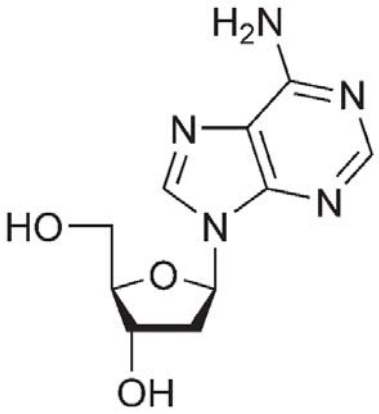
Corrosion Resistance Guide



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IWAKI AIR AODD PUMPS

CHEMICAL RESISTANCE GUIDE

KEY TO THE RATINGS CONTAINED WITHIN THIS GUIDE:

A	Excellent
A/X% or A/X°	Excellent but only up to that concentration (%) or temperature (°)
B	Good
B/X% or B/X°	Good but only up to that concentration (%) or temperature (°)
C	Fair to Poor
C/X% or C/X°	Fair to Poor but only up to that concentration (%) or temperature (°)
X	Not Recommended
—	No Data Available or No Testing Has Been Completed

This document is intended as a general guide to help in the selection of pump wetted materials. The list includes many of the most common liquids used in industrial and processing applications.

Warnings:

- The data contained has been compiled from many sources and is believed to be reliable. NO GUARANTEE IS IMPLIED OR EXPRESSLY STATED HEREIN THROUGH THE USE OF THIS GUIDE.
- Regarding the actual corrosion resistance properties of each material, testing of the materials of construction under actual or similar conditions is recommended.
- Corrosion rates may vary with concentration, temperature and the presence of abrasives. Impurities or other trace elements common in industrial liquids may inhibit or accelerate the reaction of the material being pumped and the effect on pump materials.
- Chemicals or liquids may independently be compatible with a type of material; however, the combination of several liquids may completely change the chemical compatibility.
- Even if a material has been deemed to be chemical compatible, always consider other such factors as chemical compatibility of the pumps non wetted parts, solids size, solids content, abrasion resistance, temperature of the liquid, temperature of the surrounding atmosphere, and airline or liquid line pressures.
- When transferring flammable liquids or operating in explosive environments, follow all local fire and safety laws or regulations. Take care that the pump and all peripheral equipment is fully earthed and note that some pump materials such as non-conductive Polypropylene is unsuited to such applications.
- Halogenated hydrocarbon solvents such as those listed below should not be used in aluminum equipment as a violent explosion could result:
    - Carbon Tetrachloride, Methylene Chloride, Dichloroethylene, Methyl Chloride, Chloroform, Trichlorethylene
- Plastic pumps in general are recommended for strong acids and caustics and not recommended for high temperatures or slurries. Metal pumps in general are good for abrasion resistance, solvents, hydrocarbons, and high temperature applications.

IWAKI AIR CHEMICAL COMPATIBILITY CHART

LIQUID NAME AND MATERIALS OF CONSTRUCTION	ELASTOMERIC MATERIALS							METALLIC MATERIALS				NON-METALLIC MATERIALS				
	Santoprene® (TPO)	Hytrel™ (TPE/TPEE)	Buna N (NBR)	Neoprene™ (CR)	Nordel® (EPDM)	Teflon® (PTFE)	Viton® (FPM/FKM)	Aluminum (AL-ADC-12)	Cast Iron (FE-S45C)	Stainless Steel (SUS-SCS14/316)	Hastelloy® (C-22)	Polypropylene (GFRPP)	Pure Polypropylene (PP)	Conductive Polypropylene (CP)	Kynar® (Carbon Reinforced PVDF-CR/PVDF)	PTFE Teflon® (PTFE)
Acetaldehyde	—	B	X	X	A	A	X	A	B	A	A	C	C	C	A/65°	A
Acetamide	—	—	B	B	A	A	B	A	X	X	A	A	A	A	A/60°	A
Acetate Solvents	—	—	X	X	—	A	X	A	—	A	—	X	B	B	A	A
Acetic Acid-20%	A	B	C	B	A	A	C	B	—	A	A	C	B	B	A	A
Acetic Acid-30%	A	B	C	B	A	A	X	B	X	A	A	C	B	B	B	A
Acetic Acid-50%	A	—	C	C	A	A	C	B	X	A	A	C	B	B	B	A
Acetic Andydride	—	C	C	B	B	A	X	B	B/100°/90%	A	A	X	C	C	B/20°	A
Acetone	A	C	X	X	A	A	X	B	A	A	A	X	X	X	X	A
Acetone Cyanohydrin	—	—	X	B	X	A	X	A	B	B	B	—	—	—	—	A
Acetonitrile	—	—	C	A	A	A	X	A	A	A	A	B/38°	—	—	A	A
Acetophenone	—	—	X	X	A	A	X	B	A	A	B	A/20°	A	A	A	A
Acetyl Acetone	—	—	X	X	A	A	X	B	X	B	B	—	—	—	—	A
Acetyl Chloride	—	X	X	X	C	A	B	X	A	B	A	X	—	—	A	A
Acetyl Salicylic Acid	—	—	—	X	B	A	—	A	X	B	B	—	—	—	—	A
Acetylene	—	A	A	C	A	A	A	A	A	A	A	X	B	B	A	A
Acetylene Tetrabromide	—	—	X	X	—	A	A	X	X	A	—	—	—	—	—	A
Acrolein	—	—	B	—	—	A	A	A	B	B	B	—	—	—	—	A
Acrylonitrile	A	—	X	X	X	A	X	A	A	A	A	B	B	B	A	A
Adipic Acid Aqueous	—	—	B	X	—	A	A	B	B	B	A	A	B	B	A	A
Aliphatic	—	A/70°	A	B	X	A	A	A	A	A	A	—	—	—	—	A
Alkazene (Chlorethyl or Polyisoprpopyl benzenes)	—	—	X	X	—	A	A	—	—	—	—	—	—	—	—	A
Allyl Alcohol (2-Propen-1-ol)	—	—	A	A	A	A	B	B	A	A	A	—	—	—	—	A
Allyl Bromide (3-Bromopropene)	—	—	X	X	X	A	B	X	A	—	—	—	—	—	—	A
Allyl Chloride (3-Chloropropene)	—	—	X	X	X	A	B	X	C	B	—	A/70°	A	A	A	A
Almond Oil (artificial)	—	—	X	X	B	A	X	—	—	—	—	—	A	A	—	A
Alum (Aluminum Potassium Sulfate Dodecatydrate)	—	—	A	A	A	A	X	—	—	B	B	A	A	A	A	A
Aluminum Acetate	—	—	C	C	A	A	X	B	C	A	A	A/38°	—	—	A	A
Aluminum Bromide	—	—	A	A	—	A	—	—	—	—	—	—	—	—	A	A
Aluminum Chloride	A	B	A	A	A	A	A	X	C	B	A/25%	A	A	A	A	A
Aluminum Fluoride	—	—	A	A	B	A	A	A/50%	C	C	A/20%	A	A	A	A	A
Aluminum Hydroxide	—	—	B	A	A	A	C	B/10%	B/30%	B	B/10%	A	A	A	A	A
Aluminum Nitrate	—	—	A	A	A	A	A	X	—	A/10%	B/10%	A	A	A	A	A
Aluminum Phosphate	—	—	A	A	A	A	A	—	—	—	—	—	—	—	—	A
Aluminum Potassium Sulfate (Potash Alum)	—	—	A	A	A	A	A	A/10%	X	A	B	A	A	A	A	A
Aluminum sodium Sulfate (Soda Alum) 12-water	—	—	A	A	A	A	A	—	—	—	—	—	—	—	—	A
Aluminum Sulfate (Cake Alum)	A	B	A	A	A	A	A	B/30%	X	A/50%/75°	A/90%/100°	A	A	A	A	A
Aluminum Ammonium Sulfate (Alum)	—	—	B	B	—	A	A	—	—	—	—	A	A	A	A	A
Amines	—	A/70%	X	B	—	—	X	A	—	A	—	B	B	B	—	A
Ammonia Anhydrous, Liquid	A	X	B	B	A	A	X	A	A	A	A	A	A	A	A	A
Ammonia Gas - Cold	A	—	A	A	—	A	A	—	—	—	—	—	B	B	—	A
Ammonia Gas - Hot	—	—	C	B	—	A	X	—	—	—	—	—	—	—	—	A
Ammonia Liquors	A	—	—	A	—	A	X	A	A	A	—	—	A	A	—	A
Ammonium Acetate	A	—	—	A	—	A	A	A	B/50%	A/50%	—	—	—	—	—	A
Ammonium Bicarbonate	—	—	A	A	A	A	A	B	B	B/90%	—	—	—	—	—	A
Ammonium Bifluoride - 10%	—	—	B	X	—	A	—	C	X	B	B	A	A	A	A	A
Ammonium Carbonate	A	—	X	B	A	A	A	B	B	B/70%/100°	B/70%/100°	A	A	A	A	A
Ammonium Casenite	—	—	—	A	—	—	—	—	—	A	—	—	—	—	—	A
Ammonium Chloride	A	A	A	A	A	A	A	X	X	B	A	A	A	A	A	A
Ammonium Cupric Sulfate	—	—	A	—	—	A	A	—	—	—	—	—	—	—	—	A
Ammonium Dichromate	—	—	A	A	A	A	—	A	A	A/30%	—	—	—	—	—	A
Ammonium Fluoride	—	—	B	B	—	A	A/20%	B/10%	B/20%	B	A/40%	B	A	A	A	A
Ammonium Hydroxide	A	—	B	B	A	A	B	A/30%	B/30%	A/50%	A/80%	A	A	A	A	A
Ammonium Metaphosphate	—	—	A	A	A	A	A	B/90%	B	B	A	A	A	A	A	A
Ammonium Nitrate	A	—	A	A	A	A	A	B	A	A	A	A	A	A	A	A
Ammonium Oxalate	—	—	A	A	—	—	—	—	—	A	A	—	—	—	—	A
Ammonium Persulfate	—	—	C	A	B	A	A	C	X	A	—	A	A	A	A	A
Ammonium Phosphate, Di-Basic	—	—	A	A	—	A	A	B	—	A	A	A	A	A	A	A
Ammonium Phosphate, Monobasic	A	B	A	A	A	A	A	X	X	B	A/05%	A	A	A	A	A
Ammonium Phosphate, Tri-Basic	—	—	A	A	—	A	A	X	—	B	B	A	A	A	A	A
Ammonium Sulfate	A	C	A	A	A	A	A	X	B	A/80%/100°	B/40%	A	A	A	A	A
Ammonium Sulfide	—	—	A	A	—	A	A	B	—	B	A/10%	—	—	—	—	A
Ammonium Sulfite	—	—	A	—	—	A	A	C	X	B	A/100%	A	A	A	—	A
Ammonium Thiocyanate	—	—	A	A	A	A	A	C	C	A/50%	A/50%	—	—	—	—	A
Ammonium Thiosulfate	—	—	A	A	A	A	A	A/40%	X	A/10%	—	—	—	—	—	A
Amyl Acetate	—	C	X	X	A	A	X	A	B	A	B	C	C	C	A/120°	A
Amyl Alcohol	B	—	B	A	A	A	A	A	A	A	B	A	A	A	A	A
Amyl Borate	—	—	A	B	—	A	A	—	—	—	—	—	—	—	—	A
Amyl Chloride	—	—	X	X	X	A	A	X	A	A	B	X	X	X	A	A

PERCENTAGE (%) IS THE CONCENTRATION OF THE LIQUID AND DEGREES (°) ARE IN CELSIUS

IWAKI AIR CHEMICAL COMPATIBILITY CHART

LIQUID NAME AND MATERIALS OF CONSTRUCTION	ELASTOMERIC MATERIALS							METALLIC MATERIALS				NON-METALLIC MATERIALS				
	Santoprene® (TPO)	Hytrel™ (TPE/TPEE)	Buna N (NBR)	Neoprene™ (CR)	Nordel® (EPDM)	Teflon® (PTFE)	Viton® (FPM/FKM)	Aluminum (AL-ADC-12)	Cast Iron (FE-S45C)	Stainless Steel (SUS-SCS14/316)	Hastelloy® (C-22)	Polypropylene (GFRPP)	Pure Polypropylene (PP)	Conductive Polypropylene (CP)	Kynar® (Carbon Reinforced PVDF-CR/PVDF)	PTFE Teflon® (PTFE)
Amyl Chloronaphthalene	—	—	B	X	—	A	A	—	—	—	—	—	—	—	—	A
Amyl Naphthalene	—	—	X	X	X	A	A	—	—	—	—	—	—	—	—	A
Amyl Phenol	—	—	X	—	—	A	A	A	A	A	A	—	—	—	—	A
Amyl (1-Pentanol)	B	—	B	B	—	A	B	B	—	A	A	B	B	B	A	A
Anilene	A	X	X	X	C	A	B	B	A	A	B	A	A	A	A	A
Anilene (High)	—	A/100°	A	B	X	A	A	A	A	A	A	—	—	—	—	A
Anilene (Low)	—	A/100°	A	C	X	A	A	A	A	A	A	—	—	—	—	A
Anilene (Medium)	—	A	A	B	X	A	A	A	A	A	A	—	—	—	—	A
Anilene (Very High)	—	—	B	X	X	A	A	A	A	A	A	—	—	—	—	A
Anilene Dyes	—	—	C	C	C	A	B	B	C	B	—	—	—	—	A	A
Anilene Hydrochloride	—	—	C	X	—	A	B	X	X	X	—	X	—	—	—	A
Animal Fats & Oil	—	B	A	C	B	A	A	A	X	A	A	—	—	—	A	A
Animal Gelatin	—	—	A	A	A	A	A	—	—	A	—	—	—	—	—	A
Anisole	—	—	—	X	—	A	X	B	B	B	B	—	—	—	—	A
Ansul Ether	—	—	C	X	—	A	X	—	—	—	—	—	—	—	—	A
Anthraquinone	—	—	—	—	—	A	—	B	B	B	A	—	—	—	—	A
Anti-Freeze - Alcohol Base	—	—	A	A	A	A	A	A	A	A	A	—	A	A	—	A
Anti-Freeze - Glycol Base	—	—	A	B	A	A	A	A	A	A	A	—	A	A	—	A
Antimony Pentachloride	—	—	X	—	—	A	—	A	A	A	A	—	—	—	—	A
Antimony Trichloride	—	—	B	—	A	A	A	B	A	A	B	A	A	A	A	A
Aqua Regia	—	—	X	X	X	A	B	X	X	X	C	X	B	B	A	A
Aroclor	—	—	C	X	X	A	A	A	B	A	A/90%	X	—	—	—	A
Aromatic Hydrocarbons	—	C	X	X	—	A	A	A	A	A	—	—	X	X	—	A
Aromatic Solvents (Benzene, etc...)	—	—	C	X	X	A	B	A	B	A	B	—	—	—	—	A
Arsenic Acid	A	—	B	A	A	A	A	A	X	B	B	A	A	A	A	A
Arsenic Trichloride	—	—	C	A	X	A	X	B	B	X	B	—	A	A	—	A
Ascorbic Acid	—	—	—	—	—	A	A	A	X	A	—	—	—	—	—	A
Askarel	—	—	B	X	X	A	C	—	—	A	—	—	—	—	—	A
Asphalt	—	—	B	C	X	A	A	A	B	A	—	A	A	A	A	A
Asphalt Topping	—	—	C	A	—	A	C	—	A	A	—	—	—	—	—	A
Aviation Gasoline	—	—	A	C	X	A	A	A	A	A	A	—	—	—	—	A
Barbeque Sauce	—	—	A	A	—	A	—	—	X	A	—	—	—	—	—	A
Barium Carbonate	—	—	A	A	A	A	A	X	B	B	B	A	A	A	A	A
Barium Chloride Dihydrate	—	—	A	A	A	A	A	B/50%	B	B/100°	B	A	A	A	A	A
Barium Cyanide	—	X	C	A	—	—	A	—	—	A	—	X	—	—	—	A
Barium Hydroxide (Barium Hydrate)	A	B	A	A	A	A	A	X	B	A/50%/50°	B	A	A	A	A	A
Barium Nitrate	—	—	A	A	—	A	—	B	A	A	A	A	—	—	A	A
Barium Sulfate	—	X	A	A	A	A	A	B	B	B	—	A	A	A	A	A
Barium Sulfide	—	—	A	A	A	A	A	X	—	B	A	A	A	A	A	A
Beef Extract	—	—	A	A	—	A	A	—	X	A	—	—	—	—	—	A
Beer	—	B	C	A	A	A	A	A	X	A	A	A/25°	A/25°	A/25°	A/80°	A
Beet Sugar Liquors	—	—	A	A	A	A	A	A	B	A	—	A	A	A	A	A
Benzaldehyde	—	B	X	X	B	A	X	A	A	A	A	X	X	X	A	A
Benzene	—	C/20°	X	X	X	A	B	B	B	A/75°	B	X	B	B	B	A
Benzene Sulfonic Acid	—	—	C	A	C	A	A	C	A	A	A/90%	X	—	—	B/38°	A
Benzoic Acid (Benzene Carboxylic Acid)	A	—	X	B	B	A	A	B	X	B	A/50%	X	B	B	A	A
Benzol	—	C/20°	X	X	X	A	B	B	B	A/75°	B	X	X	X	B	A
Benzoyl Chloride	—	—	X	X	X	A	B	X	A	B	B	—	—	—	A	A
Benzyl	—	—	X	B	—	A	A	B	—	A	A	A	A	A	A	A
Benzyl Acetate	—	—	X	—	—	A	X	A	A	A	B	—	—	—	—	A
Benzyl Alcohol	—	—	X	C	C	A	A	A	A	A	B	A	A	A	A	A
Benzyl Benzoate	—	—	X	X	B	A	A	A	B	B	B	—	—	—	—	A
Benzyl Chloride	—	—	X	X	X	A	A	X	A	B	A	X	X	X	A	A
Benzyl Dichloride	—	—	X	—	—	A	—	X	B	A	B	—	—	—	—	A
Biphenyl	—	—	X	X	X	A	A	A	A	—	—	—	—	—	—	A
Bismuth Subcarbonate	—	—	A	A	A	A	A	—	—	B/10%	—	—	—	—	—	A
Black Sulfate Liquor	—	B	B	A	A	A	A	C	B	A	B	—	—	—	—	A
Blast Furnace Gas	—	B	C	A	—	A	A	—	—	—	—	—	—	—	—	A
Bleach Solutions	—	X	X	X	A	A	B	X	—	B	A/52°	X	B	B	—	A
Borax	A	A	B	A	A	A	A	B	B	A	A	A	A	A	A	A
Bordeaux Mixture	—	B	A	A	A	A	B	—	—	A	A	—	—	—	—	A
Boric Acid	A	A	A	A	A	A	A	A	X	A/30%	A/80%/75°	A	A	A	A	A
Brake Fluid (non-petroleum base)	—	—	X	A	A	A	—	A	A	A	A	X	—	—	—	A
Brewery Slop	—	—	A	A	—	A	A	—	A	A	—	—	—	—	—	A
Bromine Trifluoride	—	—	X	X	X	—	X	A	—	B	—	X	X	X	—	A
Bromine Water	—	—	X	B	X	A	B	X	X	X	A	X	X	X	A	A
Bromine-Anhydrous	—	X	X	X	C	A	A	B	C	X	A	X	X	X	A/65°	A
Bromobenzene	—	—	X	X	X	A	B	X	B	A	B	X	X	X	—	A

PERCENTAGE (%) IS THE CONCENTRATION OF THE LIQUID AND DEGREES (^{O}) ARE IN CELSIUS

IWAKI AIR CHEMICAL COMPATIBILITY CHART

LIQUID NAME AND MATERIALS OF CONSTRUCTION	ELASTOMERIC MATERIALS							METALLIC MATERIALS				NON-METALLIC MATERIALS				
	Santoprene® (TPO)	Hytrel™ (TPE/TPEE)	Buna N (NBR)	Neoprene™ (CR)	Nordel® (EPDM)	Teflon® (PTFE)	Viton® (FPM/FKM)	Aluminum (AL-ADC-12)	Cast Iron (FE-S45C)	Stainless Steel (SUS-SCS14/316)	Hastelloy® (C-22)	Polypropylene (GFRPP)	Pure Polypropylene (PP)	Conductive Polypropylene (CP)	Kynar® (Carbon Reinforced PVDF-CR/PVDF)	PTFE Teflon® (PTFE)
Bromochloromethane	—	—	X	X	B	A	C	X	B	B	B	—	—	—	—	A
Bromopropene (3-Bromopropene)	—	—	X	X	X	A	B	X	A	—	—	—	—	—	—	A
Bromotoluene	—	—	X	—	—	A	B	X	A	A	A	—	A	A	—	A
Bronzing Liquid	—	—	X	X	B	A	X	—	—	A	A	—	—	—	—	A
Bunker Oil (fuel) #5, #6, & C	—	—	A	B	X	A	A	A	A	A	A	—	—	—	—	A
Butadiene	X	—	X	C	C	A	C	A	A	A	—	X	—	—	A	A
Butane (LPG)	—	A	A	B	X	A	A	A	A	A	A	X	B	B	A	A
Buttermilk	—	—	A	A	—	—	A	A	—	A	—	A	—	—	A	A
Butter	—	B	A	C	A	A	A	A	X	A	—	—	—	—	—	A
Butyl	—	—	A	A	—	A	A	B	—	A	A	B	—	—	A	A
Butyl Acetate	A	C	X	X	B	A	X	A	A	A	A	X	X	X	A/38°	A
Butyl Acetate (n-Butyl Acetate)	—	—	X	X	X	A	X	A	A	A	A	—	—	—	—	A
Butyl Acetyl Ricinoleate	—	—	C	X	C	A	B	—	—	—	A	—	—	—	—	A
Butyl Acrylate	—	—	X	X	X	A	X	—	—	—	—	—	X	X	C	A
Butyl Alcohol	B	B	A	A	B	A	A	A	B	A	A	B	B	B	A	A
Butyl Amine	—	—	B	X	X	A	X	A	A	A	—	X	—	—	B/20°	A
Butyl Benzoate	—	—	—	X	B	A	A	B	B	B	B	—	—	—	—	A
Butyl Bromide	—	—	X	—	—	A	B	—	—	—	—	—	—	—	A	A
Butyl Butyrate	—	—	X	—	—	A	X	A	A	A	A	—	—	—	—	A
Butyl Carbitol	—	—	A	B	A	A	A	—	—	—	—	—	—	—	—	A
Butyl Cellosolve	—	—	B	C	—	A	C	—	—	—	—	—	—	—	B	A
Butyl Chloride	—	—	X	—	—	A	A	X	B	B	B	X	—	—	A	A
Butyl Ether	—	—	A	B	—	A	C	A	B	A	A	X	—	—	A/38°	A
Butyl Oleate	—	—	—	X	C	A	A	—	—	—	—	—	—	—	—	A
Butyl Stearate	—	—	A	X	C	A	B	B	B	B	B	—	—	—	A	A
Butylene	X	—	B	X	X	A	B	A	—	A	—	X	X	X	A	A
Butyraldehyde	—	—	X	X	C	A	X	A	A	A	A	—	X	X	—	A
Butyric Acid	A	B	C	X	C	A	C	A	X	B	A	A	A	A	A	A
Butyric Anhydride	—	—	C	—	—	A	—	A	A	A	A	—	—	—	—	A
Butyronitrile	—	—	X	X	A	A	—	—	—	—	—	—	—	—	—	A
Calcium Acetate Hydrate	—	—	B	C	A	A	X	C	C	B	B	—	—	—	—	A
Calcium Bisulfite	—	X	A	A	X	A	A	X	X	A/90%	A	A	A	A	A	A
Calcium Carbonate (Chalk)	—	—	A	A	A	A	A	C	B	B	B	A	A	A	A	A
Calcium Chlorate	—	—	A	A	A	A	A	B/30%	B	B/30%	B/70%	A	—	—	A	A
Calcium Chloride	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Calcium Hydrosulfide	—	—	A	—	—	A	A	—	—	—	—	—	—	—	—	A
Calcium Hydroxide	—	B	A	A	A	A	A	X	B	B/50%	A/50%	A	A	A	A	A
Calcium Hypochlorite 20%	A	A/05%	C	X	B	A	B	X	X	B	B/52%	A	A	A	A	A
Calcium Nitrate	A/50%	—	A	A	A	A	A	B 100°/40%	B/100°/30%	B/100°/40%	B/10%	A	A	A	A	A
Calcium Oxide	—	B	A	A	A	A	—	A	A	A	A	—	—	—	—	A
Calcium Silicate	—	—	A	—	—	A	A	A	B	A	A	—	—	—	—	A
Calcium Sulfate	—	—	A	A	A	A	A	C	B/10%	A/10%	A	A	A	A	A	A
Calcium Sulfide	—	—	A	B	A	A	A	A/20%	B	B	A	A/50°	A	A	A	A
Calcium Sulfite	—	—	A	—	—	A	A	B/10%	B	A/10%	—	—	A	A	—	A
Calgon	—	—	A	A	—	—	A	—	X	A	—	A	A	A	—	A
Cane Juice	—	—	A	A	—	—	—	B	A	A	—	X	B	B	—	A
Cane Sugar Liquors	—	B	A	A	A	A	A	A	A	A	—	A	A	A	A	A
Capryl Alcohol	—	—	A	B	C	A	B	A	A	A	A	—	—	—	—	A
Caprylic Acid	—	—	C	—	—	A	—	A	—	A	A	—	—	—	A	A
Carbamate	—	—	C	C	C	A	A	—	—	—	—	—	—	—	—	A
Carbitol	—	—	B	C	C	A	A	B	A	B	A	C	C	C	A/65°	A
Carbolic Acid	—	—	X	C	C	A	A	B	A	B	A	C	C	C	A/65°	A
Carbon Tetrachloride	X	X	C	X	X	A	A	X	C	B	A	X	B	B	A	A
Carbon Dioxide	—	A	A	A	B	A	A	A	A	A	A	A	A	A	A	A
Carbon Disulfide	—	C	X	X	X	A	A	A	B	A/90%	—	X	B	B	A	A
Carbon Monoxide	A	A	C	A	C	A	C	A	A	A	A	A	A	A	A	A
Carbonated Beverages	—	—	A	A	—	A	—	C	—	A	A	A	A	A	A	A
Carbonic Acid (liquid)	—	C	B	A	—	A	A	A	X	B	A	A	A	A	A	A
Casein	—	—	A	A	A	A	A	B	—	B	B	—	—	—	—	A
Castor Oil	—	B	A	A	B	A	A	A	B	A	A	—	—	—	—	A
Cellosolve	—	X	C	C	C	A	B	A	—	A	A	A/38°	A	A	A	A
Cellulose Acetate	—	—	B	B	—	A	C	B	B	A	A	—	—	—	—	A
Cellulube Hydraulic Fluids	—	C	X	X	A	A	B	A	A	A	A	—	—	—	—	A
Chlorinated Lime - 35% bleach	—	A/06%	C	X	A	A	A	—	X	A	—	—	—	—	—	A
Chlorinated Water	C	X	C	C	—	A	A	C	—	B	A	B	B	B	A	A
Chlorine - Dry	—	X	C	C	—	A	A	X	X	—	—	—	X	X	A	A
Chlorine Dioxide	—	—	X	X	C	A	B	B	—	X	B	X	—	—	A	A
Chlorine Trifluoride	—	—	X	X	X	A	B	A	—	A	—	X	—	—	—	A

PERCENTAGE (%) IS THE CONCENTRATION OF THE LIQUID AND DEGREES (°) ARE IN CELSIUS

IWAKI AIR CHEMICAL COMPATIBILITY CHART

LIQUID NAME AND MATERIALS OF CONSTRUCTION	ELASTOMERIC MATERIALS							METALLIC MATERIALS				NON-METALLIC MATERIALS				
	Santoprene® (TPO)	Hytrel™ (TPE/TPEE)	Buna N (NBR)	Neoprene™ (CR)	Nordel® (EPDM)	Teflon® (PTFE)	Viton® (FPM/FKM)	Aluminum (AL-ADC-12)	Cast Iron (FE-S45C)	Stainless Steel (SUS-SCS14/316)	Hastelloy® (C-22)	Polypropylene (GFRPP)	Pure Polypropylene (PP)	Conductive Polypropylene (CP)	Kynar® (Carbon Reinforced PVDF-CR/PVDF)	PTFE Teflon® (PTFE)
Chlorine-Anhydrous Liquid	—	—	X	X	—	A	A	X	X	X	A	X	X	X	A	A
Chlorine-Wet	—	X	C	X	X	A	A	B	C	A	A	X	X	X	A	A
Chloroacetic Acid	—	X	X	C	B	A	C	X	X	X	A	B	B	B	A	A
Chloroacetone	—	—	X	C	A	A	C	X	B	B	B	X	X	X	—	A
Chlorobenzene	—	X	X	X	X	A	A	X	B	B	B	X	X	X	A/65°	A
Chlorobromomethane	—	—	X	X	—	A	A	X	B	B	—	X	X	X	—	A
Chlorobutadiene	—	—	X	X	X	A	A	X	B	B	B	X	X	X	—	A
Chloroform	X	X	X	X	X	A	A	X	A	A	A	X	X	X	A	A
Chloronaphthalene	—	—	X	X	X	A	C	X	B	B	A	X	—	—	—	A
Chlorophenol (o-Chlorophenol)	—	—	X	X	X	A	B	B	B	B	B	—	—	—	A	A
Chloropropene (3-Chloropropene)	—	—	X	X	X	A	B	X	C	B	—	A/70°	A/70°	A/70°	A	A
Chlorosulfonic Acid	—	X	X	X	X	A	X	B	B	B	A	X	X	X	X	A
Chlorothene (Chlorinated Solvents)	—	—	X	X	—	A	C	X	X	A	A	—	—	—	—	A
Chlorotrifluoroethylene	—	—	X	—	—	A	—	B	B	B	B	—	—	—	—	A
Clorox	—	X	C	B	—	A	A	—	X	A	B	B	B	B	—	A
Chocolate Syrup	—	—	A	A	—	A	—	—	X	A	—	A	A	A	—	A
Chromic Acid - To 25%	—	X	X	X	A	A	A	B/10%	B	X	B	A	A	A	A/50°	A
Chromic Acid - Over 25%	—	X	X	X	C	A	A	X	B	X	B	A	A	A	A/50°	A
Cider	—	B	A	A	—	A	A	B	X	A	A	—	—	—	—	A
Cinnamon Oil	—	—	—	C	—	A	—	—	X	A	—	—	—	—	—	A
Citric Acid	—	A	B	A	A	A	A	B	X	A/30%	A	B	A	A	A/125°	A
Citric Oils	—	—	C	X	B	A	A	—	X	A	—	A	A	A	—	A
Citrus Pectin Liquor	—	—	A	A	—	A	A	—	—	A	—	—	—	—	—	A
Clove Oil	—	—	—	C	—	A	—	—	X	A	—	—	B	B	—	A
Cobalt Chloride	—	—	A	A	C	A	A	X	—	—	—	A	A	A	—	A
Coconut Oil	—	—	B	B	A	A	A	B	A	A	—	—	A	A	—	A
Cod Liver Oil	—	—	B	B	A	A	A	A	X	A	—	—	A	A	—	A
Coffee	—	—	A	A	—	A	—	A	—	A	A	A	A	A	—	A
Coke Oven Gas	—	—	C	C	—	A	A	—	—	—	—	—	—	—	A	A
Com Oil	—	A	A	C	C	A	A	B	C	B	—	A	A	A	A	A
Copper Acetate	—	—	B	C	A	A	—	X	A/90%	B/10%	B/10%	—	A	A	A	A
Copper Chloride	—	A	A	A	A	A	A	X	X	X	B/40%	A	A	A	A	A
Copper Cyanide	—	—	A	A	A	A	A	X	A	A/10%	A/170%	A	A	A	A	A
Copper Fluoroborate	—	—	B	A	—	—	A	X	X	X	B	—	A	A	—	A
Copper Nitrate Hexahydrate	—	—	A	A	A	A	A	X	X	A	B	A	A	A	A	A
Copper Sulfate	A	A	A	A	A	A	A	X	X	A/10%	A	A	A	A	A	A
Copper Sulfide	A	—	A	—	—	A	A	—	—	—	—	—	—	—	—	A
Cotton Seed Oil	—	A	A	C	A	A	A	A	C	A	—	A	A	A	A	A
Cream	—	—	A	C	—	A	A	—	X	A	—	A	A	A	—	A
Creosote, Coal - Tar	—	X	A	C	X	A	A	B	B	B	B	X	—	—	—	A
Creosote, Wood - Tar	—	X	A	B	X	A	A	—	—	B	—	X	—	—	—	A
Cresylic Acid	—	—	C	X	X	A	A	B	C	A	B	X	C	C	A/65°	A
Crotonaldehyde	—	—	X	A	—	A	A	A	A	A	A	—	—	—	—	A
Cumene	—	—	X	X	X	A	A	B	B	B	B	—	—	—	—	A
Cutting Oil (sulfur base)	—	—	A	C	—	A	—	A	A	A	A	—	—	—	—	A
Cutting Oil (water soluble)	—	—	C	X	—	A	A	A	A	A	A	—	—	—	—	A
Cyclohexane	X	A	B	X	X	A	A	B	B	B	B	X	X	X	A	A
Cyclohexanol	C	—	B	A	X	A	A	C	B	A	A	B	B	B	A/65°	A
Cyclohexanone	B	—	X	X	C	A	X	B	B	B	B	X	X	X	A	A
Cyclopentane	—	—	B	A	X	A	A	B	B	B	B	—	—	—	—	A
Cymene	—	—	C	X	X	A	A	—	—	—	—	—	—	—	—	A
Decahdronaphthalene	—	—	X	X	X	A	A	—	—	—	—	—	B	B	—	A
Decanal	—	—	X	—	X	A	X	—	—	—	—	—	—	—	—	A
Decane	—	—	B	X	C	A	A	—	—	—	—	A/70%	A	A	A	A
Decyl Alcohol	—	—	A	X	—	A	B	—	—	—	—	—	—	—	—	A
Denatured Alcohol	—	—	A	B	A	A	B	B	B	A	A	A	A	A	A	A
Detergent Solutions	—	B	A	A	A	A	A	B	—	A	—	A	A	A	—	A
Developing Fluids & Solutions	—	X	A	A	C	A	A	—	X	A	A	—	—	—	—	A
Dextrose	—	B/60°	B	B	A	A	A	A	X	A	A	A	—	—	A	A
Diacetone	—	—	X	X	B	A	X	A	A	A	A	X	X	X	A	A
Diacetone Alcohol	—	C	A	X	B	A	X	A	A	A	A	X	—	—	C	A
Dibenzyl Ether	—	—	X	X	C	A	C	B	B	B	B	—	X	X	C	A
Dibenzyl Sebecate	—	A	X	X	C	A	B	—	—	—	—	—	—	—	—	A
Dibutyl Amine	—	—	C	X	X	A	X	—	A	A	A	X	X	X	B/20°	A
Dibutyl Phthalate (DBP)	—	A	X	X	A	A	B	A	A	A	A	X	C	C	X	A
Dibutyl Sebacate (DBS)	—	—	X	X	C	A	C	—	A	A	—	C	B	B	—	A
Dichlohexylamine	—	—	X	X	X	A	B	—	—	—	—	—	—	—	—	A
Dichloro Isopropyl Ether	—	—	X	X	X	A	X	—	—	—	—	X	X	X	—	A

PERCENTAGE (%) IS THE CONCENTRATION OF THE LIQUID AND DEGREES (^{O}) ARE IN CELSIUS

IWAKI AIR CHEMICAL COMPATIBILITY CHART

LIQUID NAME AND MATERIALS OF CONSTRUCTION	ELASTOMERIC MATERIALS							METALLIC MATERIALS				NON-METALLIC MATERIALS				
	Santoprene® (TPO)	Hytrel™ (TPE/TPEE)	Buna N (NBR)	Neoprene™ (CR)	Nordel® (EPDM)	Teflon® (PTFE)	Viton® (FPM/FKM)	Aluminum (AL-ADC-12)	Cast Iron (FE-S45C)	Stainless Steel (SUS-SCS14/316)	Hastelloy® (C-22)	Polypropylene (GFRPP)	Pure Polypropylene (PP)	Conductive Polypropylene (CP)	Kynar® (Carbon Reinforced PVDF-CR/PVDF)	PTFE Teflon® (PTFE)
Dichloroacetic Acid	—	—	X	X	—	A	X	—	—	—	—	—	—	—	—	A
Dichlorobenzene (o-Dichlorobenzene)	—	—	X	X	—	A	A	X	A	A	—	X	B	B	—	A
Dichlorobutane	A	—	—	—	X	—	A	—	X	B	B	—	—	—	—	A
Dichloroethyl Ether	—	—	X	—	—	A	—	B	—	—	—	—	—	—	—	A
Diesel Oil (Fuel ASTM #2)	—	B	A	C	X	A	A	A	A	A	A	B	B	B	A	A
Diester Synthetic Oils	—	—	B	X	X	A	A	A	A	A	A	—	—	—	—	A
Diethanol Amine	—	—	B	A	—	A	—	—	A	A	A	A	—	—	—	A
Diethlene Ether	—	—	X	X	A	A	X	A	A	A	—	—	—	—	—	A
Diethyl Amine	—	—	C	C	C	A	X	B	B	A	A	A	—	—	A	A
Diethyl Benzene	—	—	X	X	X	A	A	—	—	—	—	—	—	—	—	A
Diethyl Carbonate	—	—	X	X	—	A	—	—	A	—	—	—	—	—	—	A
Diethyl Ether	—	C	B	C	X	A	X	B	A	A	A	X	—	—	A	A
Diethyl Sebecate	—	A	X	X	C	A	B	A	A	A	A	A/50°	A	A	A/50°	A
Diethylene Glycol (DEG)	—	A	A	A	A	A	A	A	A	A	A	A	—	—	—	A
Diethylene Triamine	—	—	B	—	—	A	—	A	A	A	A	—	—	—	—	A
Isobutyl Ketone	—	—	X	X	B	A	X	A	A	A	A	—	—	—	—	A
Isobutylene	—	—	B	C	—	A	C	—	—	—	—	A	—	—	A	A
Disobey Adicate (DIDA)	—	—	X	—	—	A	C	—	—	—	—	—	—	—	—	A
Diisodecyl Phthalate (DIDP)	—	—	X	X	A	A	C	—	—	—	—	—	—	—	—	A
Diisooctyl Adipate (DIOA)	—	—	X	—	—	A	C	A	A	A	A	—	—	—	—	A
Diisooctyl Phthalate (DIOP)	—	—	X	—	—	A	C	—	—	—	—	—	—	—	—	A
Diisooctyl Sebecate (DIOS)	—	—	—	—	B	A	A	—	—	—	—	—	—	—	—	A
Diisopropyl Amine	—	—	B	—	—	A	—	—	—	—	—	—	—	—	—	A
Diisopropyl Benzene	—	—	X	X	X	A	A	—	—	—	—	—	—	—	—	A
Diisopropyl Ketone	—	—	X	X	A	A	X	—	—	A	—	—	—	—	—	A
Dimethyl Ether	—	—	A	B	—	A	A	B	B	B	B	—	—	—	—	A
Dimethyl Formamide (N, N-Dimethyl Formamide(DMF))	—	C	C	X	—	A	X	A	—	A	A	A/50°	A	A	A/50°	A
Dimethyl Phthalate	—	A	X	X	C	C	—	—	—	—	—	—	A	A	A/20°	A
Dimethyl Sulfate	—	—	X	—	—	A	X	—	A	—	—	—	—	—	—	A
Dimethyl Sulfide	—	—	X	—	—	A	—	A	A	A	A	—	—	—	—	A
Dimethylaniline (N, N-Dimethylaniline)	—	—	X	X	C	A	X	B	B	—	—	X	A	A	A	A
Dinitrotoluene (DNT)	—	—	X	X	X	A	C	—	—	A	—	—	—	—	—	A
Dioctyl Phtahalate (DOP)	—	A	X	X	B	A	B	A	A	A	A	—	—	—	—	A
Dioctyl Sebacate (DOS)	—	—	X	X	C	A	C	A	A	A	A	—	—	—	—	A
Dioxolanes	—	—	X	X	B	A	C	—	—	—	—	—	—	—	—	A
Dipentene	—	—	C	X	X	A	A	A	A	A	A	—	—	—	—	A
Diphenyl Oxides	—	—	X	X	C	A	A	B	A	A	A	—	—	—	A	A
Dipropyl Ketone	—	—	X	—	—	A	—	—	—	—	—	—	—	—	—	A
Dipropylamine	—	—	B	—	—	A	—	—	—	—	—	—	—	—	—	A
Dipropylene Glycol	—	—	A	—	—	A	A	—	—	—	—	A	A	A	A	A
Dispersing Oil #10	—	—	X	X	X	A	C	A	A	A	A	—	—	—	—	A
Divinyl Benzene (DVB)	—	—	X	—	—	A	A	—	—	—	—	—	—	—	—	A
Dodecyl Benzene	—	—	X	—	—	A	A	A	A	A	—	—	—	—	—	A
Dow Corning	—	—	A	A	—	A	A	A	—	—	—	—	—	—	—	A
Dowtherm	—	—	X	X	X	A	A	A	B	A	A	—	—	—	—	A
Dry-Cleaning Fluids	—	—	C	X	—	A	A	A	A	A	—	X	X	X	—	A
Dyes	—	—	—	C	—	—	A	B	—	A	—	—	—	—	—	A
Ethyl Silicate	—	—	A	A	A	A	A	B	A	A	A	—	—	—	—	A
Epichlorohydrin	—	X	X	X	B	A	X	A	A	A	A	B	B	B	X	A
Epsom Salts	—	—	A	A	—	A	A	A	—	A	B	A	A	A	A	A
Ethane	—	—	A	C	X	A	A	A	A	A	A	C	C	C	—	A
Ethanol	—	A	A	A	—	A	B	B	B	A	A	A/38°	A/38°	A/38°	A	A
Ethanolamine	—	—	B	C	B	A	X	B	A	A	—	X	X	X	C	A
Ethyl Acetate	A	C	X	X	B	A	X	A	A	A	A	C	B	B	A	A
Ethyl Acetoacetate	—	—	X	X	C	A	X	A	A	A	A	—	—	—	A/20°	A
Ethyl Acrylate	—	—	X	X	C	A	X	A	A	A	A	B	B	B	B/20°	A
Ethyl Aluminum Dichloride	—	—	X	—	—	A	B	—	—	—	—	—	—	—	—	A
Ethyl Amine	—	—	X	C	A	A	X	B	B	A	—	—	—	—	—	A
Ethyl Benzene	X	—	X	X	X	A	A	B	B	B	A	X	X	X	A	A
Ethyl Benzoate	—	—	X	X	C	A	A	A	A	A	A	B	B	B	—	A
Ethyl Bromide	—	—	X	B	B	A	—	X	A	A	A	—	—	—	—	A
Ethyl Bromide	—	—	X	B	B	A	—	X	A	A	A	—	—	—	—	A
Ethyl Butyl Acetate	—	—	X	—	—	A	X	—	—	—	—	—	—	—	—	A
Ethyl Butyl Alcohol	—	—	A	—	—	A	B	—	—	—	—	—	—	—	—	A
Ethyl Butyl Ketone	—	—	X	—	—	A	X	—	—	—	—	—	—	—	—	A
Ethyl Butyraldehyde	—	—	X	—	—	A	X	—	—	—	—	—	—	—	—	A
Ethyl Butyrate	—	—	X	X	X	A	C	B	A	A	A	B	B	B	—	A
Ethyl Caprylate	—	—	X	X	X	A	—	—	—	—	—	—	—	—	—	A

PERCENTAGE (%) IS THE CONCENTRATION OF THE LIQUID AND DEGREES (^{O}) ARE IN CELSIUS

IWAKI AIR CHEMICAL COMPATIBILITY CHART

LIQUID NAME AND MATERIALS OF CONSTRUCTION	ELASTOMERIC MATERIALS							METALLIC MATERIALS				NON-METALLIC MATERIALS				
	Santoprene® (TPO)	Hytrel™ (TPE/TPEE)	Buna N (NBR)	Neoprene™ (CR)	Nordel® (EPDM)	Teflon® (PTFE)	Viton® (FPM/FKM)	Aluminum (AL-ADC-12)	Cast Iron (FE-S45C)	Stainless Steel (SUS-SCS14/316)	Hastelloy® (C-22)	Polypropylene (GFRPP)	Pure Polypropylene (PP)	Conductive Polypropylene (CP)	Kynar® (Carbon Reinforced PVDF-CR/PVDF)	PTFE Teflon® (PTFE)
Ethyl Cellosolve	—	—	C	C	B	A	X	—	—	—	—	—	—	—	—	A
Ethyl Cellulose	—	B	B	B	B	A	C	B	A	B	B	C	C	C	—	A
Ethyl Chloride	X	X	A	C	A	A	A	X	B	A	B	X	X	X	A	A
Ethyl Chlorocarbonate	—	—	—	C	—	A	A	—	—	—	—	—	X	X	—	A
Ethyl Cyanide	—	—	X	B	A	A	X	—	—	—	—	—	—	—	—	A
Ethyl Formate	—	—	X	B	C	A	A	B	A	B	B	—	—	—	—	A
Ethyl Isobutyrate	—	—	X	X	X	A	—	—	—	—	—	—	—	—	—	A
Ethyl Iodide	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	A
Ethyl Mercaptan	—	—	X	C	X	A	B	B	A	B	B	—	—	—	—	A
Ethyl Oxalate	—	—	X	X	A	A	B	—	—	—	—	—	—	—	—	A
Ethyl Pentachlorobenzene	—	—	X	X	—	A	A	X	—	—	—	X	X	X	—	A
Ethyl Propionate	—	—	X	X	X	A	—	A	A	A	A	—	—	—	—	A
Ethyl Sulfate	—	—	A	—	—	A	A	—	—	X	—	—	—	—	—	A
Ethylene	—	—	B	A	C	A	A	A	A	A	—	—	—	—	—	A
Ethylene Chlorohydrin	—	X	X	B	A	A	B	—	B	A	A	X	X	X	A/20°	A
Ethylene Diamine	—	—	B	A	A	A	X	C	A	A	A	A	A	A	B	A
Ethylene Dibromide	—	—	X	X	C	A	B	X	X	B	B	X	—	—	A	A
Ethylene Dichloride (Dutch Oil)	—	X	X	X	X	A	B	X	B	B	B	X	X	X	A	A
Ethylene Glycol Monobutyl Ether	—	—	B	X	B	A	C	A	A	A	A	—	A	A	—	A
Ethylene Glycol Monombutyl Ether Acetate	—	—	C	X	B	A	C	A	A	A	A	—	A	A	—	A
Ethylene Glycol Monomethyl Ether	—	—	C	C	B	A	X	B	B	A	A	—	A	A	—	A
Ethylene Glycol (Ethylene Alcohol)	A	A	A	A	A	A	A/20°	A	A	A	A	A/50°	A	A	A	A
Ethylene Oxide	A	A	X	X	X	A	C	A	B	A	A	C	B	B	A	A
Ethylene Trichloride	—	—	X	X	X	A	A	X	A	A	—	X	X	X	—	A
Ethylhexyl Acetate	—	—	X	—	—	A	X	—	—	—	—	—	—	—	—	A
Ethylhexyl Alcohol	—	—	A	—	—	A	B	A	A	A	A	—	—	—	—	A
Ethylidene Chloride	—	—	X	X	X	A	—	X	B	A	B	—	—	—	—	A
Fatty Acids	B	B	B	C	X	A	A	A/90%	X	A	A	B	B	B	A	A
Ferric Chloride	A	B	A	A	A	A	A	X	X	X	A/10%	A	A	A	A	A
Ferric Hydroxide	—	—	B	—	—	A	C	—	—	A	B/10%	—	—	—	—	A
Ferric Nitrate	—	—	A	A	A	A	A	X	X	B	A/10%	A	A	A	A	A
Ferric Sulfate	—	—	A	A	A	A	A	C	X	B	A/30%	A	A	A	A	A
Ferrous Chloride	—	X	A	A	A	A	A	X	X	B/20%	B/50%	A	A	A	A	A
Ferrous Sulfate	—	A	A	A	A	A	A	A/10%	C	B	A/30%	A	A	A	A	A
Fish Oil	—	—	A	—	—	A	A	—	—	—	—	—	—	—	—	A
Fluoboric Acid	—	X	A	B	A	A	C	X	X	A/30%	—	A	A	A	A	A
Fluorine (Liquid)	—	X	X	C	C	A	B	X	—	A	—	X	X	X	A/20°	A
Fluorobenzene	—	—	X	X	X	A	A	—	—	—	—	X	X	X	—	A
Fluorolube(Fluorocarbon Oils)	—	—	C	A	A	A	B	A	A	A	A	X	X	X	—	A
Fluosilicic Acid	—	—	B	A	B	A	A	X	X	A/100°	B	A	A	A	A	A
Formal dehyde	A/40%	C/05°	B	C	A	A	A	A	C	A/90%	A/70%	A	A	A	A/50°	A
Formamide	—	—	A	A	A	A	X	A	B	B	B	—	—	—	—	A
Formic Acid	A/50%	C	C	B	B	A	C	X	X	C	A	A/70%	A	A	A	A
Freon 11 (Trichlorofluoromethane)	—	B	C	C	X	A	B	B	A	A	—	B	B	B	A	A
Freon 113 (Trichlorotrifluoroethane)	—	A/55°	B	A	X	A	B	B	—	A	—	—	X	X	A	A
Freon 114 (Dichlorotetrafluoroethane)	—	B	A	A	C	A	A	B	—	A	—	—	X	X	A	A
Freon 114B2 (Dibromotetrafluoroethane)	—	—	B	A	X	A	B	—	—	—	—	—	—	—	—	A
Freon 115 (Chloropentafluoroethane)	—	—	A	A	A	A	B	A	—	—	—	—	X	X	—	A
Freon 12 (Dichlorofluoromethane)	—	B	B	B	B	A	B	A	A	A	—	—	B	B	A	A
Freon 13 (Chlorofluoromethane)	—	C	A	A	A	A	A	A	A	A	A	—	X	X	—	A
Freon 13B1 (Bromotrifloromethane)	—	—	A	A	A	A	A	—	—	—	—	—	—	—	—	A
Freon 14 (Tetrafluoromethane)	—	—	X	X	B	A	—	—	—	—	—	—	—	—	—	A
Freon 21 (Dichlorofluoromethane)	—	—	X	B	X	A	X	A	—	—	—	—	X	X	A	A
Freon 22 (Chlorofluoromethane)	—	X	X	B	C	A	X	A	A	A	A	—	X	X	A	A
Fruit Juices	—	B	A	A	A	A	A	A/10%	X	A	A	A	A	A	A	A
Fuel Oils (ASTM #1 thru #9)	—	B	A	C	X	A	A	A	A	A	A	C	C	C	A	A
Fumaric Acid	—	—	C	B	—	A	A	—	—	—	—	—	—	—	—	A
Fural	—	X	X	X	X	A	C	—	—	—	—	C	C	C	X	A
Furfural (Ant Oil)	—	—	X	B	B	A	C	A	B	A/20%	B	X	X	X	B/50°	A
Furfuryl Alcohol	—	B	X	—	B	A	X	A	A	A	A	—	—	—	B/38°	A
Fusel Oil	—	—	A	A	A	A	A	—	—	—	—	—	—	—	—	A
Gallic Acid	—	X	B	C	B	A	A	A/20%	X	B	B	A/20°	A	A	A/20°	A
Gasoline	—	A	A	C	X	A	A	A	A	A	A	C	C	C	A	A
Gasoline	X	—	X	X	X	A	A	A	A	A	A	C	X	X	A	A
Gelatin	—	B	A	A	A	A	B	A	A	A	—	A	A	A	A	A
Ginger Oil	—	—	—	A	—	A	A	—	X	A	—	—	—	—	—	A
Glauber's Salt	—	B	A	A	B	A	A	—	—	—	—	—	—	—	—	A
Gluconic Acid	—	—	C	—	—	A	A	B	C	A/50%	A	—	—	—	—	A

PERCENTAGE (%) IS THE CONCENTRATION OF THE LIQUID AND DEGREES (°) ARE IN CELSIUS

IWAKI AIR CHEMICAL COMPATIBILITY CHART

LIQUID NAME AND MATERIALS OF CONSTRUCTION	ELASTOMERIC MATERIALS							METALLIC MATERIALS				NON-METALLIC MATERIALS				
	Santoprene® (TPO)	Hytrel™ (TPE/TPEE)	Buna N (NBR)	Neoprene™ (CR)	Nordel® (EPDM)	Teflon® (PTFE)	Viton® (FPM/FKM)	Aluminum (AL-ADC-12)	Cast Iron (FE-S45C)	Stainless Steel (SUS-SCS14/316)	Hastelloy® (C-22)	Polypropylene (GFRPP)	Pure Polypropylene (PP)	Conductive Polypropylene (CP)	Kynar® (Carbon Reinforced PVDF-CR/PVDF)	PTFE Teflon® (PTFE)
Glucose	—	B	A	A	A	A	A	A	A	A	—	A	A	A	A	A
Glue	—	B	A	A	B	A	A	A	A	B	A	A	B	B	—	A
Glycerol	—	A	A	A	A	A	A	A	B	A	A	A	—	—	A	A
Glycolic Acid	A/30%	—	A	A	—	—	A	—	—	—	A	A	A	A	A	A
Glycols	A	—	A	A	—	A	A	B	B	B	—	A	A	A	A	A
Gold Monocyanide	—	—	A	A	—	—	A	—	—	X	A	—	A	A	—	A
Grape Juice	—	—	C	X	—	A	A	—	X	A	—	A	A	A	A	A
Grapefruit Oil	—	—	X	X	—	A	—	—	X	A	—	—	—	—	—	A
Grease	—	A	A	X	—	A	A	A	—	A	—	—	—	—	—	A
Green Sulfate Liquor	—	X	B	B	A	A	A	B	C	A	B	A	A	A	—	A
Halowax Oil	—	—	X	X	X	A	A	X	—	—	—	—	—	—	—	A
Heptane	X	—	A	C	X	A	A	A	A	A	A	C/60°	C	C	A	A
Heptanol	—	—	A	—	—	—	A	A	A	A	A	A	A	A	—	A
Hexalin	—	—	B	A	C	A	A	—	—	—	—	—	—	—	—	A
Hexanol	—	—	X	A	B	A	C	A	B	A	B	—	—	—	—	A
Hexy Alcohol (1-Hexanol)	—	—	A	B	C	A	A	A	A	A	—	—	—	—	A	A
Hexyl (1-Hexanol)	—	—	A	B	—	A	A	A	—	A	A	A/20°	A/20°	A/20°	A	A
Hexylene Glycol	—	—	A	A	C	A	A	A	A	A	A	—	—	—	—	A
Honey	—	—	—	A	—	A	—	A	A	A	—	A	A	A	—	A
Hydraulic Oil (petroleum base)	—	X	A	B	X	A	A	A	A	A	A	X	X	X	—	A
Hydrazine	—	X	C	C	A	A	X	A	X	A	A	X	A	A	X	A
Hydrobromic Acid	A/10%	—	X	C	A	A	A	X	X	X	—	B	B	B	A	A
Hydrochloric Acid 10%	—	X	B	B	A	A	A	X	C	X	B	X	A	A	A	A
Hydrochloric Acid 20%	—	X	B	B	A	A	A	X	C	X	A	X	A	A	A	A
Hydrochloric Acid 30% (Conc.)	—	X	C	C	A	A	B	X	X	X	A	X	A	A	A	A
Hydrocyanic Acid	—	X	B	C	A	A	A	A/10%	X	A	B	A	A	A	A	A
Hydrofluoric Acid (Conc.) Cold	X	X	—	C	C	A	B	X	X	X	B	X	X	X	B	A
Hydrogen Fluoride	X	—	X	C	C	A	A	X	—	X	A	C	A	A	A	A
Hydrogen Peroxide 10%	—	—	B	B	—	A	A	C	—	A	A	X	—	—	—	A
Hydrogen Peroxide 3%	A	X	B	B	B	A	A	C	—	—	—	X	—	—	A	A
Hydrogen Peroxide 30%	A	X	C	C	B	A	A	C	B	A	A	X	—	—	A	A
Hydrogen Peroxide 90%	X	X	X	B	C	A	A	C	X	A	—	X	—	—	—	A
Hydrogen Sulfide (Wet)	A	A	X	C	A	A	X	A/90%	X	A/75°	A/75°	A	A	A	A	A
Hydroquinone	—	—	C	X	—	A	C	A/90%	B	A/10%	B	—	A	A	A	A
Hydroxyacetic Acid - 10%	—	—	X	X	—	A	—	B	—	B	—	—	—	—	—	A
Hypochlorous Acid	—	—	X	X	B	A	A	X	X	X	A	X	A	A	A	A
Idoform	—	—	—	—	A	A	—	A	A	A	A	—	—	—	A	A
Ink (Water based)	—	—	A	A	—	A	A	C	X	A	A	—	—	—	—	A
Iodine	—	B	B	B	B	A	A	A	X	X	A	A	A	A	A/65°	A
Isoamyl Acetate	—	—	X	X	B	A	X	A	A	A	A	—	—	—	—	A
Isoamyl Alcohol	—	—	A	A	A	A	A	—	—	—	—	—	—	—	—	A
Isoamyl Butyrate	—	—	X	—	—	A	X	A	A	A	A	—	—	—	—	A
Isoamyl Chloride	—	—	X	X	X	A	A	X	—	—	—	—	—	—	—	A
Isobutanol	—	—	B	B	A	A	A	A	—	—	—	A	A	A	A	A
Isobutyl (2-Methyl-1-Propanol)	—	—	C	A	—	A	A	B	—	A	A	—	—	—	—	A
Isobutyl Acetate	—	—	X	X	C	A	X	A	A	A	A	—	—	—	A	A
Isobutyl Alcohol	—	—	B	B	A	A	A	A	—	—	—	A	A	A	—	A
Isobutyl Amine	—	—	X	—	—	A	X	—	—	—	—	—	—	—	—	A
Isobutyl Chloride	—	—	X	—	—	A	B	X	B	B	A/90%	—	—	—	A	A
Isobutyric Acid	—	—	X	B	A	A	—	A	—	—	—	—	—	—	—	A
Isododecane	—	—	B	A	X	A	A	B	B	B	B	—	—	—	—	A
Isooctane	X	A	A	B	X	A	A	A	A	A	A	A	A	A	A	A
Isopentane	—	—	A	—	—	A	A	—	—	—	—	—	—	—	—	A
Isophorone	—	—	X	X	C	A	X	A	A	A	A	—	—	—	—	A
Isoproply (2-Propanol)	—	—	C	B	—	A	A	B	C	A	A	A	A	A	A/65°	A
Isopropyl Acetate	—	—	X	X	B	A	X	A	A	A	A	B	B	B	—	A
Isopropyl Alcohol	A	A	B	A	B	A	A	A/90%	A	A	A	A	A	A	A	A
Isopropyl Amine	—	—	X	—	—	A	X	—	A	A	—	—	—	—	—	A
Isopropyl Chloride	—	—	X	X	X	A	B	X	A	A	A	X	X	X	—	A
Isopropyl Ether	B	—	C	C	X	A	C	B	—	A	—	X	B	B	A/70%	A
Jet Fuels (JP1 to JP6)(ASTM-A,AI&B)	—	X	A	C	X	A	A	A	A	A	A	X	X	X	A	A
Kerosene	—	A	A	C	X	A	A	A	A	A	A	X	B	B	A	A
Ketchup	—	—	A	C	—	A	A	B	X	A	A	A	A	A	—	A
Lactic Acid	—	X	B	B	A	A	A	A	X	A/70%	A/60%	A	A	A	A	A
Lactol (Aliphatic Naphtha Solvent)	—	—	C	X	—	A	A	A	A	A	A	—	—	—	—	A
Lacquer Solvents	—	C	X	X	X	A	X	X	B	A	A	C	C	C	X	A
Lacquers	—	X	X	X	X	A	X	X	B	A	A	—	—	—	—	A
Lard (Lard Oil)	—	B	A	C	X	A	A	A	A	B	A	A	A	A	A	A

PERCENTAGE (%) IS THE CONCENTRATION OF THE LIQUID AND DEGREES (^{O}) ARE IN CELSIUS

IWAKI AIR CHEMICAL COMPATIBILITY CHART

LIQUID NAME AND MATERIALS OF CONSTRUCTION	ELASTOMERIC MATERIALS							METALLIC MATERIALS				NON-METALLIC MATERIALS				
	Santoprene® (TPO)	Hytrel™ (TPE/TPEE)	Buna N (NBR)	Neoprene™ (CR)	Nordel® (EPDM)	Teflon® (PTFE)	Viton® (FPM/FKM)	Aluminum (AL-ADC-12)	Cast Iron (FE-S45C)	Stainless Steel (SUS-SCS14/316)	Hastelloy® (C-22)	Polypropylene (GFRPP)	Pure Polypropylene (PP)	Conductive Polypropylene (CP)	Kynar® (Carbon Reinforced PVDF-CR/PVDF)	PTFE Teflon® (PTFE)
Latex	—	—	A	A	—	A	—	A	—	A	—	A	A	A	—	A
Lauryl Alcohol (n-Dodecanol)	—	—	A	—	—	A	B	A	A	A	A	—	—	—	—	A
Lavender Oil	—	—	B	X	X	A	B	—	—	—	—	—	—	—	—	A
Lead Acetate	A	—	B	A	A	A	X	X	—	B	B	A	A	A	A	A
Lead Chloride	—	—	—	B	—	A	—	X	—	B	B	A	A	A	A	A
Lead Nitrate	—	—	B	A	A	A	A	X	B	B	B	A	A	A	A	A
Lead Sulfamate	—	—	B	A	—	A	A	—	—	—	—	A	A	A	—	A
Lemon Oil (Cedro Oil)	—	—	—	C	—	A	A	A	—	A	—	—	X	X	—	A
Lignin Liquor	—	—	A	A	—	A	A	—	—	A	—	—	—	—	—	A
Ligroin (Ligroine) (Benzine)	—	—	A	B	X	A	A	—	A	A	—	X	B	B	—	A
Lime Bleach	—	—	A	C	A	A	A	X	—	—	—	B	B	B	—	A
Lime Slurries	—	C	B	A	—	A	B	B	—	B	—	—	—	—	—	A
Lime Sulfur	—	—	A	A	A	A	A	X	—	A	—	A	A	A	—	A
Lime, Soda	—	—	B	B	A	A	B	—	—	—	—	—	—	—	—	A
Limonene	—	—	C	X	X	A	A	—	—	—	—	—	—	—	—	A
Lindol (Tritolyl Phosphate)	—	—	X	C	—	A	B	—	—	—	—	—	—	—	—	A
Linolenic Acid	—	—	B	X	X	A	B	A	—	A	A	A	A	A	A	A
Linseed Oil (Flaxseed Oil)	—	B	A	A	C	A	A	A	A	A	A	A	A	A	A	A
Litnium Bromide	—	—	A	X	—	A	A	—	A	—	—	—	—	—	A	A
Lubricating Oils (petroleum)	—	A	A	B/65°	X	A	A	A	A	A	A	C	B	B	A	A
Lye (Potassium Hydroxide)	—	C	C	B	—	A	B	—	—	A	—	A	A	A	A/65°	A
Magnesium Carbonate	—	—	A	A	C	A	A	A	B	B	B	A	A	A	A	A
Magnesium Chloride	A	—	A	A	A	A	A	A/20%	B/30%	B/40%	A	A	A	A	A	A
Magnesium Hydroxide	—	C	B	B	A	A	A	A/10%	A	A	A	A	A	A	A	A
Magnesium Nitrate	—	—	A	A	A	A	A	B/50%	B	A	B	A	A	A	A	A
Magnesium Oxide	—	—	A	A	—	A	B	A/10%	A	A	A	—	—	—	—	A
Magnesium Sulfate	A	B	A	A	A	A	A	A/70%	A	A/40%	A	A	A	A	A	A
Maleic Acid	—	—	X	A	X	A	A	A/20%	B/60%	B	A	A	A	A	A	A
Maleic Anhydride	—	—	—	—	X	A	A	A/20%	B	A	A	—	—	—	—	A
Malic Acid	—	—	B	C	X	A	A	B	—	A	B/212°	—	B	B	—	A
Maple Sugar Liquors	—	—	A	A	A	A	A	—	—	A	—	—	—	—	—	A
Mayonnaise	—	—	A	A	—	A	—	X	X	A	A	A	A	A	—	A
Mercuric Chloride	—	—	A	B	A	A	A	X	X	X	B/30%	A	A	A	A	A
Mercuric Cyanide	—	—	B	B	A	A	A	X	B	B	B	A	A	A	A	A
Mercurous Nitrate	—	—	B	B	A	A	A	X	B	B/100°	B	B	B	B	A	A
Mercury	A	A	A	A	A	A	A	X	A	A	A	A	A	A	A	A
Mesityl Oxide	—	—	X	X	B	A	X	A	A	A	A	—	—	—	—	A
Methane	—	B	A	B	X	A	A	A	A	A	A	B	B	B	A	A
Methlacrylic Acid	—	—	—	B	—	A	B	—	—	—	—	—	—	—	—	A
Methyl	—	—	A	A	X	A	X	B	A	A	A	A/50°	A	A	A	A
Methyl Acetate	—	C	X	C	C	A	X	A	A	A	A	C	C	C	—	A
Methyl Acetoacetate	—	—	X	—	—	A	X	—	A	A	A	—	—	—	—	A
Methyl Acrylate	—	—	—	C	C	A	X	—	A	A	—	—	—	—	A/20°	A
Methyl Acrylic Acid	—	—	—	C	C	A	X	—	—	—	—	—	—	—	—	A
Methyl Alcohol (Methanol)	A	A	A	A	A	A	B	B	A	A	A	A	A	A	A	A
Methyl Amine	B	—	B	A	A	A	A/90%	B	B	A	B	X	—	—	C	A
Methyl Amyl Acetate	—	—	A	—	—	A	X	A	A	A	A	—	—	—	—	A
Methyl Amyl Alcohol	—	—	A	—	—	A	X	A	A	A	A	—	—	—	—	A
Methyl Aniline	—	—	A	A	A	A	—	—	—	—	—	—	—	—	—	A
Methyl Bromide	X	X	C	X	A	A	A	X	A	A	B	X	X	X	A	A
Methyl Butyl Ketone (2-hexanone)	—	—	X	X	B	A	X	—	—	A	—	X	X	X	—	A
Methyl Butyrate	—	—	X	X	X	A	—	A	A	A	A	—	—	—	—	A
Methyl Cellosolve	—	—	X	X	—	A	X	A	—	—	—	A	A	A	A	A
Methyl Chloride	X	X	X	X	C	A	B	X	A	A	A	X	X	X	A	A
Methyl Cyclopentane	—	—	B	X	X	A	A	—	—	A	—	—	—	—	—	A
Methyl Dichloride	—	—	X	X	—	—	A	X	—	—	—	X	X	X	—	A
Methyl Ethyl Ketone	—	X	X	X	A	A	X	A	A	A	A	X	C	C	X	A
Methyl Formate	—	—	X	B	C	A	X	A	A	A	—	—	—	—	—	A
Methyl Hexane	—	—	A	A	X	A	A	—	—	—	—	—	—	—	—	A
Methyl Isobutyl Ketone (Hexone)	—	X	X	X	C	A	X	A	B	B	A	C/20°	B	B	A/20°	A
Methyl Isopropyl Ketone	—	X	X	X	C	A	X	—	—	A	—	C	C	C	A/20°	A
Methyl Iodide	—	—	X	X	A	A	—	X	A	A	A	—	—	—	—	A
Methyl Methacrylate	—	—	X	X	X	A	C	B	—	A	—	—	A	A	A/20°	A
Methyl Oleate	—	—	X	X	C	A	B	—	—	—	—	—	—	—	—	A
Methyl Propyl Ketone	—	—	X	X	B	A	X	—	—	—	—	—	—	—	—	A
Methyl Salicylate	—	—	X	X	C	A	B	A	A	—	—	—	B	B	—	A
Methylamine	—	—	B	A	A	A	A/90%	B	B	A	B	A	A	A	—	A
Methylene Bromide	—	—	X	X	—	A	B	X	A	A	A	—	—	—	A	A

PERCENTAGE (%) IS THE CONCENTRATION OF THE LIQUID AND DEGREES (°) ARE IN CELSIUS

IWAKI AIR CHEMICAL COMPATIBILITY CHART

LIQUID NAME AND MATERIALS OF CONSTRUCTION	ELASTOMERIC MATERIALS							METALLIC MATERIALS				NON-METALLIC MATERIALS				
	Santoprene® (TPO)	Hytrel™ (TPE/TPEE)	Buna N (NBR)	Neoprene™ (CR)	Nordel® (EPDM)	Teflon® (PTFE)	Viton® (FPM/FKM)	Aluminum (AL-ADC-12)	Cast Iron (FE-S45C)	Stainless Steel (SUS-SCS14/316)	Hastelloy® (C-22)	Polypropylene (GFRPP)	Pure Polypropylene (PP)	Conductive Polypropylene (CP)	Kynar® (Carbon Reinforced PVDF-CR/PVDF)	PTFE Teflon® (PTFE)
Methylene Chloride	X	X	X	X	X	A	B	X	B	A/90%	A	X	X	X	B/38°	A
Milk	A	B	B	A	A	A	A	A	X	A	A	A	A	A	A	A
Mine Water	—	—	A	—	—	A	—	B	—	B	A	—	—	—	—	A
Mineral Oil (petroleum)	—	A	A	B	X	A	A	A	A	A	A	B	B	B	A	A
Mixed Acids	—	—	X	X	B	A	A	X	X	B	B	X	—	—	A	A
Molasses	A	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Monochloroacetone	—	—	X	C	A	A	C	X	B	B	B	X	—	—	—	A
Monochlorobenzene	—	C	X	X	—	A	A	X	A	A	—	X	X	X	A/38°	A
Monoethanolamine	—	—	B	C	—	A	C	B	A	A	—	X	X	X	X	A
Monomethylether	—	—	A	B	—	A	A	—	—	—	—	—	—	—	—	A
Monovinyl Acetylene	—	—	A	B	—	A	A	—	—	—	—	—	—	—	—	A
Mustard	—	B	C	A	—	A	X	B	X	A	A	A	A	A	—	A
n-Amyl Amine (1-Aminopentane)	—	—	C	X	X	A	X	—	—	—	—	—	—	—	—	A
Naphtha	—	A	A	X	X	A	A	A	B	A	A	X	C	C	A	A
Naphtha Coal Tar (Benzol)	—	—	X	X	X	A	A	A	B	A	A	—	—	—	—	A
Naphthalene	C	C	X	X	X	A	A	B	A	A	A	A	A	A	A	A
Naphthoic Acid	—	—	B	—	X	A	A	B	B	A	B	—	—	—	—	A
Neatsfoot Oil	—	—	A	—	C	A	A	—	—	A	—	—	—	—	—	A
Neohexane (2.2-dimethylbutane)	—	—	A	—	—	A	A	—	—	—	—	—	—	—	—	A
Neosol	—	—	A	A	B	A	C	B	B	A	A	—	—	—	—	A
Neville Acid	—	—	C	C	C	A	B	—	—	—	—	—	—	—	—	A
n-Hexane	—	A	A	B	X	A	A	A	A	A	A	C/60°	C/60°	C/60°	A	A
n-Hexane 1	—	—	A	B	X	A	A	—	—	—	—	—	—	—	—	A
Nickel Acetate	—	—	B	B	A	A	X	B/10%	—	A	—	A	A	A	A	A
Nickel Chloride	—	X	A	A	A	A	A	X	X	B	A/80%/93°	A	A	A	A	A
Nickel Nitrate	—	—	A	A	A	A	A	X	—	A	B	A	A	A	A	A
Nickel Sulfate	A	—	A	A	A	A	A	X	X	A/40%	B	A	A	A	A	A
Nitrana (Ammonia Fertilizer)	—	—	B	B	—	A	C	—	—	A	—	—	—	—	—	A
Nitric Acid (Concentrated)	X	X	X	X	X	A	C	A	X	A	A/40%	X	—	—	C/50°	A
Nitric Acid 10%	B	X	X	B	B	A	A	A	X	A	A	A	A	A	A	A
Nitric Acid 25%	C	X	X	C	B	A	A	X	X	A/30%	A/30%	B	B	B	A	A
Nitric Acid 35%	X	X	X	X	C	A	A	X	X	A/40%	A/40%	C	B	B	A	A
Nitric Acid 50%	X	X	X	X	X	A	B	X	X	A	X	X	B	B	A	A
Nitric Acid 70%	X	X	X	X	X	A	C	—	X	A	X	X	—	—	B	A
Nitrobenzene	A	X	X	X	X	A	B	A	A	A	B/55%/100°	B	B	B	A/20°	A
Nitroethane	—	—	X	C	C	A	X	A	A	A	A	C	C	C	A/20°	A
Nitrogen Tetroxide	—	B/50%	X	X	X	A	C	A	B	A	A	X	X	X	C	A
Nitromethane	—	X	X	C	C	A	X	A	A	A	A	C	C	C	A/50°	A
Nitropropane (1-Nitropropane)	—	—	X	C	A	A	X	A	A	A	A	—	—	—	—	A
n-Methyl Aniline	—	—	X	X	—	A	C	—	—	—	—	C	C	C	—	A
n-Octane	—	—	A	—	X	A	A	—	—	—	—	X	X	X	A	A
n-Propyl Acetate	—	—	X	X	A	A	X	A	—	A	A	C	C	C	A	A
n-Propyl Nitrate	—	—	A	—	B	A	C	A	X	—	—	—	—	—	—	A
Octachlorotoluene	—	—	X	X	—	A	A	X	—	—	—	X	X	X	—	A
Octadecane	—	—	A	B	X	A	A	—	—	—	—	—	—	—	—	A
Octyl	—	—	B	B	—	A	A	A	—	A	A	—	—	—	—	A
Octyl Acetate	—	—	X	—	—	A	X	A	—	A	—	—	—	—	—	A
o-Dichlorobenzene	—	X	X	X	X	A	A	X	B	B	A	B	B	B	A/65°	A
Oleic Acid (Red Oil)	—	A	C	X	C	A	B	A	C	B	A	B	B	B	A	A
Olein	—	—	B	C	—	A	—	—	—	—	—	—	—	—	—	A
Oleum (Fuming sulfuric acid)	X	X	C	X	—	A	A	X	X	A	—	X	X	X	X	A
Olive Oil	—	—	A	C	C	A	A	A	A	A	A	A	A	A	A	A
Oxalic Acid	A	X	C	B	A	A	C	B	X	B/90%	B	A	A	A	A/50%	A
Ozone	—	C	X	B	A	A	A	A/10%	A/10%	A	A	X	X	X	A	A
Paint Thinner, DUCO	—	—	A	C	X	A	B	X	—	A	A	X	X	X	—	A
Paints & Solvents	—	—	X	X	—	A	—	X	—	A	A	—	—	—	—	A
Palm Oil	—	—	A	C	—	A	A	—	A	A	A	—	—	—	—	A
Palmitic Acid	—	B	B	C	B	A	B	B	B	A	—	A	A	A	A	A
Paraffins	—	—	A	—	—	A	—	A	—	A	A	A	A	A	—	A
Paraformaldehyde	—	—	B	B	—	A	C	A/10%	A	A	A	—	—	—	—	A
Paraldehyde	—	—	C	B	A	A	X	A	A	A	A	—	—	—	—	A
Peanut Oil	—	—	A	B	X	A	A	—	A	A	A	A/20°	A/20°	A/20°	A	A
Pentachlorethane	—	—	X	X	—	A	A	X	A	A	A	—	—	—	—	A
Pentachlorophenol (PCP)	—	—	X	X	X	A	A	A	A	A	A	—	—	—	—	A
Pentane	—	B	A	B	X	A	A	A	B	B	—	—	—	—	—	A
Peppermint Oil	—	—	X	X	—	A	A	—	—	A	—	—	B	B	—	A
Perchloric Acid	X	X	X	B	B	A/70%	A	X	X	B	—	—	A	A	A	A
Perchloroethylene	X	X	X	X	X	A	A	X	B	A/90%	B	X	B	B	A	A

PERCENTAGE (%) IS THE CONCENTRATION OF THE LIQUID AND DEGREES (^{O}) ARE IN CELSIUS

IWAKI AIR CHEMICAL COMPATIBILITY CHART

LIQUID NAME AND MATERIALS OF CONSTRUCTION	ELASTOMERIC MATERIALS							METALLIC MATERIALS				NON-METALLIC MATERIALS				
	Santoprene® (TPO)	Hytrel™ (TPE/TPEE)	Buna N (NBR)	Neoprene™ (CR)	Nordel® (EPDM)	Teflon® (PTFE)	Viton® (FPM/FKM)	Aluminum (AL-ADC-12)	Cast Iron (FE-S45C)	Stainless Steel (SUS-SCS14/316)	Hastelloy® (C-22)	Polypropylene (GFRPP)	Pure Polypropylene (PP)	Conductive Polypropylene (CP)	Kynar® (Carbon Reinforced PVDF-CR/PVDF)	PTFE Teflon® (PTFE)
Petroleum Oil (Crude Oil) (Sour)	—	C	B	C	X	A	A	B	B	A	A	X	A	A	A	A
Phenethyl Alcohol	—	—	X	X	B	A	X	A	A	A	A	—	—	—	—	A
Phenol	C	X	X	C	C	A	A	B	A	B	A	C	C	C	A/38°	A
Phenol Sulfonic Acid	—	—	X	—	—	A	X	B	B	B	—	—	—	—	—	A
Phenyl Acetate	—	—	X	X	B	A	X	—	—	—	—	—	—	—	—	A
Phenyl Ethyl Ether	—	—	X	X	X	A	C	—	—	—	—	—	—	—	—	A
Phenylbenzene	—	—	X	X	—	A	A	—	—	—	—	—	—	—	—	A
Pheyl Hyrdazine	—	—	X	X	X	A	A	A	X	—	—	X	—	—	A/50°	A
Phorone (Diisopropylidene Acetone)	—	—	X	X	C	A	A	—	—	—	—	—	—	—	—	A
Phosphoric Acid 10%	A	—	A	B	A	A	A	X	X	A	—	A/50°	A	A	A	A
Phosphoric Acid 20%	B	—	C	B	A	A	A	X	X	A/100°	A	A/50°	A	A	A	A
Phosphoric Acid 50%	C	—	X	B	B	A	A	X	X	A	C	A/50°	A	A	A	A
Phosphorus Oxychloride	—	—	—	X	—	A	—	B	B	B	B	—	—	—	—	A
Phosphorus Trichloride	A	—	X	X	A	A	A	C	B	A	A	X	X	X	A	A
Photographic Developer	—	X	A	A	—	—	A	C	X	A	A	A	A	A	A	A
Pickling Solutions	—	X	—	X	X	A	B	—	—	—	A	—	—	—	—	A
Picric Acid	—	X	B	B	B	—	A	A	C	A	B	B	B	B	A	A
Pinene	—	—	B	X	X	A	A	—	—	—	—	—	—	—	—	A
Piperidine	—	—	X	X	X	A	X	—	—	—	—	—	—	—	—	A
Plating Solutions Cadmium	—	—	B	B	—	A	—	—	—	A	—	X	A	A	B	A
Plating Solutions Chrome	—	—	X	X	C	A	A	—	—	—	A/55°	X	A	A	B	A
Plating Solutions Lead	—	—	B	B	—	A	—	—	—	—	—	A	A	A	B	A
Plating Solutions Others	—	—	A	C	A	A	B	—	—	A	—	—	—	—	—	A
Polyvinyl Acetate Emulsion	—	—	—	C	A	A	—	—	B	—	—	—	B	B	A	A
Potassium Acetate	—	—	B	B	A	A	X	B/10%	A	B	B	A	A	A	A	A
Potassium Bicarbonate	—	—	A	A	—	A	A	B	B/40%	A/30%	B/40%	A	A	A	A	A
Potassium Bisulfate	—	—	A	A	—	A	A	A/10%	X	A/10%	—	A	A	A	A	A
Potassium Bisulfite	—	—	A	A	—	A	A	B/10%	—	B/10%	B/90%	—	—	—	—	A
Potassium Bromide	A	—	A	A	A	A	A	A	B/80%/100°	B/90%/100°	A/70%/75°	A	A	A	A	A
Potassium Carbonate (Potash)	—	—	A	A	A	A	A	X	B	B	A/90%	A	A	A	A	A
Potassium Chlorate	—	—	A	A	A	A	A	X	B	A/60%	A/20%	A	A	A	A	A
Potassium Chloride	A	—	A	A	A	A	A	X	B	A	A/30%/75°	A	A	A	A	A
Potassium Chromate	A/40%	—	A	A	—	A/40%	A	A	A	A	—	A	A	A	A	A
Potassium Copper Cyanide	—	—	A	A	A	A	A	—	—	—	—	A	A	A	—	A
Potassium Cyanide	A	—	A	A	A	A	A	C	B	B/90%/100°	B/30%	A	A	A	A	A
Potassium Dichromate	—	—	A	A	A	A	A	A	A	A	B/25%	A	A	A	A	A
Potassium Hydroxide (Lye)	—	X	B	B	A	A	B	X	B	A	B/50%	A	A	A	A/65°	A
Potassium Iodide	A/03%	—	A	A	A	A	A	B/10%	—	B	B	A	A	A	A	A
Potassium Nitrate	A	—	A	A	A	A	A	A/80%	B	B/80%/100°	B/80%/100°	A	A	A	A	A
Potassium Nitrite	—	B	A	A	A	A	A	B	B	B	B	—	—	—	—	A
Potassium Pemanganate	—	X	C	C	A	A	B	A/10%	B	B/30%/100°	A	B	B	B	A	A
Potassium Phosphate	—	—	A	A	A	A	A	X	X	B/30%	B/10%	—	—	—	—	A
Potassium Silicate	—	—	A	A	A	A	A	B	B	B	B	—	—	—	—	A
Potassium Sulfate	—	B	A	A	A	A	A	B	B	A	A	A	A	A	A	A
Potassium Sulfide	—	—	A	A	A	A	A	X	B	B	B/10%	A	A	A	A	A
Potassium Sulfite	—	—	A	A	A	A	A	A	X	B/50%	—	A	A	A	A	A
Propane (LPG)	—	B	A	B	X	A	A	A	A	A	A	X	B	B	A	A
Propionaldehyde (Propanol)	—	—	X	—	—	A	X	A	A	A	A	—	—	—	—	A
Propionic Acid	—	—	X	X	A	A	A	A	X	B	A/90%	—	—	—	—	A
Propyl Alcohol (1-Propanol)	—	—	B	B	A	A	A	A	A	A	A	A	A	A	A	A
Propylene	—	—	X	X	X	A	A	A	A	A	A	—	—	—	—	A
Propylene Dichloride	—	—	X	X	X	A	B	X	A	A	B	—	—	—	—	A
Propylene Glycol	—	—	A	C	A	A	A	A	A	A	A	A	A	A	A	A
Propylene Oxide	—	—	—	X	C	A	X	B	B	A	—	X	C	C	X	A
Proryl	—	—	A	A	—	A	A	A	—	A	A	A	A	A	A/50°	A
Pydraul (Phosphate Ester Base Fluid)	—	A	X	X	B	A	A	—	A	A	A	—	—	—	—	A
Pyranol	—	—	A	X	—	A	A	—	—	—	—	—	—	—	—	A
Pyridine	—	X	X	X	C	A	X	A	B	A	A/50%/38°	C	C	C	X	A
Pyroligneous Acid (Wood Vinegar)	—	—	C	C	C	A	A	B	X	A/10%	—	A	A	A	A	A
Pyrrole	—	—	X	X	X	A	C	—	—	—	—	—	—	—	—	A
Quatemary Ammonium Salts	—	—	A	A	—	A	A	—	X	A	—	—	—	—	—	A
Rape-Seed Oil	—	—	B	C	A	A	A	—	A	A	A	—	—	—	—	A
Red Fuming	X	X	X	X	X	A	X	A	X	A	B	X	—	—	X	A
Rose Oil	—	—	—	C	—	A	A	—	—	A	—	—	—	—	—	A
Rosin	—	—	A	C	—	A	—	A	—	A	A	A	A	A	—	A
Rosin Oil	—	—	A	A	—	A	A	—	—	—	—	—	A	A	—	A
Rotenone	—	—	A	A	A	A	A	—	—	—	—	—	—	—	—	A
Rubber Latex Emulsions	—	—	—	—	—	A	A	A	—	A	A	—	—	—	—	A

PERCENTAGE (%) IS THE CONCENTRATION OF THE LIQUID AND DEGREES (°) ARE IN CELSIUS

IWAKI AIR CHEMICAL COMPATIBILITY CHART

LIQUID NAME AND MATERIALS OF CONSTRUCTION	ELASTOMERIC MATERIALS							METALLIC MATERIALS				NON-METALLIC MATERIALS				
	Santoprene® (TPO)	Hytrel™ (TPE/TPEE)	Buna N (NBR)	Neoprene™ (CR)	Nordel® (EPDM)	Teflon® (PTFE)	Viton® (FPM/FKM)	Aluminum (AL-ADC-12)	Cast Iron (FE-S45C)	Stainless Steel (SUS-SCS14/316)	Hastelloy® (C-22)	Polypropylene (GFRPP)	Pure Polypropylene (PP)	Conductive Polypropylene (CP)	Kynar® (Carbon Reinforced PVDF-CR/PVDF)	PTFE Teflon® (PTFE)
Rubber Solvents (Petroleum Distillate)	—	—	X	C	—	A	X	A	—	A	A	—	—	—	—	A
Rum	—	—	A	A	A	A	B	—	—	A	A	—	A	A	—	A
Rust Inhibitors	—	—	A	C	—	—	A	—	—	A	—	A	A	A	—	A
Sal Ammoniac	—	A	A	A	—	A	A	X	X	A	—	—	—	—	—	A
Sal Soda	—	—	A	A	A	A	A	X	A	A	A	—	—	—	—	A
Salad Dressing	—	—	A	—	—	—	A	B	X	A	—	A	A	A	—	A
Salicylic Acid	—	—	B	B	A	A	B	A	X	B	A	A	A	A	A	A
Salt Water (Brine)	A	B	A	B	A	A	A	B	X	A	A	A	A	A	A	A
Sea Water	A	X	A	B	A	A	A	A	C	A	A	A	A	A	A	A
Sesame Seed Oil	—	—	A	C	—	A	A	—	A	A	—	—	—	—	—	A
Sewage	A	B	A	B	C	A	A	B	B	A	A	A	A	A	A	A
Silicate Esters	—	C	B	A	X	A	A	—	—	—	—	—	—	—	—	A
Silicone Oils (Veresilube, etc)	—	A	A	C	A	A	A	B	B	A	A	A	A	A	A	A
Silver Cyanide	—	—	—	A	—	A	—	X	A	A	A	A	A	A	A	A
Silver Nitrate	A/08%	—	B	A	A	A	A	X	X	A/60%	A/60%	A	A	A	A	A
Skydrol Hydraulic Fluid (Phosphate Ester Base)	—	A	X	X	A	A	C	—	—	A	A	—	—	—	—	A
Soap Solutions	A	A	A	B	A	A	A	C	X	A	A	A	A	A	A	A
Soda Ash	—	B	A	A	A	A	A	X	A	A	A	—	—	—	—	A
Sodium Hexametaphosphate	—	—	B	B	B	A	A	C	B	B	A	—	—	—	—	A
Sodium Acetate	—	—	C	C	A	A	X	A	A	A	A	A	A	A	A	A
Sodium Aluminate	—	—	A	A	—	A	A	—	A/40%	A/40%	B/10%	A	A	A	A	A
Sodium Bicarbonate	A	B	A	A	A	A	A	B	C	A/20%	A/20%	A	A	A	A	A
Sodium Bisulfite	A	B	C	A	A	A	A	B	B/20%	A50%	B	A	A	A	A	A
Sodium Bisulfite	A	B	A	A	A	A	A	B/50%	C	B/50%	B	A	A	A	A	A
Sodium Borate	A	B	A	A	A	A	A	B	—	A	A	A/60°	A	A	A	A
Sodium Bromide	—	—	—	—	—	A	—	C	C	B/30%	B/50%	A	A	A	A	A
Sodium Chlorate	—	—	A	B	A	A	A	B/70%/100°	B	B	B/70%/212°	A	A	A	A	A
Sodium Chloride	A	A	A	A	A	A	A	B	B/30%	A	A	A	A	A	A	A
Sodium Chromate	—	A	A	A	—	A	A	A/80%/100°	A/60%	A/60%	A/60%	A	A	A	A	A
Sodium Cyanide	—	A	A	A	A	A	A	X	A	A	—	A	A	A	A	A
Sodium Dichromate	—	X	—	B	A	A	A	—	—	—	—	A	A	A	A	A
Sodium Fluoride	—	—	A	A	A	A	A	B/30%	—	B/10%	B/10%	A	A	A	A	A
Sodium Hydroxide (Lye)	A	X	B	B	A	A	X	X	B/50%	A/50%	B/70%/100°	X	A	A	A	A
Sodium Hydroxide (Lye)	A	X	B	B	A	A	X	X	B/50%	A/50%	B/70%/100°	X	A	A	A	A
Sodium Hypochlorite	A/15%	X	X	B	C	A	B	X	X	X	B/10%	X	B	B	A	A
Sodium Metaphosphate	—	—	B	C	A	A	A	X	—	B	A	X	X	X	—	A
Sodium Metasilicate	—	—	A	A	—	—	A	B	—	A	A	A	A	A	A	A
Sodium Nitrate	A	B	C	B	A	A	A	A/90%	A/90%	A/90%	A/30%	A	A	A	A	A
Sodium Nitrite	—	—	A	X	—	A	A	A	A	A	A	A	A	A	A	A
Sodium Perborate	—	B	C	B	A	A	A	X	B/10%	A	B/10%	A	A	A	A	A
Sodium Peroxide	—	B	B	B	B	A	A	B/10%	A/90%	B/10%	B/10%	B	B	B	A	A
Sodium Phosphate (Tribasic)	A	B	B	B	A	A	A	X	B/75°	B	A	A	A	A	A	A
Sodium Silicates	—	A	A	A	A	A	A	A	A	A	B	A	A	A	A	A
Sodium Sulfate (Salt Cake)	A	A	A	B	A	A	A	B/30%	B	A	A	A	A	A	A	A
Sodium Sulfide	—	A	A	A	A	A	A	A/30%/100°	B	A/30%/75°	B/50%/100°	A	A	A	A	A
Sodium Sulfite	—	A	A	A	A	A	A	A/30%	X	A/30%	B/30%/100°	A	A	A	A	A
Sodium Tetraborate	—	B	A	—	—	A	A	—	—	A	—	C	C	C	A	A
Sodium Thiosulfate	—	—	A	A	A	A	A	A	C	A/50%	B/50%	A	A	A	A	A
Sorghum	—	—	A	A	—	A	—	—	A	A	A	—	—	—	—	A
Soy Sauce	—	—	A	A	—	A	—	—	X	A	—	—	—	—	—	A
Soybean Oil	—	A	A	A	C	A	A	A	A	A	A	B	A	A	—	A
Spem Oil (Whale Oil)	—	—	A	X	—	A	A	—	A	A	A	—	—	—	—	A
Stannic Chloride	—	B	A	B	B	A	A	X	C	A/10%	B	A	A	A	A	A
Stannous Chloride	—	B/15%	A	A	B	A	A	X	B	A/10%	A	A	A	A	A	A
Starch	—	B	A	A	B	A	C	A	C	A	A	A	A	A	—	A
Stearic Acid	—	B	B	B/70°	B	A	A	C	C	A	B	A	A	A	A	A
Stoddard Solvent	—	A	A	C	X	A	—	A	A	A	X	A	A	A	X	A
Styrene	—	X	X	X	X	A	A	A	A	A	A	—	X	X	A	A
Sucrose Solution	—	A	A	A	A	A	A	A	A	A	A	—	—	—	—	A
Sulfamic Acid	—	A	B	A	—	A	—	A/10%	X	X	—	X	—	—	X	A
Sulfite Liquors	—	B	A	B	C	A	A	—	—	—	A	—	—	—	—	A
Sulfur	A	A	X	B	A	A	A	A	A	A	B	A	A	A	A	A
Sulfur Chloride	—	C	C	X	X	A	A	B	X	B	A	X	C	C	A	A
Sulfur Dioxide	A	X	X	A	B	A	A	A	B	A/10%	A/80%	A	A	A	A	A
Sulfur Hexafluoride	—	A	B	A	A	A	A	—	—	—	—	—	—	—	—	A
Sulfur Trioxide	—	X	C	C	C	A	A	B	B	B	B	X	X	X	X	A
Sulfuric Acid 10%	A	X	B	A	A	A	A	X	X	X	A	A	A	A	C	A
Sulfuric Acid 25%	A	X	C	B	B	A	A	X	X	X	A	A	A	A	C	A

PERCENTAGE (%) IS THE CONCENTRATION OF THE LIQUID AND DEGREES (^{O}) ARE IN CELSIUS

IWAKI AIR CHEMICAL COMPATIBILITY CHART

LIQUID NAME AND MATERIALS OF CONSTRUCTION	ELASTOMERIC MATERIALS							METALLIC MATERIALS				NON-METALLIC MATERIALS				
	Santoprene® (TPO)	Hytrel™ (TPE/TPEE)	Buna N (NBR)	Neoprene™ (CR)	Nordel® (EPDM)	Teflon® (PTFE)	Viton® (FPM/FKM)	Aluminum (AL-ADC-12)	Cast Iron (FE-S45C)	Stainless Steel (SUS-SCS14/316)	Hastelloy® (C-22)	Polypropylene (GFRPP)	Pure Polypropylene (PP)	Conductive Polypropylene (CP)	Kynar® (Carbon Reinforced PVDF-CR/PVDF)	PTFE Teflon® (PTFE)
Sulfuric Acid 50%	A	X	C	B	B	A	A	X	X	X	A	A	A	A	C	A
Sulfuric Acid 60%	A	X	X	C	B	A	A	X	X	X	A	B	A	A	C	A
Sulfuric Acid 75%	B	X	X	X	C	A	A	X	C	X	A	C	A	A	C	A
Sulfuric Acid 95%	C	X	X	X	C	A	A	X	B	A	A	X	B	B	C	A
Sulfuric Acid Concentrated	—	X	X	X	C	A	B	X	B	B	A	X	C	C	A/50°	A
Sulfuric Acid Fuming	—	X	X	X	X	A	C	X	X	B	B	—	—	—	—	A
Sulfurous Acid	—	C	B	X	C	A	A	B	X	B	B	A	A	A	A	A
Tall Oil	—	—	A	B	X	A	A	X	B/100°	B	A	A	A	A	A	A
Tallow	—	—	A	—	—	A	A	A	—	A	—	B	B	B	—	A
Tannic Acid	A/10%	A/10%	C	B	C	A	A	A	A	A	B/10%	A	A	A	A	A
Tanning Liquors	—	—	A	B	—	A	—	A	—	A	A	A	A	A	—	A
Tar, Bituminuous (Coal Tar)	—	B	B	C	X	A	A	A	—	A	A	A	A	A	—	A
Tartaric Acid	—	B	B	A	B	A	A	A/20%	X	A	A/90%	A	A	A	A	A
Terpenes	—	—	C	X	X	A	A	A	X	—	—	—	—	—	—	A
Terpineol	—	—	C	X	C	A	A	A	A	A	A	X	X	X	B/50°	A
Tertiary Butyl Alcohol	—	—	A	A	—	A	—	—	—	—	—	B	B	B	—	A
Tertiary Butyl Catechol	—	—	X	B	—	A	A	C	B	B	—	—	—	—	—	A
Tertiary Butyl Mercaptan	—	—	X	X	—	A	A	—	—	—	—	—	—	—	—	A
Tetra Bromomoethane	—	—	X	X	—	A	A	X	—	—	—	X	X	X	—	A
Tetrabutyl Titanate	—	—	B	A	B	A	A	—	—	—	—	—	—	—	—	A
Tetrachlorodifluoroethane	—	—	X	X	—	A	—	—	—	—	—	—	X	X	—	A
Tetrachloroethene	X	—	X	X	X	A	A	X	A	C	A/90%/100°	X	X	X	A	A
Tetrachloroethylene	—	—	—	—	—	—	—	—	—	—	—	—	X	X	A	A
Tetraethyl Lead	—	—	B	X	X	A	B	B	A	A	—	A	A	A	A	A
Tetraethylene Glycol (TEG)	—	—	A	—	—	A	A	—	—	—	—	—	—	—	—	A
Tetrahydrofuran (THF)	—	C	X	X	C	A	X	—	—	—	—	C/38°	C	C	B/20°	A
Tetrahydronaphthalene	—	—	X	X	X	A	A	A	A	A	A	C	C	C	—	A
Thionyl Chloride	—	—	X	X	X	A	B	C	A	A	A/10%	B	B	B	X	A
Thiophene	—	—	X	X	X	A	C	—	—	—	—	—	—	—	—	A
Titanium Tetrachloride	—	—	C	X	X	A	A	X	A	B	B	B	B	B	B	A
Toluene	X	C	C	X	X	A	X	A	A	A	A	X	X	X	A	A
Toluene Diisocyanate	—	B	—	X	A	A	—	—	—	—	—	—	—	—	—	A
Toluidine	—	—	X	—	—	A	B	A	A	A	A	—	—	—	—	A
Tomato Pulp & Juice	—	—	A	—	—	A	—	B	—	A	A	A	A	A	A	A
Toothpaste	—	—	A	C	—	A	A	—	X	A	A	—	—	—	—	A
Transformer Oil (Petroleum)	—	—	B	C	X	A	A	A	A	A	A	B	B	B	—	A
Transmission Fluid (Type A)	—	B	A	C	X	A	A	A	A	A	A	—	—	—	—	A
Triacetin	—	—	A	B	A	A	X	B	—	—	—	—	—	—	—	A
Triallyl Phosphate	—	—	X	C	A	A	A	—	—	—	—	B	B	B	A	A
TriaRyl Phosphate	—	—	X	C	—	A	A	—	—	—	—	—	—	—	—	A
Tributoxyl Ethyl Phosphate	—	—	X	X	A	A	B	—	—	—	—	—	—	—	—	A
Tributyl Mercaptan	—	—	X	X	—	A	A	—	—	—	—	—	—	—	—	A
Tributyl Phosphate	—	C	X	X	C	A	X	A	A	A	—	C/38°	A	A	A/38°	A
Trichloroacetic Acid (TCA)	—	X	C	B	C	A	B	X	X	X	B	B	B	B	B	A
Trichlorobenzenes	—	—	X	X	—	A	B	X	A	A	B	—	—	—	—	A
Trichloroethane	—	—	X	X	X	A	B	X	A	A	A	X	—	—	A	A
Trichloroethylene (Ex-Tri) (Hi-Tri)	X	X	X	X	X	A	C	X	B	A/90%/75°	A	X	B	B	A	A
Trichloropropane	—	—	X	A	—	A	B	X	A	A	A	X	X	X	—	A
Tricresyl Phosphate (Lindol)	—	C	X	C	A	A	C	—	A	B	A	B	B	B	X	A
Tridecyl Alcohol	—	—	A	—	—	A	B	—	—	—	—	—	—	—	—	A
Triethanol Amine (TEA)	—	X	X	A	B	A	C	A	A	A	A	A	A	A	X	A
Triethyl Aluminum (ATE)	—	—	X	X	—	A	B	—	—	—	—	—	—	—	—	A
Triethyl Amine	—	—	A	B	—	A	—	—	A	A	A	C	C	C	A/50°	A
Triethyl Brate	—	—	X	X	—	A	A	—	—	—	—	—	—	—	—	A
Triethylene Glycol (TEG)	—	—	A	—	—	A	A	—	—	—	—	A	A	A	—	A
Trimethylene Glycol	—	—	A	—	A	A	A	A	A	A	A	—	—	—	—	A
Trinitrotoluene (TNT)	—	—	X	B	X	A	C	—	—	—	—	—	—	—	—	A
Trioctyl Phosphate (TOP)	—	—	X	X	A	A	B	—	—	—	—	—	—	—	—	A
Tung Oil (Wood Oil)	—	B	A	C	X	A	A	A	—	A	A	A	A	A	—	A
Turpentine	—	B	A	X	X	A	A	A	A	A	A	X	B	B	A	A
Unsymmetrical Dimethyl Hydrazine (UDMH)	—	—	C	C	A	A	X	—	—	—	—	X	—	—	A	A
Urea	A/30%	B	B	B	—	A	A	B	—	B/50%	—	A	A	A	A	A
Urine	A	—	A	X	—	A	A	A	A	A	A	A	A	A	A	A
Valeric Acid	—	—	X	X	A	A	—	A	—	—	—	—	—	—	—	A
Varnish	—	—	B	C	X	A	A	A	—	A	—	—	—	—	—	A
Vanilla Extract	—	—	A	X	—	A	X	—	—	A	—	—	—	—	—	A
Vegetable Juices	—	—	A	C	—	A	—	C	—	A	—	—	—	—	—	A
Vegetable Oils	—	—	B	C	A	A	A	A	B	A	A	X	—	—	—	A

PERCENTAGE (%) IS THE CONCENTRATION OF THE LIQUID AND DEGREES (^{O}) ARE IN CELSIUS

IWAKI AIR CHEMICAL COMPATIBILITY CHART

LIQUID NAME AND MATERIALS OF CONSTRUCTION	ELASTOMERIC MATERIALS							METALLIC MATERIALS				NON-METALLIC MATERIALS				
	Santoprene® (TPO)	Hytrel™ (TPE/TPEE)	Buna N (NBR)	Neoprene™ (CR)	Nordel® (EPDM)	Teflon® (PTFE)	Viton® (FPM/FKM)	Aluminum (AL-ADC-12)	Cast Iron (FE-S45C)	Stainless Steel (SUS-SCS14/316)	Hastelloy® (C-22)	Polypropylene (GFRPP)	Pure Polypropylene (PP)	Conductive Polypropylene (CP)	Kynar® (Carbon Reinforced PVDF-CR/PVDF)	PTFE Teflon® (PTFE)
Vinegar	A	C	C	B	A	A	A	C	X	A	A	A	A	A	A	A
Vinyl Acetate	—	—	X	B	—	A	X	B	A	A	A	B	B	B	A	A
Vinyl Chloride	—	—	X	X	C	A	A	X	A	A	A	X	—	—	B	A
Walnut Oil	—	—	A	B	—	A	A	—	—	—	—	—	—	—	—	A
Water Distilled	A	—	A	C	A	A	A	A	C	A	A	A	A	A	A	A
Water Fresh	A	A/22°	A	B	A	A	A	A	A	A	A	A	A	A	A	A
Waxes	—	—	A	A	X	A	—	A	—	A	A	—	—	—	—	A
Weed Killers	—	—	B	C	—	—	A	X	—	A	—	—	—	—	—	A
Whisky	—	B	B	A	A	A	A	A	X	A	A	A	A	A	A	A
White Oil (Mineral) (Petroleum)	—	—	A	C	X	A	A	—	—	A	A	—	—	—	—	A
White Sulfate Liquor	—	—	B	A	A	A	B	B	C	A	B	A	A	A	A	A
Wines	—	A	A	A	A	A	B	C	X	A	A	A	A	A	A	A
Wort, Distillery	—	—	—	A	—	A	A	A	B	A	A	—	—	—	—	A
Xylene	X	C	X	X	X	A	A	A	B	B	A	X	—	—	A	A
Xylidines	—	—	—	X	X	A	X	B	B	—	—	—	—	—	—	A
Zeolite	—	—	C	C	A	A	A	—	—	A	A	—	—	—	—	A
Zinc Acetate	—	—	C	B	A	A	X	C	—	—	—	A	A	A	A	A
Zinc Carbonate	—	—	A	—	—	A	A	B	B	B	B	—	A	A	—	A
Zinc Chloride	A	A	B	B	A	A	A	A/10%	B	A/10%	A	A	A	A	A	A
Zinc Hydrosulfite	—	—	A	A	—	A	A	X	—	A	—	—	A	A	—	A
Zinc Sulfate	A	X	A	A	A	A	B	B/20%	X	B	B/20%	A	A	A	A	A

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