

TABLE 7.2: METAL, CARBON, CERAMIC, RUBBER, PLASTIC AND WOOD CONSTRUCTION MATERIALS—CORNING (continued)

MATERIALS	RUBBERS					THERMOPLASTICS																
	HARD RUBBER (Natural)	SOFT RUBBER (Natural)	NEOPRENE	BUTADIENE DERIVATIVES	NITRILE Rubber (Chemigum)	VITON	ASPHALTIC BITUMASTIC	CELLULOSE ACETATE	CELLULOSE ACETATE BUTYRATE	ETHYL CELLULOSE (Ethocel)	CELLULOSE NITRATE	ACRYLIC (Lucite, Plexiglas)	COUMARONE RESINS	POLYETHYLENE	POLYVINYL CHLORIDE. Rigid or Unplast.	TYGON (P. V. C. & Copolymers)	SARAN (Vinyl chloride, vinylidene chloride)	KEL-F (Polytrifluorochloroethylene)	TEFLON (Polytetrafluoroethylene)	USCOLITE CP (styrene-acrylonitrile-butadiene)	PENTON (Chlorinated Polyether)	
ACETIC ACID, 100%, CH ₃ COOH	x	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ACETIC ACID, Dilute	x	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ACETIC ANHYDRIDE, (CH ₃ CO) ₂ O	x	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ACETONE, CH ₃ COCH ₃	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ACETYL CHLORIDE, CH ₃ COCl																						
ALUMINUM CHLORIDE, AlCl ₃	x	x	x	x	x	x																
" HYDROXIDE, Al(OH) ₃																						
" SULFATE, Al ₂ (SO ₄) ₃	x	x	x	x	x	x																
ALUMS, CONC., Al ₂ (SO ₄) ₃ · K ₂ SO ₄ , etc.																						
ALUMS, DILUTE	x	x	x	x	x	x																
AMINES, various	-	-	-	-	-	-																
AMMONIA (Gas), Moist, NH ₃	-	-	-	-	-	-																
AMMONIUM CARBONATE, (NH ₄) ₂ CO ₃	x	x	x	x	x	x																
" CHLORIDE, NH ₄ Cl	x	x	x	x	x	x																
" HYDROXIDE, NH ₄ OH	-	-	-	-	-	-																
" NITRATE, NH ₄ NO ₃	-	-	-	-	-	-																
PERSULFATE, (NH ₄) ₂ S ₂ O ₈																						
PHOSPHATE, (NH ₄) ₂ H ₂ PO ₄																						
" (NH ₄) ₂ HPO ₄																						
" (NH ₄) ₂ PO ₄	x	x	x	x	x	x																
" SULFATE, (NH ₄) ₂ SO ₄	x	x	x	x	x	x																
AMYL ACETATE, C ₅ H ₁₁ COOCH ₃	-	-	-	-	-	-																
" ALCOHOL, C ₅ H ₁₁ OH	-	-	-	-	-	-																
" CHLORIDE, C ₅ H ₁₁ Cl	-	-	-	-	-	-																
ANTIMONY TRICHLORIDE, SbCl ₃																						
ARSENIC ACID, H ₃ AsO ₄	x																					
BARIUM CARBONATE, BaCO ₃																						
" HYDROXIDE, Ba(OH) ₂																						
" SULFIDE, BaS	x																					
BENZALDEHYDE, C ₆ H ₅ CHO	-	-	-	-	-	-																
BENZENE, C ₆ H ₆	-	-	-	-	-	-																
BENZOIC ACID, C ₆ H ₅ COOH	-	-	-	-	-	-																
BORAX, Na ₂ B ₄ O ₇	x	x	x	x	x	x																
BORIC ACID, H ₃ BO ₃	x	x	x	x	x	x																
BROMINE, Wet, Br ₂	-	-	-	-	-	-																
BUTANOL, C ₄ H ₉ OH	-	-	-	-	-	-																
BUTYL ACETATE, C ₄ H ₉ COOCH ₃	-	-	-	-	-	-																
BUTYRIC ACID, C ₄ H ₇ COOH	x	-	-	-	-	-																
CALCIUM BISULFATE, CaHSO ₄	x	x	x	x	x	x																
" BISULFITE, CaHSO ₃	x	x	x	x	x	x																
CALCIUM CARBONATE, CaCO ₃	x	x	x	x	x	x																
" CHLORATE, CaClO ₃	x	x	x	x	x	x																
" CHLORIDE, CaCl ₂	x	x	x	x	x	x																
" HYDROXIDE, Ca(OH) ₂	x	x	x	x	x	x																
" HYPOCHLORITE, Ca(OCl) ₂	x	x	x	x	x	x																
" SULFATE, CaSO ₄	x	x	x	x	x	x																
CARBON DIOXIDE (Dry), CO ₂	x	x	x	x	x	x																
" " (Wet or H ₂ CO ₃)	x	x	x	x	x	x																

(continued)

TABLE 7.2: METAL, CARBON, CERAMIC, RUBBER, PLASTIC AND WOOD CONSTRUCTION MATERIALS—CORNING (continued)

MATERIALS	RUBBERS				THERMOPLASTICS																
	HARD RUBBER (Natural)	SOFT RUBBER-(Natural)	NEOPRENE	BUTADIENE DERIVATIVES	NITRILE Rubber (Chemigum)	VITON	ASPHALTIC, BITUMASTIC	CELLULOSE ACETATE	CELLULOSE ACETATE-BUTYRATE	ETHYL CELLULOSE (Ethocel)	CELLULOSE NITRATE	ACRYLIC (Lucite, Plexiglas)	COUMARONE RESINS	POLYETHYLENE	POLYVINYL CHLORIDE, Rigid or Unplast.	TYGON (P. V. C. & Copolymers)	SARAN (Vinyl chloride, vinylidene chloride)	KEL-F (Polytrifluorochloroethylene)	TEFLON (Polytetrafluoroethylene)	USCOLITE CP (styrene-acrylonitrile-butadiene)	PENTON (Chlorinated Polyether)
CARBON DISULFIDE, CS ₂	0	0	0	x	-	x	0	0	0	0	x	x	x	0	0	0	0	0	0	0	0
CARBON TETRACHLORIDE (Moist) CCl ₄	0	0	0	x	-	x	0	0	0	0	x	x	x	0	0	0	0	0	0	0	0
CHLORACETIC ACID, ClCH ₂ CO ₂ H	-	-	-	x	-	x	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CHLORIC ACID, HClO ₃	-	-	-	x	-	x	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CHLORINE (DRY), Cl ₂	x	-	0	-	x	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
" (Wet), Cl ₂	x	x	0	x	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CHLOROBENZENE, C ₆ H ₅ Cl	0	0	0	0	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CHLOROFORM, CHCl ₃	0	0	0	0	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CHROMIC ACID, Cr O ₃ sol'n	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COPPER CHLORIDE, Cu Cl ₂	-	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
" CYANIDE, Cu(CN) ₂	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
" NITRATE, Cu (NO ₃) ₂	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
" SULFATE, Cu SO ₄	x	x	x	x	0	x	x	x	x	x	x	0	x	x	x	x	x	x	x	x	x
CRESYLIC ACID	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DICHLORETHANE, C ₂ H ₄ Cl ₂	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DIETHYLAMINE, (C ₂ H ₅) ₂ NH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DIPHENYL, C ₆ H ₅ C ₆ H ₅	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ETHERS, Various	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ETHYL ACETATE, C ₂ H ₅ COOCH ₃	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
" ALCOHOL, C ₂ H ₅ OH	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
ETHYL CHLORIDE, C ₂ H ₅ Cl	0	-	-	-	x	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ETHYLENE CHLOROHYDRIN, Cl (C ₂ H ₄) ₂ OH	-	-	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
" DICHLORIDE, C ₂ H ₄ Cl ₂	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
" GLYCOL, CH ₂ OHCH ₂ OH	-	-	-	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
OXIDE, CH ₂ OCH ₂	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FATTY ACIDS, Various	0	0	0	x	x	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FERRIC CHLORIDE, FeCl ₃	x	x	-	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
" NITRATE, Fe(NO ₃) ₃	0	x	-	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
" SULFATE, Fe ₂ (SO ₄) ₃	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
FERROUS CHLORIDE, Fe Cl ₂	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
" SULFATE, FeSO ₄	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
FLUORINE, F ₂	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FORMALDEHYDE, CH ₂ O	-	-	-	x	0	x	0	0	0	0	x	x	x	x	-	-	-	-	-	-	-
FORMIC ACID, HCOOH	-	0	-	x	x	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FUEL OIL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GALLIC ACID, (OH) ₃ C ₆ H ₂ COOH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GASOLINE, Refined	-	0	-	x	x	0	0	0	0	0	x	x	x	x	-	-	-	-	-	-	-
GLYCEROL, CH ₂ OHCHOHCH ₂ OH	x	x	-	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
HYDROBROMIC ACID, HBr	-	x	-	x	0	x	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HYDROCHLORIC ACID, (Conc.), HCl	x	x	-	x	0	-	x	0	0	0	0	0	0	0	0	0	0	0	0	0	0
" (Dilute)	x	x	-	x	-	-	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
" (Dry Gas)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HYDROCYANIC ACID, (Conc.), HCN	-	-	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
" (Dil. & Gas)	-	-	-	-	-	-	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
HYDROFLUORIC ACID, (Conc.), HF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
" (Dilute)	x	x	-	x	x	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HYDROFLUOSILICIC ACID, H ₂ SiF ₆	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HYDROCARBONS (Aliphatic)	0	0	x	x	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

(continued)

TABLE 7.2: METAL, CARBON, CERAMIC, RUBBER, PLASTIC AND WOOD CONSTRUCTION MATERIALS—CORNING (continued)

MATERIALS X - Very Good Service + - Moderate Service - - Limited or Variable Service o - Unsatisfactory Blank - No Information	RUBBERS					THERMOPLASTICS															
	HARD RUBBER (Natural)	SOFT RUBBER-(Natural)	NEOPRENE	BUTADIENE DERIVATIVES	NITRILE Rubber (Chemigum)	ASPHALTIC BITUMASTIC	CELLULOSE ACETATE	CELLULOSE ACETATE BUTYRATE	ETHYL CELLULOSE (Ethocel)	CELLULOSE NITRATE	ACRYLIC (Lucite, Plexiglas)	COUMARONE RESINS	POLYETHYLENE	POLYVINYL CHLORIDE, Rigid or Unplast.	TYGON (P. V. C. & Copolymers)	SARAN (Vinyl chloride, vinylidene chloride)	KEL-F (Polytrifluoroethylene)	TEFLON (Polytetrafluoroethylene)	USCOLITE CP -(styrene-acrylonitrile-butadiene)	PENTON (Chlorinated Polyester)	
HYDROCARBONS (Aromatic)	o	o	o				x							o						x	
HYDROGEN GAS, H ₂					x																
HYDROGEN PEROXIDE (Conc.), H ₂ O ₂	-	-	o	x						x				x	-	x	x	x	-	x	
" " (Dilute)	-	-	o	x	x					x	x			x	x	x	x	x		x	
HYDROGEN SULFIDE (Dry) H ₂ S	x	x	x		x	x								x	x	x	x	x	x	x	
" " (Wet)					x									x	x	x	x	x	x	x	
IODINE, I, Wet	-	-	o	-	x	o	-							o	-	x	x	x		x	
IODIFORM, CHI ₃					-															x	
KEROSENE	o	o	o		x					x				x	x	x	x	x	x	x	
KETONES, Various	o	o			o	o	o			-	o			o	o	o	o	+	x	o	
LACTIC ACID, CH ₃ CHO ₂ COOH	x	-	x		+		-	x	-					x	x	x	x	x	x	-	
LEAD ACETATE, Pb(CH ₃ COO) ₂						x								x	x	x	x	x	x	x	
MAGNESIUM CHLORIDE, Mg Cl ₂	x	x	x	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
" HYDROXIDE, Mg (OH) ₂	x	x	x			x								x	x	x	x	x	x	x	
" SULFATE, Mg SO ₄	x	x	x	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
MALEIC ACID, CO ₂ H C, H ₂ CO ₂ H					+	o								-	-	x	x	x	x	x	
MALIC ACID, CO ₂ H CH ₂ CHO ₂ CO ₂ H	x	x	x	x										x	x	x	x	x	x	x	
MERCURIC CHLORIDE, Hg ₂ Cl ₂	x	-			x	x	x							-	x	x	x	x	x	x	
MERCURY, Hg					x	x								-	x	x	x	x	x	x	
METHANOL, Conc., CH ₃ OH	-	x	-		x	-	x			o	-			x	x	x	x	x	x	x	
" (Dilute)	x	x												x	x	x	x	x	x	x	
METHYL CHLORIDE, CH ₃ Cl	o	o			-	o								o	-	x	x	x	x	x	
NAPHTHA, Petroleum	-	o	x	x	+	o				x	x			x	x	x	x	x	x	x	
NICKEL CHLORIDE, Ni Cl ₂	x	x	x		x	x								x	x	x	x	x	x	x	
" SULFATE, Ni SO ₄	x	x	x		x	x								x	x	x	x	x	x	x	
NITRATING ACID (>15% H ₂ SO ₄)	-	-				o								o	x	x	x	x	x	x	
" " (<15% H ₂ SO ₄)	-	-				o								-	x	x	x	x	x	x	
" " (<15% HNO ₃)	-	-				o								-	x	x	x	x	x	x	
" " (<1% Acid)	-	-				o								-	x	x	x	x	x	x	
NITRIC ACID, Conc., HNO ₃	o	o	o	o	o	o	o			o	o	o	o	o	o	x	x	x	x	o	
" " Dilute	-	o	o	x	o	-	-	-	-	x	-	-	-	o	-	x	x	x	x	+	
NITROBENZENE, C ₆ H ₅ NO ₂	o	o	o		o	o								o	-	x	x	x	x	+	
NITROUS ACID, HNO	-	o	o	x			x							x	x	x	x	x	x	x	
OLEIC ACID, C ₁₈ H ₃₄ CH:CH(CH ₂) ₇ CO ₂ H	o	o	o	x	+	o	x	x		x	o			x	x	x	x	x	x	x	
OXALIC ACID, CO ₂ H CO ₂ H	x	x	-	x		-	x							x	x	x	x	x	x	x	
PHENOL (Conc.) C ₆ H ₅ OH	-	o	-	x		o	o	o	-	x				-	-	x	x	x	x	+	
" (Dilute)	-	-	-											x	-	-	x	x	x	o	
PHOSPHORIC ACID (100%), H ₃ PO ₄	x	x	x	x			x	x	o					x	x	x	x	x	x	x	
" " (>45% Hot)	-	-	-		x	+								-	x	x	x	x	x	x	
PHOSPHORIC ACID (<45% Cold)	-	-	-				x							x	x	x	x	x	x	x	
" ACID (<45% ")	x	x	-											x	x	x	x	x	x	x	
" ANHYDRIDE, Dry or Moist														x						x	
" " Molten, P ₂ O ₅																				x	
PHTHALIC ANHYDRIDE, C ₆ H ₄ (CO) ₂ O	x	x					x								x					x	
PICRIC ACID, Sol'n., HO.C ₆ H ₂ (NO ₂) ₃							o							o	x	o				x	
POTASSIUM BROMIDE, KBr	x	x												x	x					x	
" CARBONATE, K ₂ CO ₃	x	x			x	x								x	-	x				x	

(continued)

TABLE 7.2: METAL, CARBON, CERAMIC, RUBBER, PLASTIC AND WOOD CONSTRUCTION MATERIALS-CORNING (continued)

MATERIALS	RUBBERS				THERMOPLASTICS														
	HARD RUBBER (Natural)	SOFT RUBBER (Natural)	NEOPRENE	BUTADIENE DERIVATIVES NITRILE Rubber (Chemigum) VITON	ASPHALTIC BITUMASTIC	CELLULOSE ACETATE	CELLULOSE ACETATE BUTYRATE	ETHYL CELLULOSE (Ethocel)	CELLULOSE NITRATE	ACRYLIC (Lucite, Plexiglas)	COUMARONE RESINS	POLYETHYLENE	POLYVINYL CHLORIDE, Rigid or Unplast.	TYGON (P. V. C. & Copolymers)	SARAN (Vinyl chloride, vinylidene chloride)	KEL-F (Polytrifluorochloroethylene)	TEFLON (Polytetrafluoroethylene)	USCOLITE CP (-styrene-acrylonitrile-butadiene)	PENTON (Chlorinated Polyether)
POTASSIUM CHLORATE, KClO ₃				x															
" CHLORIDE, KCl	x	x		x								x	x	x	x	x	x	x	x
" CYANIDE, KCN	x	x		x															
" DICHROMATE, K ₂ Cr ₂ O ₇	x	x		x															
" FERROCYANIDE, K ₄ Fe(CN) ₆	x	x		x															
" HYDROXIDE, KOH	x	x		x															
" NITRATE, KNO ₃	x	x		x															
" PERMANGANATE, KMnO ₄	x	x		x															
" SULFATE, K ₂ SO ₄	x	x		x															
" SULFIDE, K ₂ S	x	x		x															
PYROGALLOL, C ₆ H ₃ (OH) ₃																			
SILVER NITRATE, Ag NO ₃	x	x		x															
SODIUM, Molten 210° - 400°F.																			
SODIUM ACETATE, Na CH ₃ COO																			
" BICARBONATE, Na HCO ₃	x	x		x															
" BISULFATE, Na HSO ₄	x	x		x															
" BISULFITE, NaHSO ₃	x	x		x															
" BORATE Na BO ₂	x	x		x															
" CARBONATE, Na ₂ CO ₃	x	x		x															
" CHLORATE, Na ClO ₃	x	x		x															
" CHLORIDE, Na Cl	x	x		x															
" CYANIDE, NaCN	x	x		x															
" FLUORIDE, NaF	x	x		x															
" HYDROXIDE, (Conc.), NaOH	x	x		x															
" HYDROXIDE, (Dilute)	x	x		x															
" HYDROSULFITE	x	x		x															
" HYPOCHLORITE, NaOCl	x	x		x															
" HYPOSULFATE	x	x		x															
" NITRATE, Na NO ₃	x	x		x															
" PEROXIDE, Na ₂ O ₂	x	x		x															
" PHOSPHATE, (Tri) Na ₃ PO ₄	x	x		x															
" SILICATE, Na ₂ SiO ₃	x	x		x															
" SULFATE, Na ₂ SO ₄	x	x		x															
" SULFIDE, Na ₂ S	x	x		x															
" SULFITE, Na ₂ SO ₃	x	x		x															
STANNIC CHLORIDE, Sn Cl ₄																			
STANNOUS CHLORIDE, Sn Cl ₂																			
STEARIC ACID, CH ₃ (CH ₂) ₁₆ COOH																			
SULFUR, Molten, S																			
SULFUR CHLORIDE, (Wet), S ₂ Cl ₂																			
" DIOXIDE (Dry), SO ₂																			
" DIOXIDE (Wet)																			
" TRIOXIDE, SO ₃																			
SULFURIC ACID (Fuming to 98%)																			
" (Hot Conc.) H ₂ SO ₄																			
" (Cold Conc.)																			
" (75%-95%)																			
" (10%-75%)																			
" (10%)																			
SULFUROUS ACID, H ₂ SO ₃																			
SULFURYL CHLORIDE, SO ₂ Cl ₂																			
TANNIC ACID																			
TARTARIC ACID, (CHOH COOH) ₂																			
TOLUENE, CH ₃ C ₆ H ₅																			
TRICHLOROETHYLENE, Dry, Cl ₃ C CHCl																			
WATER, Fresh H ₂ O																			
WATER, Distilled Lab.																			
ZINC CHLORIDE, Zn Cl ₂																			
" SULFATE, Zn SO ₄																			

(continued)

TABLE 7.2: METAL, CARBON, CERAMIC, RUBBER, PLASTIC AND WOOD CONSTRUCTION MATERIALS—CORNING (continued)

MATERIALS X - Very Good Service + - Moderate Service - - Limited or Variable Service o - Unsatisfactory Blank - No Information	THERMOSETTING PLASTICS										WOODS											
	SHELLAC COMPOUNDS	ORGANIC POLYSULFIDES POLYSTYRENE (Styrofoam)	VINYLDENE CHLORIDES	VINYL CHLORIDE ACETATES	CAST PHENOL FORMALDEHYDE HAVEG 41 (Mod Phenolic w. asbestos) HERESITE (phenol formaldehyde)	MOLDED PHENOL FORMALDEHYDE (Durez)	PHENOL FURFURAL PLASTICS	UREA FORMALDEHYDE	CASEIN PLASTICS	EPOXY RESINS	FURANE RESINS Haveg 61, Duralon	SILICONE RESINS	PERMANITE (Furan, Glass Fiber)	NYLON (Adipic Acid—Hexameth. Diamine)	DURCON 6 (Modif. Epoxy)	CYPRESS	FIR	MAPLE	OAK	PINE	REDWOOD	
ACETIC ACID, 100%, CH ₃ COOH	x	x	o	o	-	-	-	-	-	-	-	-	-	-	x	-	x	x	x	x	x	-
ACETIC ACID, Dilute	x	x	o	-	-	-	-	-	-	-	-	-	-	-	x	-	x	x	x	x	x	-
ACETIC ANHYDRIDE, (CH ₃ CO) ₂ O	o	x	-	o	-	-	-	-	-	-	-	-	-	-	x	-	x	x	x	x	x	-
ACETONE, CH ₃ COCH ₃	o	x	-	o	-	-	-	-	-	-	-	-	-	-	x	-	x	x	x	x	x	-
ACETYL CHLORIDE, CH ₃ COCl	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	-	x	x	x	x	x	-
ALUMINUM CHLORIDE, AlCl ₃	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	-	x	x	x	x	x	-
" HYDROXIDE, Al(OH) ₃	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	-	x	x	x	x	x	-
" SULFATE, Al ₂ (SO ₄) ₃	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	-	x	x	x	x	x	-
ALUMS, CONC., Al ₂ (SO ₄) ₃ ·K ₂ SO ₄ , etc.	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	-	x	x	x	x	x	-
ALUMS, DILUTE	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	-	x	x	x	x	x	-
AMINES, various	x	o	x	x	x	x	x	x	x	x	x	x	x	x	x	-	x	x	x	x	x	-
AMMONIA (Gas), Moist, NH ₃	x	o	x	x	x	x	x	x	x	x	x	x	x	x	x	-	x	x	x	x	x	-
AMMONIUM CARBONATE, (NH ₄) ₂ CO ₃	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	-	x	x	x	x	x	-
" CHLORIDE, NH ₄ Cl	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	-	x	x	x	x	x	-
" HYDROXIDE, NH ₄ OH	-	x	x	x	x	x	x	x	x	x	x	x	x	x	x	-	x	x	x	x	x	-
" NITRATE, NH ₄ NO ₃	-	x	x	x	x	x	x	x	x	x	x	x	x	x	x	-	x	x	x	x	x	-
PERSULFATE, (NH ₄) ₂ S ₂ O ₈																						
PHOSPHATE, (NH ₄) ₂ H ₂ PO ₄																						
" (NH ₄) ₂ HPO ₄																						
" (NH ₄) ₂ PO ₄																						
" SULFATE, (NH ₄) ₂ SO ₄	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	-	x	x	x	x	x	-
AMYL ACETATE, C ₅ H ₁₁ COOCH ₃	o	o	o	x	-	-	-	-	-	-	-	-	-	-	x	-	x	x	x	x	x	-
" ALCOHOL, C ₅ H ₁₁ OH	o	x	-	-	x	-	-	-	-	-	-	-	-	-	x	-	x	x	x	x	x	-
" CHLORIDE, C ₅ H ₁₁ Cl																						
ANTIMONY TRICHLORIDE, SbCl ₃																						
ARSENIC ACID, H ₃ AsO ₄																						
BARIUM CARBONATE, BaCO ₃																						
" HYDROXIDE, Ba(OH) ₂																						
" SULFIDE, BaS																						
BENZALDEHYDE, C ₆ H ₅ CHO	o	x	o	x	-	x	x	x	x	x	x	x	x	x	x	-	x	x	x	x	x	-
BENZENE, C ₆ H ₆	o	o	o	o	-	x	x	x	x	x	x	x	x	x	x	-	x	x	x	x	x	-
BENZOIC ACID, C ₆ H ₅ COOH																						
BORAX, Na ₂ B ₄ O ₇	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	-	x	x	x	x	x	-
BORIC ACID, H ₃ BO ₃																						
BROMINE, Wet, Br ₂																						
BUTANOL, C ₄ H ₉ OH																						
BUTYL ACETATE, C ₄ H ₉ COOCH ₃		o	o	o	-	-	-	-	-	-	-	-	-	-	x	-	x	x	x	x	x	-
BUTYRIC ACID, C ₄ H ₇ COOH																						
CALCIUM BISULFATE, CaHSO ₄																						
" BISULFITE, CaHSO ₃																						
CALCIUM CARBONATE, CaCO ₃																						
" CHLORATE, CaClO ₃																						
" CHLORIDE, CaCl ₂	x	x	x	x	x	-	x	x	x	x	x	x	x	x	x	-	x	x	x	x	x	-
" HYDROXIDE, Ca(OH) ₂																						
" HYPOCHLORITE, Ca(OCl) ₂	x	x	x	o	-	o	o	o	o	x	x	x	x	x	x	-	o	o	o	o	o	-
" SULFATE, CaSO ₄																						
CARBON DIOXIDE (Dry), CO ₂	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	-	x	x	x	x	x	-
" (Wet or H ₂ CO ₃)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	-	x	x	x	x	x	-

(continued)

TABLE 7.2: METAL, CARBON, CERAMIC, RUBBER, PLASTIC AND WOOD CONSTRUCTION MATERIALS—CORNING (continued)

	THERMOSETTING PLASTICS										WOODS														
	SHELLAC COMPOUNDS	ORGANIC POLYSULFIDES	POLYSTYRENE (Styron)	VINYLDENE CHLORIDES	VINYL CHLORIDE ACETATES	CAST PHENOL FORMALDEHYDE	HAVEG 41 (Mod Phenolic w. asbestos)	HERESITE (phenol formaldehyde)	MOLDED PHENOL FORMALDEHYDE, (Durez)	PHENOL FURFURAL PLASTICS	UREA FORMALDEHYDE	CASEIN PLASTICS	EPOXY RESINS	FURANE RESINS	Haveg 61, Duralon	SILICONE RESINS	PERMANITE (Furan, Glass Fiber)	NYLON (Adipic Acid—Hexameth. Diamine)	DURCON 6 (Modif. Epoxy)	CYPRESS	FIR	MAPLE	OAK	PINE	REDWOOD
CARBON DISULFIDE, CS ₂	o	o				x	x	x	x	x															
CARBON TETRACHLORIDE (Moist) CCl ₄	o	o	x	x	x	x	x	x	x	x															
CHLORACETIC ACID, ClCH ₂ CO ₂ H	x	x																							
CHLORIC ACID, HClO ₂																									
CHLORINE (DRY), Cl ₂			x	x	x	x	x	x	x	x															
" (Wet), Cl ₂			x	x	x	x	x	x	x	x															
CHLOROBENZENE, C ₆ H ₅ Cl	o	o																							
CHLOROFORM, CHCl ₃																									
CHROMIC ACID, Cr O ₃ sol'n			o	o	o	o	o	o	o	o															
COPPER CHLORIDE, Cu Cl ₂																									
" CYANIDE, Cu(CN) ₂																									
" NITRATE, Cu(NO ₃) ₂																									
" SULFATE, Cu SO ₄	x	x																							
CRESYLIC ACID																									
DICHLORETHANE, C ₂ H ₄ Cl ₂																									
DIETHYLAMINE, (C ₂ H ₅) ₂ NH																									
DIPHENYL, C ₆ H ₅ C ₆ H ₅			o	o	o	o	o	o	o	o															
ETHERS, Various			o	o	o	o	o	o	o	o															
ETHYL ACETATE, C ₂ H ₅ COOCH ₃	o	o	x	x	x	x	x	x	x	x															
" ALCOHOL, C ₂ H ₅ OH																									
ETHYL CHLORIDE, C ₂ H ₅ Cl																									
ETHYLENE CHLOROXYDRIN, Cl (C ₂ H ₄) ₂ OH																									
" DICHLORIDE, C ₂ H ₄ Cl ₂	o	o																							
" GLYCOL, CH ₂ OHCH ₂ OH	x	x																							
" OXIDE, CH ₂ OHCH ₂ OH																									
FATTY ACIDS, Various	o	o																							
FERRIC CHLORIDE, FeCl ₃	x	x	x	x	x	x	x	x	x	x															
" NITRATE, Fe(NO ₃) ₃																									
" SULFATE, Fe ₂ (SO ₄) ₃	x	x	x	x	x	x	x	x	x	x															
FERROUS CHLORIDE, FeCl ₂	x	x	x	x	x	x	x	x	x	x															
" SULFATE, FeSO ₄	x	x	x	x	x	x	x	x	x	x															
FLUORINE, F ₂																									
FORMALDEHYDE, CH ₂ O	x	x	x	x	x	x	x	x	x	x															
FORMIC ACID, HCOOH			x	x	x	x	x	x	x	x															
FUEL OIL																									
GALLIC ACID, (OH) ₃ C ₆ H ₂ COOH																									
GASOLINE, Refined																									
GLYCEROL, CH ₂ OHCH ₂ OH																									
HYDROBROMIC ACID, HBr	x	x	x	x	x	x	x	x	x	x															
HYDROCHLORIC ACID, (Conc.), HCl	x	o	o	o	o	o	o	o	o	o															
" (Dilute)	x	x	x	x	x	x	x	x	x	x															
" (Dry Gas)	x	x	x	x	x	x	x	x	x	x															
HYDROCYANIC ACID, (Conc.), HCN																									
" (Dil. & Gas)																									
HYDROFLUORIC ACID, (Conc.), HF	x																								
" (Dilute)	x																								
HYDROFLUOSILICIC ACID, H ₂ SiF ₆																									
HYDROCARBONS (Aliphatic)																									

(continued)

TABLE 7.2: METAL, CARBON, CERAMIC, RUBBER, PLASTIC AND WOOD CONSTRUCTION MATERIALS—CORNING (continued)

	THERMOSETTING PLASTICS										WOODS														
	SHELLAC COMPOUNDS	ORGANIC POLYSULFIDES	POLYSTYRENE (Styron)	VINYLDENE CHLORIDES	VINYL CHLORIDE ACETATES	CAST PHENOL FORMALDEHYDE	HAVEG 41 (Mod Phenolic w. asbestos)	HERESITE (phenol formaldehyde)	MOLDED PHENOL FORMALDEHYDE. (Durez)	PHENOL FURFURAL PLASTICS	UREA FORMALDEHYDE	CASEIN PLASTICS	EPOXY RESINS	FURANE RESINS Haveg 61, Duralon	SILICONE RESINS	PERMANITE (Furan, Glass Fiber)	NYLON (Adipic Acid—Hexameth. Diamine)	DURCON 6 (Modif. Epoxy)	CYPRESS	FIR	MAPLE	OAK	PINE	REDWOOD	
HYDROCARBONS (Aromatic)	o	o	o	-	-	x	x	-	-	-	x		x												
HYDROGEN GAS, H ₂						x	x	x	x																
HYDROGEN PEROXIDE (Conc.), H ₂ O ₂		o	o			x	x	x	x																
" " (Dilute)		o	o			x	x	x	x																
HYDROGEN SULFIDE (Dry) H ₂ S	-	x				x		x					x	x	x										
" " (Wet)													x	x	x										
IODINE, I, Wet													o	o	o										
IODIFORM, CHI ₃																									
KEROSENE																									
KETONES, Various		o	-			x																			
LACTIC ACID, CH ₃ CHOHCOOH		x				x	x	x																	x
LEAD ACETATE, Pb(CH ₃ COO) ₂						x																			
MAGNESIUM CHLORIDE, Mg Cl ₂	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
" HYDROXIDE, Mg (OH) ₂						x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
" SULFATE, Mg SO ₄	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
MALEIC ACID, CO ₂ H C ₂ H ₂ CO ₂ H																									
MALIC ACID, CO ₂ H CH ₂ CHOHCO ₂ H		x																							
MERCURIC CHLORIDE, Hg ₂ Cl ₂																									
MERCURY, Hg																									
METHANOL, Conc., CH ₃ OH		x																							
" (Dilute)		x																							
METHYL CHLORIDE, CH ₃ Cl																									
NAPHTHA, Petroleum		-	-	-	-	-	-	-	-	-	x														
NICKEL CHLORIDE, Ni Cl ₂																									
" SULFATE, Ni SO ₄		x																							
NITRATING ACID (>15% H ₂ SO ₄)																									
" " (<15% H ₂ SO ₄)																									
" " (<15% HNO ₃)																									
" " (<1% Acid)																									
NITRIC ACID, Conc., HNO ₃		o	o			o	o	o	x	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
" " Dilute		x	-			-	-	-	x	-	-	o	o	o	o	o	o	o	o	o	o	o	o	o	o
NITROBENZENE, C ₆ H ₅ NO ₂																									
NITROUS ACID, HNO	x																								
OLEIC ACID, C ₁₈ H ₃₄ CH ₂ (CH ₂) ₇ CO ₂ H		x	x			x	-	x	x	x	-	x													
OXALIC ACID, CO ₂ H CO ₂ H		x				x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
PHENOL (Conc.) C ₆ H ₅ OH		o				-	-	-	-	-	-														
" (Dilute)		o																							
PHOSPHORIC ACID (100%), H ₃ PO ₄			x			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
" " (>45% Hot)																									
PHOSPHORIC ACID (>45% Cold)		x				x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
" " ACID (<45%) "																									
" " ANHYDRIDE, Dry or Moist																									
" " Molten, P ₂ O ₅																									
PHTHALIC ANHYDRIDE, C ₈ H ₄ (CO) ₂ O																									
PICRIC ACID, Sol'n., HO C ₆ H ₂ (NO ₂) ₃																									
POTASSIUM BROMIDE, KBr																									
" CARBONATE, K ₂ CO ₃																									

(continued)

