



WARNING

The information in this chart has been supplied by other reputable sources and is to be used ONLY as a guide in selecting equipment for appropriate chemical compatibility. Before permanent installation, test the equipment with the chemicals and under the specific conditions of your application.

Ratings of chemical behaviour listed in this chart apply at a 48-hr exposure period. Cole-Parmer has no knowledge of possible effects beyond this period. We does not warrant (neither express nor implied) that the information in this chart is accurate or complete or that any material is suitable for any purpose.

DANGER

Variations in chemical behaviour during handling due to factors such as temperature, pressure, and concentrations can cause equipment to fail, even though it passed an initial test.

SERIOUS INJURY MAY RESULT

Use suitable guards and/or personal protections when handling chemicals.

	MEDIUM	PEEK	PVDF	N/A =non available
1	Acetaldehyde	A-Excellent	D-Severe Effect	
2	Acetamide	N/A	C-Fair	
3	Acetate Solvent	N/A	A-Excellent	
4	Acetic Acid	A-Excellent	C-Fair	
5	Acetic Acid 20%	A-Excellent	A-Excellent	
6	Acetic Acid 80%	A-Excellent	C-Fair	
7	Acetic Acid, Glacial	N/A	A-Excellent	
8	Acetic Anhydride	N/A	B-Good D-Severe Effect	
9	Acetone	A-Excellent	D-Severe Effect	
10	Acetyl Bromide	N/A	N/A	
11	Acetyl Chloride (dry)	N/A	A-Excellent	
12	Acetylene	A-Excellent	A-Excellent	
13	Acrylonitrile	A-Excellent	A-Excellent	
14	Adipic Acid	N/A	A-Excellent	
15	Alcohols:Amyl	A-Excellent	A-Excellent	
16	Alcohols:Benzyl	A-Excellent	A-Excellent	
17	Alcohols:Butyl	A-Excellent	A-Excellent	
18	Alcohols:Diacetone	N/A	A-Excellent	
19	Alcohols:Ethyl	A-Excellent	N/A	
20	Alcohols:Hexyl	N/A	N/A	
21	Alcohols:Isobutyl	N/A	N/A	
22	Alcohols:Isopropyl	A-Excellent	N/A	
23	Alcohols:Methyl	A-Excellent	A-Excellent	
24	Alcohols:Octyl	N/A	N/A	
25	Alcohols:Propyl	A-Excellent	A-Excellent	
26	Aluminum Chloride	A-Excellent	A-Excellent	
27	Aluminum Chloride 20%	A-Excellent	A-Excellent	
28	Aluminum Fluoride	N/A	A-Excellent	
29	Aluminum Hydroxide	N/A	A-Excellent	
30	Aluminum Nitrate	N/A	A-Excellent	
31	Aluminum Potassium Sulfate 10%	A-Excellent	B-Good	
32	Aluminum Potassium Sulfate 100%	A-Excellent	N/A	
33	Aluminum Sulfate	A-Excellent	A-Excellent	
34	Alums	N/A	N/A	
35	Amines	A-Excellent	N/A	
36	Ammonia 10%	A-Excellent	A-Excellent	
37	Ammonia Nitrate	N/A	A-Excellent	
38	Ammonia, anhydrous	A-Excellent	A-Excellent	
39	Ammonia, liquid	B-Good	A-Excellent	
40	Ammonium Acetate	N/A	N/A	
41	Ammonium Bifluoride	N/A	A-Excellent	
42	Ammonium Carbonate	N/A	A-Excellent	
43	Ammonium Caseinate	N/A	N/A	
44	Ammonium Chloride	N/A	A-Excellent	
45	Ammonium Hydroxide	A-Excellent	A-Excellent	
46	Ammonium Nitrate	A-Excellent	A-Excellent	
47	Ammonium Oxalate	N/A	N/A	
48	Ammonium Persulfate	N/A	A-Excellent	
49	Ammonium Phosphate, Dibasic	N/A	A-Excellent	
50	Ammonium Phosphate, Monobasic	N/A	N/A	
51	Ammonium Phosphate, Tribasic	N/A	N/A	

52	Ammonium Sulfate	N/A	A-Excellent
53	Ammonium Sulfite	N/A	N/A
54	Ammonium Thiosulfate	N/A	N/A
55	Amyl Acetate	A-Excellent	A-Excellent
56	Amyl Alcohol	A-Excellent	A-Excellent
57	Amyl Chloride	N/A	A-Excellent
58	Aniline	A-Excellent	A-Excellent
59	Aniline Hydrochloride	N/A	A-Excellent
60	Antifreeze	A-Excellent	N/A
61	Antimony Trichloride	A-Excellent	A-Excellent
62	Aqua Regia (80% HCl, 20% HNO3)	D-Severe	Effect
63	Arochlor 1248	Effect	A-Excellent
64	Aromatic Hydrocarbons	A-Excellent	N/A
65	Arsenic Acid	A-Excellent	N/A
66	Arsenic Salts	N/A	A-Excellent
67	Asphalt	N/A	N/A
68	Barium Carbonate	A-Excellent	A-Excellent
69	Barium Chloride	N/A	A-Excellent
70	Barium Cyanide	A-Excellent	A-Excellent
71	Barium Hydroxide	N/A	N/A
72	Barium Nitrate	N/A	A-Excellent
73	Barium Sulfate	N/A	N/A
74	Barium Sulfide	A-Excellent	A-Excellent
75	Beer	A-Excellent	A-Excellent
76	Beet Sugar Liquids	A-Excellent	A-Excellent
77	Benzaldehyde	N/A	A-Excellent
78	Benzene	A-Excellent	A-Excellent
79	Benzene Sulfonic Acid	D-Severe	Effect
80	Benzoic Acid	Effect	N/A
81	Benzol	A-Excellent	A-Excellent
82	Benzonitrile	N/A	A-Excellent
83	Benzyl Chloride	N/A	N/A
84	Bleaching Liquors	N/A	N/A
85	Borax (Sodium Borate)	N/A	N/A
86	Boric Acid	A-Excellent	A-Excellent
87	Brewery Slop	A-Excellent	A-Excellent
88	Bromine	N/A	N/A
89	Butadiene	D-Severe	Effect
90	Butane	Effect	A-Excellent
91	Butanol (Butyl Alcohol)	N/A	A-Excellent
92	Butter	A-Excellent	A-Excellent
93	Buttermilk	N/A	N/A
94	Butyl Amine	N/A	N/A
95	Butyl Ether	A-Excellent	A-Excellent
96	Butyl Phthalate	N/A	A-Excellent
97	Butylacetate	A-Excellent	B-Good
98	Butylene	A-Excellent	B-Good
99	Butyric Acid	A-Excellent	A-Excellent
100	Calcium Bisulfate	A-Excellent	A-Excellent
101	Calcium Bisulfide	N/A	N/A

102	Calcium Bisulfite	N/A	A-Excellent
103	Calcium Carbonate	A-Excellent	A-Excellent
104	Calcium Chlorate	N/A	A-Excellent
105	Calcium Chloride	A-Excellent	A-Excellent
106	Calcium Hydroxide	A-Excellent	A-Excellent
107	Calcium Hypochlorite	A-Excellent	A-Excellent
108	Calcium Nitrate	A-Excellent	A-Excellent
109	Calcium Oxide	A-Excellent	A-Excellent
110	Calcium Sulfate	A-Excellent	A-Excellent
111	Calgon	A-Excellent	N/A
112	Cane Juice	N/A	A-Excellent
		D-Severe	
113	Carbolic Acid (Phenol)	Effect	A-Excellent
		D-Severe	
114	Carbon Bisulfide	Effect	N/A
115	Carbon Dioxide (dry)	A-Excellent	A-Excellent
116	Carbon Dioxide (wet)	B-Good	A-Excellent
		D-Severe	
117	Carbon Disulfide	Effect	B-Good
118	Carbon Monoxide	B-Good	B-Good
119	Carbon Tetrachloride	A-Excellent	A-Excellent
120	Carbon Tetrachloride (dry)	N/A	A-Excellent
121	Carbon Tetrachloride (wet)	N/A	A-Excellent
122	Carbonated Water	N/A	N/A
123	Carbonic Acid	A-Excellent	A-Excellent
124	Catsup	A-Excellent	N/A
125	Chloric Acid	N/A	N/A
126	Chlorinated Glue	N/A	N/A
127	Chlorine (dry)	A-Excellent	A-Excellent
		D-Severe	
128	Chlorine Water	Effect	B-Good
		D-Severe	
129	Chlorine, Anhydrous Liquid	Effect	A-Excellent
130	Chloroacetic Acid	A-Excellent	A-Excellent
131	Chlorobenzene (Mono)	A-Excellent	A-Excellent
132	Chlorobromomethane	N/A	N/A
133	Chloroform	A-Excellent	A-Excellent
			D-Severe
134	Chlorosulfonic Acid	A-Excellent	Effect
135	Chocolate Syrup	N/A	N/A
		D-Severe	
136	Chromic Acid 10%	Effect	A-Excellent
137	Chromic Acid 30%	A-Excellent	A-Excellent
138	Chromic Acid 5%	A-Excellent	A-Excellent
		D-Severe	
139	Chromic Acid 50%	Effect	A-Excellent
140	Chromium Salts	N/A	N/A
141	Cider	N/A	N/A
142	Citric Acid	A-Excellent	A-Excellent
143	Citric Oils	A-Excellent	N/A
144	Cloroxr (Bleach)	B-Good	A-Excellent
145	Coffee	N/A	N/A
146	Copper Chloride	A-Excellent	A-Excellent
147	Copper Cyanide	A-Excellent	A-Excellent

148	Copper Fluoborate	N/A	N/A
149	Copper Nitrate	A-Excellent	A-Excellent
150	Copper Sulfate >5%	A-Excellent	A-Excellent
151	Copper Sulfate 5%	A-Excellent	A-Excellent
152	Cream	N/A	N/A
153	Cresols	A-Excellent	A-Excellent
154	Cresylic Acid	A-Excellent	B-Good
155	Cupric Acid	N/A	N/A
156	Cyanic Acid	N/A	N/A
157	Cyclohexane	A-Excellent	A-Excellent D-Severe
158	Cyclohexanone	A-Excellent	Effect
159	Detergents	A-Excellent	A-Excellent D-Severe
160	Diacetone Alcohol	N/A	Effect
161	Dichlorobenzene	A-Excellent	A-Excellent
162	Dichloroethane	A-Excellent	A-Excellent
163	Diesel Fuel	A-Excellent	A-Excellent
164	Diethyl Ether	A-Excellent	A-Excellent D-Severe
165	Diethylamine	A-Excellent	Effect
166	Diethylene Glycol	N/A	A-Excellent
167	Dimethyl Aniline	N/A	A-Excellent D-Severe
168	Dimethyl Formamide	A-Excellent	Effect
169	Diphenyl	N/A	N/A
170	Diphenyl Oxide	N/A	B-Good
171	Dyes	N/A	N/A
172	Epsom Salts (Magnesium Sulfate)	A-Excellent	A-Excellent
173	Ethane	B-Good	A-Excellent
174	Ethanol	A-Excellent	N/A
175	Ethanolamine	N/A	C-Fair
176	Ether	A-Excellent	B-Good D-Severe
177	Ethyl Acetate	A-Excellent	Effect D-Severe
178	Ethyl Benzoate	N/A	Effect
179	Ethyl Chloride	A-Excellent	A-Excellent
180	Ethyl Ether	N/A	A-Excellent
181	Ethyl Sulfate	N/A	N/A
182	Ethylene Bromide	N/A	A-Excellent
183	Ethylene Chloride	A-Excellent	A-Excellent
184	Ethylene Chlorohydrin	A-Excellent	A-Excellent
185	Ethylene Diamine	A-Excellent	B-Good
186	Ethylene Dichloride	A-Excellent	A-Excellent
187	Ethylene Glycol	A-Excellent	A-Excellent
188	Ethylene Oxide	A-Excellent	A-Excellent
189	Fatty Acids	A-Excellent	A-Excellent
190	Ferric Chloride	B-Good	A-Excellent
191	Ferric Nitrate	A-Excellent	A-Excellent
192	Ferric Sulfate	A-Excellent	A-Excellent
193	Ferrous Chloride	A-Excellent	A-Excellent
194	Ferrous Sulfate	A-Excellent	A-Excellent
195	Fluoboric Acid	N/A	A-Excellent
196	Fluorine	D-Severe	A-Excellent

197	Fluosilicic Acid	N/A	A-Excellent
198	Formaldehyde 100%	A-Excellent	A-Excellent
199	Formaldehyde 40%	A-Excellent	A-Excellent
200	Formic Acid	C-Fair	A-Excellent
201	Freon 113	A-Excellent	B-Good
202	Freon 12	A-Excellent	A-Excellent
203	Freon 22	A-Excellent	A-Excellent
204	Freon TF	A-Excellent	B-Good
205	Freonr 11	A-Excellent	A-Excellent
206	Fruit Juice	A-Excellent	A-Excellent
207	Fuel Oils	A-Excellent	B-Good D-Severe
208	Furan Resin	N/A	Effect
209	Furfural	N/A	B-Good
210	Gallic Acid	N/A	A-Excellent
211	Gasoline (high-aromatic)	N/A	A-Excellent
212	Gasoline, leaded, ref.	A-Excellent	A-Excellent
213	Gasoline, unleaded	N/A	A-Excellent
214	Gelatin	A-Excellent	A-Excellent
215	Glucose	N/A	A-Excellent
216	Glue, P.V.A.	N/A	N/A
217	Glycerin	A-Excellent	A-Excellent
218	Glycolic Acid	N/A	B-Good
219	Gold Monocyanide	N/A	A-Excellent
220	Grape Juice	N/A	A-Excellent
221	Grease	N/A	A-Excellent
222	Heptane	A-Excellent	A-Excellent
223	Hexane	A-Excellent	A-Excellent
224	Honey	N/A	A-Excellent
225	Hydraulic Oil (Petro)	A-Excellent	A-Excellent
226	Hydraulic Oil (Synthetic)	A-Excellent	A-Excellent
227	Hydrazine	A-Excellent	A-Excellent
228	Hydrobromic Acid 100%	D-Severe Effect	A-Excellent
229	Hydrobromic Acid 20%	Effect	A-Excellent
230	Hydrochloric Acid 100%	A-Excellent	A-Excellent
231	Hydrochloric Acid 20%	A-Excellent	A-Excellent
232	Hydrochloric Acid 37%	A-Excellent	A-Excellent
233	Hydrochloric Acid, Dry Gas	A-Excellent	A-Excellent
234	Hydrocyanic Acid	A-Excellent	A-Excellent
235	Hydrocyanic Acid (Gas 10%)	A-Excellent D-Severe	N/A
236	Hydrofluoric Acid 100%	Effect D-Severe	A-Excellent
237	Hydrofluoric Acid 20%	Effect D-Severe	A-Excellent
238	Hydrofluoric Acid 50%	Effect D-Severe	A-Excellent
239	Hydrofluoric Acid 75%	Effect	A-Excellent
240	Hydrofluosilicic Acid 100%	N/A	A-Excellent
241	Hydrofluosilicic Acid 20%	N/A	A-Excellent
242	Hydrogen Gas	N/A	A-Excellent

243	Hydrogen Peroxide 10%	A-Excellent	A-Excellent
244	Hydrogen Peroxide 100%	A-Excellent	A-Excellent
245	Hydrogen Peroxide 30%	A-Excellent	A-Excellent
246	Hydrogen Peroxide 50%	A-Excellent	A-Excellent
247	Hydrogen Sulfide (aqua)	A-Excellent	A-Excellent
248	Hydrogen Sulfide (dry)	A-Excellent	A-Excellent
249	Hydroquinone	N/A	N/A
250	Hydroxyacetic Acid 70%	N/A	A-Excellent
251	Ink	N/A	A-Excellent
252	Iodine	C-Fair	A-Excellent
253	Iodine (in alcohol)	A-Excellent	A-Excellent
254	Iodoform	N/A	C-Fair
255	Isooctane	A-Excellent	A-Excellent
256	Isopropyl Acetate	N/A	D-Severe Effect
257	Isopropyl Ether	A-Excellent	D-Severe Effect
258	Isotane	N/A	A-Excellent
259	Jet Fuel (JP3, JP4, JP5)	A-Excellent	B-Good
260	Kerosene	A-Excellent	A-Excellent
261	Ketones	A-Excellent	C-Fair
262	Lacquer Thinners	N/A	N/A
263	Lacquers	N/A	D-Severe Effect
264	Lactic Acid	A-Excellent	B-Good
265	Lard	A-Excellent	A-Excellent
266	Latex	N/A	A-Excellent
267	Lead Acetate	A-Excellent	A-Excellent
268	Lead Nitrate	N/A	A-Excellent
269	Lead Sulfamate	N/A	A-Excellent
270	Ligroin	A-Excellent	A-Excellent
271	Lime	N/A	A-Excellent
272	Linoleic Acid	N/A	A-Excellent
273	Lithium Chloride	N/A	A-Excellent
274	Lithium Hydroxide	N/A	N/A
275	Lubricants	A-Excellent	A-Excellent
276	Lye: Ca(OH) ₂ Calcium Hydroxide	B-Good	A-Excellent
277	Lye: KOH Potassium Hydroxide	B-Good	A-Excellent
278	Lye: NaOH Sodium Hydroxide	B-Good	D-Severe Effect
279	Magnesium Bisulfate	N/A	N/A
280	Magnesium Carbonate	N/A	A-Excellent
281	Magnesium Chloride	B-Good	A-Excellent
282	Magnesium Hydroxide	A-Excellent	A-Excellent
283	Magnesium Nitrate	N/A	A-Excellent
284	Magnesium Oxide	N/A	N/A
285	Magnesium Sulfate (Epsom Salts)	A-Excellent	A-Excellent
286	Maleic Acid	A-Excellent	A-Excellent
287	Maleic Anhydride	N/A	A-Excellent
288	Malic Acid	N/A	A-Excellent
289	Manganese Sulfate	N/A	A-Excellent
290	Mash	N/A	N/A
291	Mayonnaise	N/A	A-Excellent
292	Melamine	N/A	N/A

293	Mercuric Chloride (dilute)	A-Excellent	A-Excellent
294	Mercuric Cyanide	N/A	A-Excellent
295	Mercurous Nitrate	N/A	A-Excellent
296	Mercury	A-Excellent	A-Excellent
297	Methane	A-Excellent	A-Excellent
298	Methanol (Methyl Alcohol)	A-Excellent	A-Excellent
299	Methyl Acetate	A-Excellent	B-Good D-Severe Effect
300	Methyl Acetone	N/A	Effect
301	Methyl Acrylate	N/A	B-Good
302	Methyl Alcohol 10%	A-Excellent	A-Excellent
303	Methyl Bromide	N/A	A-Excellent D-Severe Effect
304	Methyl Butyl Ketone	A-Excellent	Effect
305	Methyl Cellosolve	N/A	A-Excellent
306	Methyl Chloride	N/A	A-Excellent D-Severe Effect
307	Methyl Dichloride	N/A	Effect D-Severe
308	Methyl Ethyl Ketone	A-Excellent	Effect
309	Methyl Ethyl Ketone Peroxide	N/A	N/A D-Severe Effect
310	Methyl Isobutyl Ketone	A-Excellent	Effect
311	Methyl Isopropyl Ketone	A-Excellent	N/A
312	Methyl Methacrylate	N/A	B-Good
313	Methylamine	N/A	C-Fair
314	Methylene Chloride	A-Excellent	B-Good
315	Milk	A-Excellent	A-Excellent
316	Mineral Spirits	N/A	N/A
317	Molasses	A-Excellent	B-Good
318	Monochloroacetic acid	A-Excellent	B-Good
319	Monoethanolamine	N/A	C-Fair
320	Morpholine	N/A	B-Good
321	Motor oil	A-Excellent	B-Good
322	Mustard	N/A	A-Excellent
323	Naphtha	A-Excellent	A-Excellent
324	Naphthalene	A-Excellent	A-Excellent
325	Natural Gas	A-Excellent	N/A
326	Nickel Chloride	A-Excellent	A-Excellent
327	Nickel Nitrate	A-Excellent	A-Excellent
328	Nickel Sulfate	A-Excellent	A-Excellent
329	Nitrating Acid (<15% HNO3)	N/A	N/A
330	Nitrating Acid (>15% H2SO4)	N/A	N/A
331	Nitrating Acid (S1% Acid)	N/A	N/A
332	Nitrating Acid (S15% H2SO4)	N/A	N/A
333	Nitric Acid (20%)	A-Excellent D-Severe Effect	A-Excellent
334	Nitric Acid (50%)	Effect	A-Excellent
335	Nitric Acid (5-10%)	A-Excellent D-Severe Effect	A-Excellent
336	Nitric Acid (Concentrated)	Effect	A-Excellent
337	Nitrobenzene	A-Excellent	A-Excellent
338	Nitrogen Fertilizer	N/A	N/A
339	Nitromethane	A-Excellent	A-Excellent
340	Nitrous Acid	N/A	B-Good

341	Nitrous Oxide	A-Excellent	D-Severe Effect
342	Oils:Aniline	A-Excellent	A-Excellent
343	Oils:Anise	N/A	N/A
344	Oils:Bay	N/A	A-Excellent
345	Oils:Bone	N/A	A-Excellent
346	Oils:Castor	A-Excellent	A-Excellent
347	Oils:Cinnamon	N/A	N/A
348	Oils:Citric	N/A	A-Excellent
349	Oils:Clove	N/A	N/A
350	Oils:Coconut	A-Excellent	A-Excellent
351	Oils:Cod Liver	N/A	A-Excellent
352	Oils:Corn	N/A	A-Excellent
353	Oils:Cottonseed	N/A	A-Excellent
354	Oils:Creosote	A-Excellent	N/A
355	Oils:Diesel Fuel (20, 30, 40, 50)	A-Excellent	A-Excellent
356	Oils:Fuel (1, 2, 3, 5A, 5B, 6)	A-Excellent	B-Good
357	Oils:Ginger	N/A	A-Excellent
358	Oils:Hydraulic Oil (Petro)	A-Excellent	A-Excellent
359	Oils:Hydraulic Oil (Synthetic)	A-Excellent	A-Excellent
360	Oils:Lemon	N/A	A-Excellent
361	Oils:Linseed	A-Excellent	A-Excellent
362	Oils:Mineral	A-Excellent	A-Excellent
363	Oils:Olive	N/A	N/A
364	Oils:Orange	N/A	A-Excellent
365	Oils:Palm	N/A	A-Excellent
366	Oils:Peanut	A-Excellent	A-Excellent
367	Oils:Peppermint	N/A	A-Excellent
368	Oils:Pine	N/A	A-Excellent
369	Oils:Rapeseed	N/A	A-Excellent
370	Oils:Rosin	N/A	A-Excellent
371	Oils:Sesame Seed	N/A	A-Excellent
372	Oils:Silicone	A-Excellent	A-Excellent
373	Oils:Soybean	A-Excellent	A-Excellent
374	Oils:Sperm (whale)	N/A	A-Excellent
375	Oils:Tanning	N/A	A-Excellent
376	Oils:Transformer	A-Excellent	A-Excellent
377	Oils:Turbine	N/A	A-Excellent
378	Oleic Acid	A-Excellent	A-Excellent
379	Oleum 100%	N/A	D-Severe Effect
380	Oleum 25%	N/A	C-Fair
381	Oxalic Acid (cold)	A-Excellent	B-Good
382	Ozone	A-Excellent	A-Excellent
383	Palmitic Acid	N/A	A-Excellent
384	Paraffin	A-Excellent	A-Excellent
385	Pentane	A-Excellent	A-Excellent
386	Perchloric Acid	A-Excellent	A-Excellent
387	Perchloroethylene	A-Excellent	A-Excellent
388	Petrolatum	A-Excellent	A-Excellent
389	Petroleum	A-Excellent	A-Excellent
390	Phenol (10%)	N/A	A-Excellent
391	Phenol (Carbolic Acid)	D-Severe Effect	A-Excellent

392	Phosphoric Acid (>40%)	A-Excellent	B-Good
393	Phosphoric Acid (crude)	A-Excellent	A-Excellent
394	Phosphoric Acid (molten)	N/A	D-Severe
395	Phosphoric Acid (S40%)	N/A	Effect
396	Phosphoric Acid Anhydride	N/A	B-Good
397	Phosphorus	N/A	D-Severe
398	Phosphorus Trichloride	A-Excellent	Effect
399	Photographic Developer	N/A	A-Excellent
400	Photographic Solutions	A-Excellent	N/A
401	Phthalic Acid	A-Excellent	B-Good
402	Phthalic Anhydride	N/A	A-Excellent
403	Picric Acid	A-Excellent	A-Excellent
Plating Solutions:			
404	Antimony Plating 130°F	N/A	A-Excellent
405	Arsenic Plating 110°F	N/A	A-Excellent
406	Brass Plating: High-Speed Brass Bath 110°F	N/A	B-Good
407	Brass Plating: Regular Brass Bath 100°F	N/A	B-Good
408	Bronze Plating: Cu-Cd Bronze Bath R.T.	N/A	A-Excellent
409	Bronze Plating: Cu-Sn Bronze Bath 160°F	N/A	A-Excellent
410	Bronze Plating: Cu-Zn Bronze Bath 100°F	N/A	A-Excellent
411	Cadmium Plating: Cyanide Bath 90°F	N/A	A-Excellent
412	Cadmium Plating: Fluoborate Bath 100°F	N/A	A-Excellent
413	Chromium Plating: Barrel Chrome Bath 95°F	N/A	A-Excellent
414	Chromium Plating: Black Chrome Bath 115°F	N/A	C-Fair
415	Chromium Plating: Chromic-Sulfuric Bath 130°F	N/A	C-Fair
416	Chromium Plating: Fluoride Bath 130°F	N/A	C-Fair
417	Chromium Plating: Fluosilicate Bath 95°F	N/A	C-Fair
418	Copper Plating (Acid):Copper Fluoborate Bath 120°F	N/A	A-Excellent
419	Copper Plating (Acid):Copper Sulfate Bath R.T.	N/A	A-Excellent
420	Copper Plating (Cyanide):Copper Strike Bath 120°F	N/A	B-Good
421	Copper Plating (Cyanide): High-Speed Bath 180°F	N/A	A-Excellent
422	Copper Plating (Cyanide):Rochelle Salt Bath 150°F	N/A	A-Excellent
423	Copper Plating (Misc): Copper (Electroless)	N/A	A-Excellent
424	Copper Plating (Misc): Copper Pyrophosphate	N/A	A-Excellent
425	Gold Plating: Acid 75°F	N/A	N/A

426	Gold Plating: Cyanide 150°F	N/A	N/A
427	Gold Plating: Neutral 75°F	N/A	N/A
428	Indium Sulfamate Plating R.T.	N/A	N/A
429	Iron Plating: Ferrous Am Sulfate Bath 150°F	N/A	N/A
430	Iron Plating: Ferrous Chloride Bath 190°F	N/A	N/A
431	Iron Plating: Ferrous Sulfate Bath 150°F	N/A	N/A
432	Iron Plating: Fluoborate Bath 145°F	N/A	N/A
433	Iron Plating: Sulfamate 140°F	N/A	N/A
434	Iron Plating: Sulfate-Chloride Bath 160°F	N/A	N/A
435	Lead Fluoborate Plating	N/A	N/A
436	Nickel Plating: Electroless 200°F	N/A	N/A
437	Nickel Plating: Fluoborate 100-170°F	N/A	N/A
438	Nickel Plating: High-Chloride 130-160°F	N/A	N/A
439	Nickel Plating: Sulfamate 100-140°F	N/A	N/A
440	Nickel Plating: Watts Type 115-160°F	N/A	N/A
441	Rhodium Plating 120°F	N/A	N/A
442	Silver Plating 80-120°F	N/A	N/A
443	Tin-Fluoborate Plating 100°F	N/A	N/A
444	Tin-Lead Plating 100°F	N/A	N/A
445	Zinc Plating: Acid Chloride 140°F	N/A	N/A
446	Zinc Plating: Acid Fluoborate Bath R.T.	N/A	N/A
447	Zinc Plating: Acid Sulfate Bath 150°F	N/A	N/A
448	Zinc Plating: Alkaline Cyanide Bath R.T.	N/A	N/A
449	Potash (Potassium Carbonate)	A-Excellent	A-Excellent
450	Potassium Bicarbonate	A-Excellent	B-Good
451	Potassium Bromide	N/A	A-Excellent
452	Potassium Chlorate	A-Excellent	A-Excellent
453	Potassium Chloride	A-Excellent	A-Excellent
454	Potassium Chromate	N/A	B-Good
455	Potassium Cyanide Solutions	N/A	A-Excellent
456	Potassium Dichromate	N/A	A-Excellent
457	Potassium Ferricyanide	A-Excellent	A-Excellent
458	Potassium Ferrocyanide	A-Excellent	A-Excellent
459	Potassium Hydroxide (Caustic Potash)	A-Excellent	A-Excellent
460	Potassium Hypochlorite	N/A	A-Excellent
461	Potassium Iodide	N/A	A-Excellent
462	Potassium Nitrate	A-Excellent	A-Excellent
463	Potassium Oxalate	N/A	N/A
464	Potassium Permanganate	A-Excellent	A-Excellent
465	Potassium Sulfate	A-Excellent	A-Excellent
466	Potassium Sulfide	A-Excellent	A-Excellent
467	Propane (liquefied)	A-Excellent	A-Excellent
468	Propylene	N/A	N/A
469	Propylene Glycol	N/A	N/A
470	Pyridine	A-Excellent	D-Severe Effect
471	Pyrogalllic Acid	N/A	A-Excellent
472	Resorcinal	A-Excellent	N/A
473	Rosins	N/A	N/A

474	Rum	N/A	N/A
475	Rust Inhibitors	N/A	N/A
476	Salad Dressings	N/A	N/A
477	Salicylic Acid	A-Excellent	A-Excellent
478	Salt Brine (NaCl saturated)	A-Excellent	A-Excellent
479	Sea Water	A-Excellent	A-Excellent
480	Shellac (Bleached)	N/A	N/A
481	Shellac (Orange)	N/A	N/A
482	Silicone	A-Excellent	A-Excellent
483	Silver Bromide	N/A	N/A
484	Silver Nitrate	A-Excellent	A-Excellent
485	Soap Solutions	A-Excellent	A-Excellent
486	Soda Ash (see Sodium Carbonate)	A-Excellent	A-Excellent
487	Sodium Acetate	A-Excellent	A-Excellent
488	Sodium Aluminate	N/A	N/A
489	Sodium Benzoate	A-Excellent	A-Excellent
490	Sodium Bicarbonate	A-Excellent	A-Excellent
491	Sodium Bisulfate	A-Excellent	A-Excellent
492	Sodium Bisulfite	A-Excellent	A-Excellent
493	Sodium Borate (Borax)	A-Excellent	A-Excellent
494	Sodium Bromide	N/A	A-Excellent
495	Sodium Carbonate	A-Excellent	A-Excellent
496	Sodium Chlorate	A-Excellent	A-Excellent
497	Sodium Chloride	A-Excellent	A-Excellent
498	Sodium Chromate	A-Excellent	A-Excellent
499	Sodium Cyanide	A-Excellent	A-Excellent
500	Sodium Ferrocyanide	A-Excellent	A-Excellent
501	Sodium Fluoride	A-Excellent	A-Excellent
502	Sodium Hydrosulfite	A-Excellent	N/A
503	Sodium Hydroxide (20%)	A-Excellent	A-Excellent
504	Sodium Hydroxide (50%)	A-Excellent	A-Excellent
505	Sodium Hydroxide (80%)	A-Excellent	A-Excellent
506	Sodium Hypochlorite (<20%)	B-Good	A-Excellent
507	Sodium Hypochlorite (100%)	B-Good	A-Excellent
508	Sodium Hyposulfate	N/A	N/A
509	Sodium Metaphosphate	A-Excellent	A-Excellent
510	Sodium Metasilicate	A-Excellent	N/A
511	Sodium Nitrate	A-Excellent	A-Excellent
512	Sodium Perborate	A-Excellent	N/A
513	Sodium Peroxide	A-Excellent	A-Excellent
514	Sodium Polyphosphate	A-Excellent	A-Excellent
515	Sodium Silicate	A-Excellent	A-Excellent
516	Sodium Sulfate	A-Excellent	A-Excellent
517	Sodium Sulfide	A-Excellent	A-Excellent
518	Sodium Sulfite	A-Excellent	A-Excellent
519	Sodium Tetraborate	A-Excellent	N/A
520	Sodium Thiosulfate (hypo)	A-Excellent	A-Excellent
521	Sorghum	N/A	N/A
522	Soy Sauce	N/A	N/A
523	Stannic Chloride	A-Excellent	A-Excellent
524	Stannic Fluoborate	N/A	N/A
525	Stannous Chloride	A-Excellent	A-Excellent
526	Starch	A-Excellent	N/A
527	Stearic Acid	A-Excellent	A-Excellent

528	Stoddard Solvent	A-Excellent	A-Excellent
529	Styrene	A-Excellent	N/A
530	Sugar (Liquids)	N/A	N/A
531	Sulfate (Liquors)	N/A	A-Excellent
532	Sulfur Chloride	A-Excellent	A-Excellent
533	Sulfur Dioxide	A-Excellent	A-Excellent
534	Sulfur Dioxide (dry)	A-Excellent	A-Excellent
535	Sulfur Hexafluoride	A-Excellent	N/A
536	Sulfur Trioxide	A-Excellent	N/A
537	Sulfur Trioxide (dry)	A-Excellent	C-Fair
538	Sulfuric Acid (<10%)	A-Excellent	A-Excellent
539	Sulfuric Acid (10-75%)	D-Severe Effect	A-Excellent
540	Sulfuric Acid (75-100%)	D-Severe Effect	A-Excellent
541	Sulfuric Acid (cold concentrated)	D-Severe Effect	A-Excellent
542	Sulfuric Acid (hot concentrated)	D-Severe Effect	C-Fair
543	Sulfurous Acid	A-Excellent	A-Excellent
544	Sulfuryl Chloride	N/A	N/A
545	Tallow	A-Excellent	N/A
546	Tannic Acid	N/A	B-Good
547	Tanning Liquors	N/A	N/A
548	Tartaric Acid	A-Excellent	B-Good
549	Tetrachloroethane	N/A	A-Excellent
550	Tetrachloroethylene	A-Excellent	N/A
551	Tetrahydrofuran	A-Excellent	B-Good
552	Tin Salts	A-Excellent	A-Excellent
553	Toluene (Toluol)	A-Excellent	A-Excellent
554	Tomato Juice	N/A	A-Excellent
555	Trichloroacetic Acid	N/A	B-Good
556	Trichloroethane	A-Excellent	A-Excellent
557	Trichloroethylene	A-Excellent	B-Good
558	Trichloropropane	N/A	N/A
559	Tricresylphosphate	N/A	D-Severe Effect
560	Triethylamine	N/A	A-Excellent
561	Trisodium Phosphate	A-Excellent	A-Excellent
562	Turpentine	A-Excellent	A-Excellent
563	Urea	A-Excellent	A-Excellent
564	Uric Acid	N/A	N/A
565	Urine	N/A	A-Excellent
566	Varnish	A-Excellent	N/A
567	Vegetable Juice	N/A	N/A
568	Vinegar	A-Excellent	B-Good
569	Vinyl Acetate	N/A	A-Excellent
570	Vinyl Chloride	A-Excellent	B-Good
571	Water, Acid, Mine	N/A	A-Excellent
572	Water, Deionized	N/A	A-Excellent
573	Water, Distilled	A-Excellent	A-Excellent
574	Water, Fresh	A-Excellent	A-Excellent
575	Water, Salt	A-Excellent	A-Excellent
576	Weed Killers	N/A	N/A

577	Whey	N/A	N/A
578	Whiskey & Wines	A-Excellent	A-Excellent
579	White Liquor (Pulp Mill)	N/A	A-Excellent
580	White Water (Paper Mill)	N/A	N/A
581	Xylene	A-Excellent	A-Excellent
582	Zinc Chloride	A-Excellent	A-Excellent
583	Zinc Hydrosulfite	N/A	N/A
584	Zinc Sulfate	A-Excellent	A-Excellent

Source: www.coleparmer.com/ Chemical-Resistance

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