/43
Ethyl Alcohol (Ethanol)	50	110/43
Ethyl Alcohol (Ethanol)	100	80/27
Ethyl Benzene	100	NR
Ethyl Bromide	100	NR
Ethyl Chloride	100	NR
Ethyl Ether	100	NR
Ethylenediaminetetraacetic Acid (EDTA)	100	NR
Ethylene Chloride	100	NR
Ethylene Dibromide	All	NR
Ethylene Dichloride	100	NR
Ethylene Glycol	All	170/77
Ethylene Glycol Monobutyl Ether	100	NR
Ethylene Oxide	100	NR
F		
Fatty Acids	All	170/77
Ferric Chloride	All	170/77
Ferric Nitrate	All	170/77
Ferric Sulfate	All	170/77

CoREZYN Isophthalic Corrosion Resistant Resins

CoREZYN Isopolyester Corrosion Test Results

Chemical	Concentration %	Maximum Temperature °F/°C
Ferrous Chloride	All	170/77
Ferrous Nitrate	All	170/77
Ferrous Sulfate	All	170/77
Fluoboric Acid	Sat'd	90/32
Fluosilicic Acid	10	NR
Fluosilicic Acid	35	NR
Formaldehyde	40	90/32
Formic Acid	10	120/49
Formic Acid	25	120/49
Formic Acid	50	NR
Formic Acid	100	NR
Fuel Oil, No. 1 and No. 2	100	140/60
Furfural	All	NR
G		
Gas, Natural	All	170/77
Gasohol	All	Contact Laboratory
Gasoline, Auto	All	Contact Laboratory
Gasoline, Aviation	All	110/43
Gasoline, Ethyl	100	Contact Laboratory
Glucose	All	120/49
Glycerine	All	170/77
Glycol, Ethylene	All	170/77
Glycol, Propylene	All	170/77
Glycolic Acid	50	120/49
Green Liquor (pulp mill)	—	NR
H		
Heating Oil	—	90/32
Heptane	100	140/60
Herbicides	—	Contact Laboratory
Hexane	100	120/49
Hydraulic Fluid	100	100/38
Hydrazine	100	NR
Hydrobromic Acid	25	120/49
Hydrochloric Acid	10	140/60
Hydrochloric Acid	20	120/49
Hydrochloric Acid	36	100/38
Hydrochloric Acid and Organics	—	NR
Hydrocyanic Acid	10	75/24
Hydrofluoric Acid	1	NR
Hydrofluoric Acid	10	NR
Hydrofluoric Acid	20	NR

Chemical	Concentration %	Maximum Temperature °F/°C
Hydrofluoric: Nitric Acids	Mixtures	Contact Laboratory
Hydrofluosilicic Acid	10	NR
Hydrofluosilicic Acid	30	NR
Hydrogen Bromide, Dry Gas	—	100/38
Hydrogen Bromide, Wet Gas	—	80/27
Hydrogen Chloride Gas, Dry	100	120/49
Hydrogen Chloride Gas, Wet	100	120/49
Hydrogen Peroxide	5	120/49
Hydrogen Peroxide	50	NR
Hydrogen Sulfide, Dry Gas	—	140/60
Hydroiodic Acid	10	80/27
Hypochlorous Acid	10	100/38
Hypochlorous Acid	20	80/27
I		
Insecticides	Contact Laboratory	80/27
Iodine Vapor	100	—
Isoamyl Alcohol	100	—
Isobutyl Alcohol	All	—
Isooctyl Adipate	100	—
Isooctyl Alcohol	100	—
Isopropyl Alcohol	10	110/43
Isopropyl Alcohol	100	90/32
Isopropyl Palmitate	100	180/82
J		
Jet Fuel	100	120/49
Jet Fuel A	100	90/32
Jet Fuel (JP-4)	100	160/71
K		
Kerosene	100	120/49
Kraft Liquid	—	160/71
L		
Lactic Acid	All	160/71
Latex	All	120/49
Lauric Acid	All	160/71
Lauryl Alcohol	100	120/49
Lead Acetate	All	120/49
Lead Nitrate	All	120/49
Levulinic Acid	All	160/71
Light Water	100	120/49
Lime Slurry	All	170/77
Linoleic Acid	100	160/71

CoREZYN Isopolyester Corrosion Test Results

Chemical	Concentration %	Maximum Temperature °F/°C
Linseed Oil	All	160/71
Liquid Chlorine	100	NR
Lithium Bromide	All	170/77
Lithium Chloride	All	170/77
M		
Magnesium Bicarbonate	All	130/54
Magnesium Carbonate	All	150/66
Magnesium Chloride	All	170/77
Magnesium Hydroxide	All	100/38
Magnesium Nitrate	All	160/71
Magnesium Sulfate	All	150/66
Maleic Acid	All	140/60
Maleic Anhydride	100	120/49
Manganese Chloride	All	140/60
Manganese Sulfate	All	140/60
Mercaptan, Aromatic	100	NR
Mercaptopropionic Acid	100	NR
Mercuric Chloride	100	170/77
Mercurous Chloride	All	170/77
Mercury	100	170/77
Methacrylic Acid	100	NR
Methyl Alcohol (Methanol)	100	NR
Methyl Ethyl Ketone	100	NR
Methyl Isobutyl Ketone	100	NR
Methyl Styrene	100	NR
Methylene Chloride	All	NR
Milk and Milk Products	All	140/60
Milk Waste	All	170/77
Mineral Oils	100	170/77
Monochloroacetic Acid	80/27	NR
Monochlorobenzene	100	NR
Monoethanolamine	100	NR
Monomethylhydrazine	100	NR
Morpholine	100	NR
Motor Oil	100	140/60
N		
Naphtha	100	140/60
Naphthalene	100	140/60
Nickel Chloride	All	160/71
Nickel Nitrate	All	160/71
Nickel Sulfate	All	170/77

Chemical	Concentration %	Maximum Temperature °F/°C
Nitric Acid	5	130/54
Nitric Acid	10	90/32
Nitric Acid	20	NR
Nitric Acid	35	NR
Nitric: Sulfuric:		
Hydrochloric Acids	Mixtures	NR
Nitrobenzene	100	NR
Nitrogen	100	160/71
Nitrogen Tetroxide	100	NR
Nitrophenol	100	NR
Nitrous Acid	10	120/49
Nitrous Acid	100	NR
O		
Octanoic Acid	Sat'd	160/71
Oil, Crude Storage Tank Bottoms	—	130/54
Oil, Heating	—	90/32
Oil, Low Sulfur Crude	—	120/49
Oil, Medium Sulfur Crude	—	90/32
Oil, Mid-Continent Sweet	—	90/32
Oil, Sour Crude	—	160/71
Oil, Sweet Crude	—	160/71
Oleic Acid	All	170/77
Oleum (Fuming Sulfuric Acid)	—	NR
Olive Oil	100	170/77
Organic Detergents, pH <12	All	80/27
Oxalic Acid	15	170/77
Oxalic Acid	100	170/77
Ozone	—	NR
P		
Palm Oil	100	160/71
Palmitic Acid	100	160/71
Paper Mill Liquors	All	Consult Laboratory
Paraffin Wax	100	—
Perchloric Acid	All	NR
Perchloroethylene	100	NR
Phenol	5	NR
Phenol	100	NR
Phosphate Salts	25	90/32
Phosphoric Acid	80/27	140/60
Phosphoric Acid, Super	105	90/32
Phosphoric: Nitric	Mixtures	NR

CoREZYN Isophthalic Corrosion Resistant Resins

CoREZYN Isopolyester Corrosion Test Results

Chemical	Concentration %	Maximum Temperature °F/°C	Chemical	Concentration %	Maximum Temperature °F/°C
Phosphorus Trichloride	100	90/32	Sewer Gas; H ₂ S	—	90/32
Phthalic Acid	100	160/71	Silicic Acid (hydrated silica)	All	160/71
Pickling Acids, Sulfuric and Hydrochloric	—	Consult Laboratory	Silver Nitrate	All	160/71
Picric Acid, Alcoholic	—	NR	Silver Plating Solution	—	Consult Laboratory
Pine Oil	100	NR	Soaps	All	120/49
Plating Solution	—	Consult Laboratory	Sodium Acetate	All	160/71
Polyphosphoric Acid	115	120/49	Sodium Aluminate	All	NR
Polyvinyl Acetate Emulsion	All	120/49	Sodium Benzoate	All	160/71
Polyvinyl Alcohol	100	100/38	Sodium Bicarbonate	All	100/38
Potassium Acetate	All	160/71	Sodium Bichromate	100	170/77
Potassium Aluminum Sulfate	All	170/77	Sodium Bisulfate	All	160/71
Potassium Bicarbonate	All	NR	Sodium Bisulfite	All	170/77
Potassium Bromide	All	160/71	Sodium Borate	All	170/77
Potassium Carbonate	10	80/27	Sodium Bromide	All	170/77
Potassium Carbonate	50	NR	Sodium Carbonate (Soda Ash)	All	NR
Potassium Chloride	All	160/71	Sodium Chlorate	All	NR
Potassium Dichromate	All	170/77	Sodium Chloride	All	160/71
Potassium Ferricyanide	All	140/60	Sodium Chlorite	10	NR
Potassium Ferrocyanide	All	140/60	Sodium Cyanide	10	120/49
Potassium Hydroxide	All	NR	Sodium Dichromate	All	120/49
Potassium Nitrate	All	170/77	Sodium Diphosphate	Sat'd	170/77
Potassium Permanganate	All	100/38	Sodium Ferricyanide	All	170/77
Potassium Persulfate	All	80/27	Sodium Ferrocyanide	All	170/77
Potassium Sulfate	All	170/77	Sodium Fluoride	All	NR
Propylene Glycol	All	170/77	Sodium Hydroxide	All	NR
Pyridine	100	NR	Sodium Hypochlorite	All	NR
Q			Sodium Hyposulfite	20	150/66
Quaternary Ammonium Salts	All	Consult Laboratory	Sodium Monophosphate	All	170/77
R			Sodium Nitrate	Sat'd	170/77
Radioactive Waste	—	Consult Laboratory	Sodium Nitrite	All	170/77
S			Sodium Sulfate	All	170/77
Salicylic Acid	Sat'd	90/32	Sodium Sulfide	10	80/27
Sea Water	—	160/71	Sodium Sulfide	Sat'd	NR
Septic System	—	90/32	Sodium Sulfite	All	NR
Sewage, Anaerobic	—	90/32	Sodium Tetraborate	All	170/77
Sewage, Municipal, Treated and Untreated	—	90/32	Sodium Thiocyanate	All	80/27
Sewage, Septic Tank	—	90/32	Sodium Thiosulfate	All	120/49
Sewage Treatment	—	90/32	Soy Sauce	All	—
Sewage Treatment Fumes	—	90/32	Soya Oil	100	170/77
			Soybean Oil	—	170/77
			Soybean Oil, Epoxydized	100	—

CoREZYN Isopolyester Corrosion Test Results

Chemical	Concentration %	Maximum Temperature °F/°C
Spearmint Oil	All	—
Stannic Chloride	All	170/77
Stannous Chloride	All	170/77
Stearic Acid	100	170/77
Styrene	100	NR
Sucrose	All	140/60
Sugar, Beet and Cane Liquor	All	160/71
Sugar, Sucrose	All	140/60
Sulfamic Acid	15	130/54
Sulfated Detergents	0-50	160/71
Sulfite Liquors	—	150/66
Sulfonyl Chloride, Aromatic	—	NR
Sulfur Dioxide, Dry or Wet (Vapors)	—	170/77
Sulfur Trioxide, Dry or Wet	100	NR
Sulfuric Acid	25	170/77
Sulfuric Acid	50	150/66
Sulfuric Acid	93	NR
Sulfuric Acid	Fumes	170/77
Sulfuric: Chromic Acid	Mixtures	NR
Sulfurous Acid	10	NR
Sulfuryl Chloride	100	NR
T		
Tannic Acid	All	170/77
Tartaric Acid	All	170/77
Tetrachloroethane	100	NR
Tetrachloropyridine	100	NR
Tetrahydrofuran	100	NR
Tetrasodium Pyrophosphate	5	125
Thionyl Chloride	100	NR
Toluene	100	NR
Toluene Di-isocyanate (TDI)	100	NR
Transformer Oil		
Mineral Types	100	100/38
Non-Chlorinated	All	NR
Tributyl Phosphate	100	120/49
Trichloroacetic Acid	—	NR
Trichloroethylene	—	NR
Trichloromethane (Chloroform)	100	NR
Trichlorophenol	100	NR

Chemical	Concentration %	Maximum Temperature °F/°C
Triethanolamine	All	NR
Triethylamine	All	NR
Trisodium Phosphate	Sat'd	NR
Turpentine	All	NR
U		
Urea	All	140/60
V		
Vegetable Oils	All	170/77
Vinegar	100	150/66
Vinyl Acetate	All	NR
Vinyl Toluene	100	NR
W		
Water, City	100	150/66
Water, Deionized	—	150/66
Water, Distilled	—	150/66
Water-Oil Separation	—	90/32
Water, Salt	—	160/71
Water, Sea	—	160/71
Weed Killers		NR
Wine	All	80/27
Wine Fermentation	—	90/32
Winery Waste	—	90/32
X		
Xylene	All	NR
Y		
Z		
Zinc Chlorate	All	170/77
Zinc Chloride	All	170/77
Zinc Nitrate	All	170/77
Zinc Sulfate	All	170/77
Zinc Sulfite	All	150/66



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