

UNSATURATED POLYESTER RESIN

CHEMICAL RESISTANCE CHART MAX RECOMMENDED TEMPERATURE (DEG.CENTIGRADE)

GRADE →	Conc %	ORTHO	ISO-CR	VER-R	VER-EPN
CHEMICAL ↓					
Acetic Acid	10	25	60	80	100
Acetic Acid	25	N.R	50	80	100
Acetic Acid	75	N.R	25	60	65
Acetone	100	N.R	N.R	N.R	N.R
Aluminium Chloride	All	-	70	80	100
Aluminium Sulfate	All	-	70	80	100
Ammonia	gas	N.R	N.R	N.R	N.R
Ammonium Chloride	all	40	70	80	95
Ammonium Fluoride*	10	N.R	25	65	75
Ammonium Hydroxide*	10	N.R	N.R	N.R	65
Ammonium Nitrate	20	N.R	40	80	100
Ammonium Sulfate	All	25	70	80	95
Amyl Alcohol	All	-	40	45	90
Aniline	100	N.R	N.R	N.R	20
Barium Carbonate	all	-	-	80	100
Barium Chloride	all	40	70	80	100
Benzene	100	N.R	N.R	N.R	35
Benzoic Acid	all	25	60	80	100
Boric Acid	all	40	70	80	100
Bromine gas	all	N.R	N.R	N.R	N.R
Butyl Acetate	all	N.R	N.R	N.R	25
Butyl Alcohol	all	N.R	35	35	50
Butyric Acid	50	-	40	75	100
Calcium Chlorate	all	-	60	75	100
Calcium Chloride	all	40	70	80	100
Calcium Hydroxide *	all	N.R	35	80	80
Calcium Hypochlorite*	10	N.R	25	70	65
Carbon Dioxide	gas	50	80	75	90

CONTD....2

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GRADE →	Conc %	ORTHO	ISO-CR	VER-R	VER-EPN
CHEMICAL ↓					
Carbon Tetrachloride	100	N.R	N.R	30	75
Chlorine, dry./wet	Gas	N.R	25	75	100

Chlorine Dioxide	-	N.R	N.R	80	90
Chlorine Water	All	N.R	25	75	100
Chloroacetic Acid	25	NR	25	50	50
Chlorobenzene	-	N.R	N.R	N.R	35
Chloroform	-	N.R	N.R	N.R	N.R
Chromic Acid	5/20	N.R	25	65	65
Citric Acid	All	25	70	75	100
Copper Chloride	All	40	70	75	100
Copper Cynide	All	-	70	75	100
Copper Sulfate	All	40	70	75	100
Crude Oil	-	30	70	75	85
Dibutyl Phthalte	100	25	70	75	100
Dichlorobenzene	-	N.R	N.R	N.R	45
Diesel Fuel	-	25	60	75	90
Diethylene glycol	100	40	70	75	100
Diethyl Phthalate	100	25	70	75	100
Dimethyl Phthalate	100	25	60	65	80
Ethyl Alcohol	All	N.R	30	40	45
Ethyl Chloride	10	N.R	N.R	N.R	25
Ethylene Dichloride	100	N.R	N.R	N.R	25
Ethylene Glycol	100	40	70	75	100
Fatty Acids	100	25	70	75	100
Ferric III Chloride	All	40	70	75	100
FerricIII Nitrate	All	30	70	75	100
Ferric III Sulfate	All	40	70	75	100
Ferrous II Chloride	All	30	70	75	100
Ferrous II Nitrate	All	30	70	75	100
Ferrous II sulfate	All	40	70	75	100
Formic Acid	10	NR	30	70	80
Gasoline	-	25	50	75	80
Glycerol	100	40	70	75	100
Heptane	100	25	50	60	90
Hydrochloric Acid	10	N.R	70	75	100
Hydrochloric Acid	20	N.R	50	75	100
Hydrochloric acid	37	N.R	25	70	80
Hydrofluric Acid*	10	N.R	N.R	65	65
GRADE →	Conc %	ORTHO	ISO-CR	VER-R	VER-EPN
CHEMICAL↓					
Hydrogen Peroxide	5	N.R	25	65	65
Hydrogen Sulfide	gas	-	25	75	100
Isopropyl Alcohol	All	N.R	40	40	50
Kerosine		-	70	75	80
Lactic Acid	All	NR	50	75	100
Lead Acetate	All	40	70	75	100

Linseed Oil	100	40	80	75	100
Magnesium Carbonate	All	25	70	75	80
Magnesium Chloride	All	40	70	75	80
Magnesium Sulfate	All	40	70	75	80
Mercuric I Chloride	All	40	70	75	80
Mercuric II Chloride	All	40	70	75	80
Methyl Alcohol	All	N.R	N.R	30	35
Methylene Chloride	100	N.R	N.R	N.R	N.R
Methyl Ethyl Ketone	100	N.R	N.R	N.R	20
Naptha	100	-	50	60	90
Naphtalene	100	-	60	65	90
Nickel Chloride	All	40	70	75	100
Nickel Nitrate	All	40	70	75	100
Nickel Sulfate	All	40	70	75	100
Nitric Acid	5	N.R	25	70	80
Nitric Acid	10/20	N.R	N.R	49	65
Nitrobenzene	100	N.R	N.R	N.R	35
Oleic Acid	All	40	70	75	90
Oxalic Acid	All	N.R	40	75	35
Perchloric Acid	20	N.R	N.R	50	60
Phenol	10	N.R	N.R	--	50
Phosphoric Acid	10	40	70	75	85
Phosphoric Acid	20	30	70	75	85
Phosphoric acid	50	N.R	40	70	85
Phthalic Anhydride	All	-	70	70	90
Pot. Bicarbonate	All	25	70	65	80
Pot. Carbonate*	10	N.R	N.R	65	80
Potassium Chloride	All	40	70	65	80

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Pot. Dichromate	all	25	-	35	80
Pot. Ferricyanide	all	-	--	70	80
Pot. Ferrocyanide	all	-	-	70	80

Pot. Hydroxide	10	NR	NR	65	65
Potassium Nitrate	all	40	70	60	70
Pot. Permanganate	all	NR	70	70	90
Pot. Sulfate	all	40	70	75	90
Propylene Glycol	all	40	70	75	100
Silver Nitrate	all	NR	60	70	90
Sodium Bicarbonate	all	-	70	75	80
Sodium Carbonate*	10	NR	25	80	80
Sodium sulfide	all	NR	NR	75	90
Stannous II Chloride	all	40	70	75	90
Stannic IV Chloride	all	40	70	75	90
Stearic Acid	all	25	70	75	100
Sulphur Dioxide	Dry gas	-	80	80	100
Sulphuric Acid	10	40	70	75	100
Sulphuric Acid	50	25	70	75	100
Sulphuric Acid	70	N.R.	25	70	80
Sulphuric Acid	98	N.R.	N.R.	N.R.	N.R.
Sulphurtrioxide	gas	-	25	25	95
Tannic Acid	all	-	70	75	100
Toluene	100	N.R.	25	25	45
Trichloro Ethylene	100	N.R.	N.R.	N.R.	N.R.
Trisodium phosphate	all	N.R.	75	80	100
Water Demineralized	-	45	65	70	90
Water distilled	-	45	65	70	90
Water Sea	-	45	65	70	90
Xylene	100	N.R.	-	30	45
Zinc Chloride	all	40	60	75	80
Zinc Sulfate	all	40	60	75	80

N.R= Not Recommended.

A blank space in the table indicates no data available at the time
Temperature ratings were assigned.