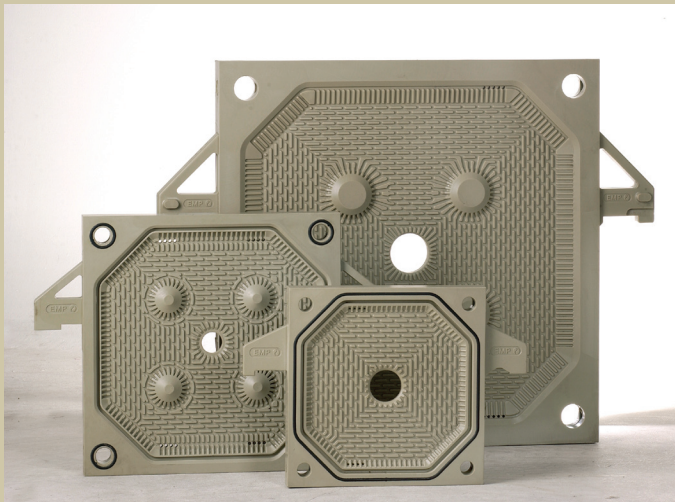
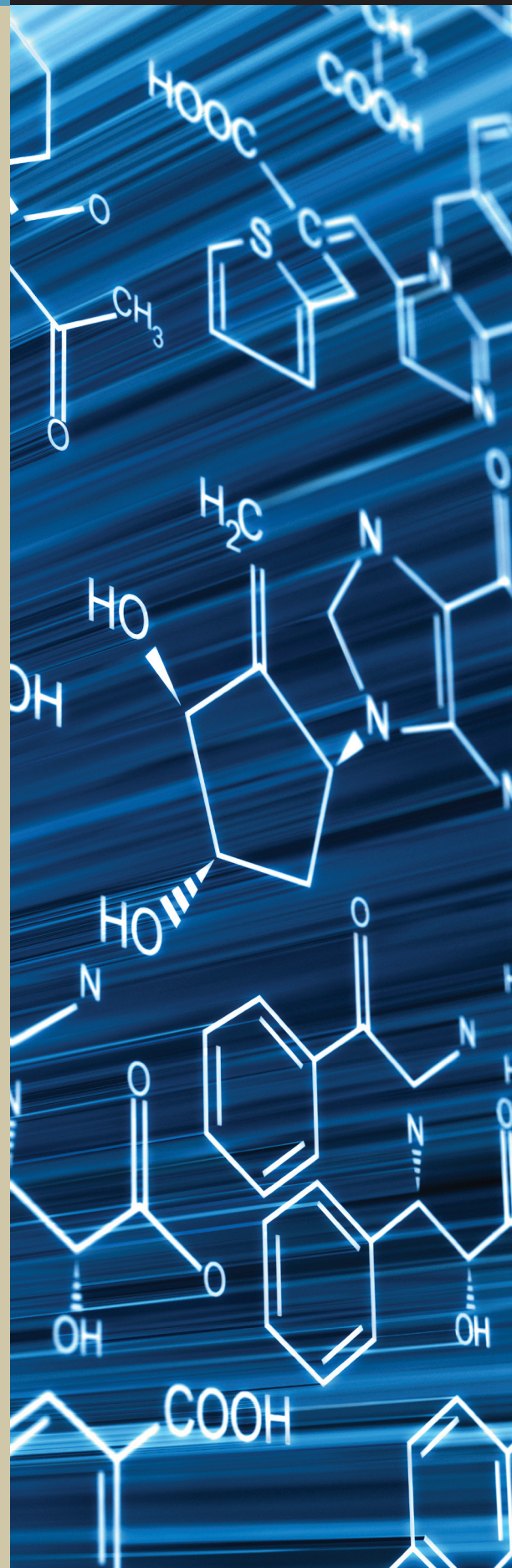




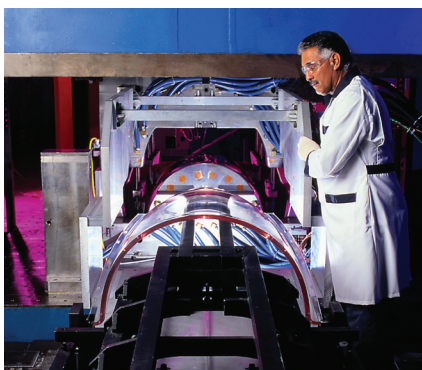
CHEMICAL RESISTANCE GUIDE



NOT JUST ANOTHER INJECTION MOLDER

"Parts made by the EnviroTech Injection Process defy all the usual rules of plastic fabrication. Normally, it's considered impossible to mold plastics anywhere close to five inches thick or 350 pounds in weight. EnviroTech does it routinely."

— PRODUCT ENGINEERING MAGAZINE —



BULK INJECTION MOLDING:

- Large parts – Up to 530 lb. shot (241 KG)
- Heavy wall sections – Up to 5" thick (128 mm)
- 21 Bulk injection machines – Up to 2500-ton clamp capacity and 96"x 120" platen

CONVENTIONAL INJECTION MOLDING:

- Wide Range – 2 oz. to 35 lb. shot (with use of intrusion molding)
- Heavy wall sections – Up to 3" thick (76 mm)
- 5 Conventional injection machines – machine size ranging from 75 ton to 1000 ton

MACHINING & PRODUCTION:

- 8 high speed CNC mills – Maximum horizontal machine travel is 121" x 85"
- Secondary Operations – Hot stamping, hot knife bonding, hot wire bonding, hot air welding, hydrostatic pressure testing, assembly & packaging

MATERIALS

- Polypropylene to PEEK – PP, PE, Nylon, PVDF, PC, TPE, & most engineering resins

Ratings – Chemical Effect

- A** No effect – excellent
B Minor effect – good
C Moderate effect – fair
D Severe effect – not recommended

Explanation of footnotes

- 1** Satisfactory to 72°F (22°C)
2 Satisfactory to 120°F (49°C)

	PLASTICS																		ELASTOMERS					METALS & CERAMICS															
	Cycloc® (ABS)	Delrin® (Acetal)	Carbon/Graphite	CPVC	Kel-F®	Epoxy	Nylon	PEEK	PES	Noryl® PPO	Ryton® PPS	PVC	Kynar® (PVDF)	Phenolic	Polypropylene	Polyethylene	Poly Sulfone	Teflon® TEF	Thermoplastic Polyester	Tygon	Butyl	EPDM	Hypalon®	Natural Rubber	Neoprene®	Nitrile	Silicone	Viton®	Aluminum	Carpenter 20	Cast Bronze	Cast Iron	Hastelloy C	Stainless Steel (316)	Titanium	Ceramic			
Barium Sulfide	-	A	A	A²	-	B¹	A¹	-	A	A²	-	A²	A	-	A	B²	-	A	-	-	A	A	A	A	A	A	A	A	D	A¹	C	-	-	B²	A	A	A		
Beer	-	B	A	A¹	-	A	A¹	A¹	-	-	A¹	-	A¹	A	A	A¹	A²	A	A	-	C	A	A	A	A	A	A	A	A	A	A	A	D	A¹	A	B	A	A	
Beet Sugar Liquids	B	B	A	A²	A	A¹	A	-	-	-	A	-	A²	A	A	B¹	A¹	-	A¹	-	-	A	A	A	A	A	A	A	A	A	C	A	-	-	A	A	A		
Benzaldehyde	B	A	A	D	A	A¹	B	-	D	D	A	D	A¹	D	A¹	A¹	C	A¹	-	D	A	A	D	D	D	D	D	D	D	B	A	A	A	A	B	A	A		
Benzene	D	A¹	A	C¹	B	C¹	A	A	A	D	A	C¹	A²	A	D	C¹	D	A	-	C	D	D	D	D	D	D	D	D	B	A	A	A	A	B	B	A	A		
Benzoic Acid	-	B	A	A	-	A	A¹	B	-	A	A¹	A	A	A	C	A¹	B²	C	A²	-	B	D	D	D	D	D	D	A	B	B	D	D	B¹	B	A	B			
Borax (Sodium Borate)	-	A	A	A	A	A¹	A	-	-	A¹	A	B¹	A	D	A	A²	-	A	-	-	A	A	A	B	C	B	B	A	B¹	A	A	A	B	A	B	A	A		
Boric Acid	-	A	A	A	A	A¹	B	-	A	A¹	A	A²	A	A	A	A²	-	A	-	B	A	A	A	A	A	A	A	A	D	B²	B	D	A	A	A	B			
Brewery Slop	-	A	-	-	-	A	-	-	-	-	-	-	A	A	-	-	-	-	-	-	A	-	-	-	A	A	-	A	-	A	A	-	A	-	A	-	A		
Bromine	D	D	D	D	A	D	D	D	-	A¹	D	C¹	A	D	D	D	-	A	-	B	D	D	D	D	D	D	D	D	D	D	D	-	A	D	A²	D			
Butadiene	-	A	A	A	A	A¹	A¹	-	-	-	A¹	C¹	A	-	D	D	-	A²	-	-	D	C	B	D	B	D	B	A	A	C	-	-	A	-	A	-	A		
Butane	B	A	A	C¹	A	A¹	A²	-	A	D	A	C¹	A	-	C¹	C¹	-	A	-	C	D	D	B	D	A	A	D	A	A	C	-	A	A	C	-	A	A²	A	A
Butanol (Butyl Alcohol)	-	A	A	A	A¹	D	B¹	A	A	A	A	B¹	A	A	A¹	A²	C	A²	-	B	B	B	B	A	A	B	A	B	A	A	-	A	A	B	A	A			
Butter	B	A	-	-	-	A	A	-	A	B	-	-	A	D	A	-	A	A	-	B	A	A	B	D	B	A	A	A	A	-	D	D	-	A	-	A	A		
Buttermilk	B	A	A	A¹	-	A¹	A	-	A	A	-	A¹	A	D	A¹	A¹	A	A	-	B	A	-	-	D	A	C	-	A	A	-	D	D	A	A	-	A	-	A	
Butylene	-	A	A	A	B¹	A¹	B¹	-	-	-	A	C¹	A	A	-	B¹	-	A	-	-	B	D	D	D	C	B	D	A	A	D	-	-	A	-	A	-	A		
Butylacetate	-	A	A	C¹	A¹	B¹	A	-	B	D	A	D	A¹	D	B¹	C¹	D	A	-	D	B	B	D	D	D	D	D	D	B	B¹	A	A	A	A	A	A	A		
Butyric Acid	D	C	A	A	A	C¹	C	-	-	A¹	A	B¹	A	D	C¹	D	-	A²	-	C	B	B	D	-	D	D	-	B¹	B	B	A	D	A¹	B²	A	D			
Calcium Bisulfate	-	-	-	-	-	A	-	-	-	-	-	-	A	D	A	-	-	-	-	-	D	D	A	D	A	A	A	-	-	C	D	-	-	A	-	-	A		
Calcium Bisulfide	-	D	-	A¹	A	A	A	-	-	A	-	A²	A	-	A	-	-	A	-	-	D	D	A	D	A	A¹	A	A	C	B	C	-	-	B	A	A			
Calcium Bisulfite	-	D	A	B	A	A¹	A²	-	-	A¹	A	B	A	-	A	A¹	-	A	-	-	D	D	A	D	A	A	A	A	D	B¹	-	-	B	A	A	-	A		
Calcium Carbonate	-	A	A	A	-	A¹	A	-	-	A²	-	A²	A	-	A	B²	-	A	-	-	A	A	A	A	A	A	A	A	D	B¹	A	-	-	B	B	A	A		
Calcium Chlorate	-	-	-	A	-	-	-	-	-	-	-	-	A	D	A	-	-	A	-	-	-	A	-	-	-	C	-	A	-	-	-	-	-	-	A	-	A		
Calcium Chloride	B	D	A	A²	A	A¹	B¹	-	-	A	A	A²	A	A	A	B²	A	A	-	-	A	A	A	A	A	A	A	A	D	B	A	C	A	B²	A	A	A		
Calcium Hydroxide	-	D	A	A²	A	A¹	A²	-	-	A²	-	A²	A	D	A	B²	B	A	-	-	A	A	A	A	A	A	A	A	C¹	B	D	A	A	B	B	A	A		
Calcium Hypochlorite	-	D	A	B¹	B¹	A¹	C¹	-	A	A	A	B¹	A	A	A²	B²	A	A	-	A	A	A	A	D	C	C¹	B	A	D	B	D	D	B	B	A¹	A	A		
Calcium Sulfate	C	D	A	A²	A	A¹	D	-	-	A	A	A²	A	D	A	B²	-	A	-	-	A²	A	-	-	C	A²	-	A	C	B¹	A	A	B	B	A	A	A		
Calgon	-	B	-	-	-	A	A	-	-	A	-	-	-	D	A	-	-	-	-	-	A	A	-	-	A	A	-	A	-	-	C	D	-	A	-	A	A		
Cane Juice	-	A	-	A²	-	A	A	-	-	-	-	A²	A	A	A	-	-	A	-	A	A	A	A	A	A	A	A	A	B	A	A	A	-	A	-	A	A		
Carbolic Acid (see Phenol)	-	D	A	A	A¹	C¹	D	-	-	D	A	C	A²	D	B²	B¹	-	A	-	C	B	B	C	D	C	D	D	A	B	B	A	D	A	B	A	D			
Carbon Bisulfide	-	A	-	A	-	A	A	-	-	-	D	A	A¹	-	A	-	-	-	-	D	D	D	-	D	D	B	-	A	B	B	B	-	-	B	-	A	A		
Carbon Dioxide	B	A	A	A	A	A¹	A¹	-	-	A¹	A	A	A	A	A	C	A	A	-	-	B	B	B	B	B	A	B	B	B	A	A	D	A	A¹	A	A	A		
Carbon Dioxide (dry)	B	A	A	A	A	A¹	A¹	-	-	A¹	A	A	A	A	A	C¹	A	A	-	-	A	B	B	B	B	B	A	B	B	B	A	A	D	A	A¹	A	A		
Carbon Dioxide (wet)	B	A	A	A	A	A¹	A¹	-	-	A¹	A	A	A	A	A	C¹	A	A	-	-	A	B	B	B	B	A	B	B	B	B	A	A	D	A	A¹	A	A		
Carbon Disulfide	-	A¹	A	C¹	A	C¹	A	-	B	A¹	A	D	A¹	A	A	C¹	D	A	-	-	D	D	D	D	D	D	D	-	A¹	A	B	D	A	B	B	B	B		
Carbon Monoxide	-	A	A	A²	-	A¹	A¹	-	-	A²	-	A²	A	A	A	B²	A	A	-	-	A	A	A	B	B	A	A	A	A	A	C	D	-	A	-	A	A		
Carbon Tetrachloride	D	B¹	A	C¹	A¹	A¹	A	A	A	D	A	B¹	A	A	B¹	B¹	A¹	A	-	C	D	D	D	D	D	D	C	D	A	B	A	C	A¹	B	A	A			
Carbonated Water	-	A	-	A	-	A	A	-	-	A	-	A	A	-	A	A	A	-	A	-	A	-	-	-	A	A	-	A	A	A	C	D	-	A	-	A	A		
Carbonic Acid	-	B¹	A	A	A	B¹	A¹	-	-	A¹	A	A²	A	-	A	B²	-	A	-	-	A	A	A	A	A	A	A	B¹	A	A	D	A¹	A	B¹	A	A			
Catsup	B	B	-	A	-	A	A	-	-	A	-	A	A	D	A	-	-	-	-	-	A	C	-	-	C	A	-	A	D	A	C	D	-	A	-	A	A		
Chloracetic Acid	-	D	A	B¹	A²	C¹	D	-	-	-	A	B¹	D	-	C¹	C¹	-	A	-	D	B	B	D	D	D	D	-	D	C²	-	-	B	A¹	A¹	-	-			
Chloric Acid	-	D	D	A	A	-	D	-	-	D	-	A²	A	-	-	-	-	A	-	-	-	-	-	-	-	-	-	-	D	A	-	-	A	C¹	-	-			
Chlorinated Glue	-	-	-	-	-	A	-	-	-	-	-	-	-	D	-	-	-	-	-	-	-	B	-	-	D	C	-	A	-	A	A	D	-	A	-	-	A		
Chlorine Anhydrous Liquid	-	A¹	A	B²	B²	C¹	D	D	-	B¹	D	C¹	A	D	B	B²	D	A	-	C	D	C	C	D	D	D	-	A	D	C	D	C	B	C	B	D	D		
Chlorine, Dry	-	D	A	A²	D	-	D	D	-	B¹	D	A²	A	-	C	B	D	A	-	-	D	D	D	D	D	D	D	A	C¹	A	-	-	B	B	D	-	A		
Chlorine Water	-	D	A	A²	A	A¹	D	D	-	C¹	D	A²	A	-	A¹	B¹	C	A	-	-	B	B	B	D	C	D	B	-	A	D	B	-	-	A	C	A	-		
Chlorobenzene (Mono)	D	A¹	A	D	A¹	C¹	B¹	-	D	D	A	D	A²	D	A¹	C¹	D	B	-	A	D	D	D	D	D	D	D	A	A	B	A	D	B	B	B	A			
Chloroform	D	B¹	A	D	B¹	C¹	B	-	D	D	A	D	A²	A	C¹	C¹	D	A¹	-	A	D	D	D	D	D	D	D	A	B¹	A	D	D	A¹	A	A²	A	A		
Chlorosulfonic Acid	-	D	A	C¹	A²	C¹	D	-	D	D	D	C	D	D	D	D	-	A	-	C	D	D	D	D	D	D	C	C²	C	D	D	A¹	B²	A	C	A			
Chocolate Syrup	-	A	-	-	-	A	A	-	-	A	-	-	A	D	A	-	-	A	-	-	A	-	-	D	A														

CHEMICAL RESISTANCE GUIDE

Ratings – Chemical Effect

- A** No effect – excellent
B Minor effect – good
C Moderate effect – fair
D Severe effect – not recommended

Explanation of footnotes

- 1** Satisfactory to 72°F (22°C)
2 Satisfactory to 120°F (49°C)

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	Cyclac® (ABS)			Delrin® (Acetal)			Carbon/Graphite			CPVC			Kel-F®			Epoxy			Nylon			PEEK			PES			Noryl® PPO			Ryton® PPS			PVC			Kynar® (PVDF)			Phenolic			Polypropylene			Polyethylene			Poly Sulfone			Teflon® TEF			Thermoplastic Polyester			Tygon			Butyl			EPDM			Hypalon®			Natural Rubber			Neoprene®			Nitrile			Silicone			Viton®			Aluminum			Carpenter 20			Cast Bronze			Cast Iron			Hastelloy C			Stainless Steel (316)			Titanium			Ceramic																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
Copper Sulfate 50%	-	D	A	A	-	A	A	C ²	-	-	A	A	A	A ²	A	A	A	B ²	-	A	-	-	A	A	A	B	A	A	A	D	B	C	D	A	B	A	A	-	-	A	-	-	A	-	-	A	-	-	A	-	-																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
Cream	-	A	-	A	-	-	A	A	A	-	A	-	-	-	-	A	A	-	-	-	A	-	-	-	A	-	-	-	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Ratings – Chemical Effect

- A** No effect – excellent
B Minor effect – good
C Moderate effect – fair
D Severe effect – not recommended

Explanation of footnotes

- 1** Satisfactory to 72°F (22°C)
2 Satisfactory to 120°F (49°C)

	PLASTICS																ELASTOMERS						METALS & CERAMICS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	Cyclac® (ABS)		Delrin® (Acetal)		Carbon/Graphite		CPVC		Kel-F®		Epoxy		Nylon		PEEK		PES		Noryl® PPO		Ryton® PPS		PVC		Kynar® (PVDF)		Phenolic		Polypropylene		Polyethylene		Poly Sulfone		Teflon® TEF		Thermoplastic Polyester		Tygon		Butyl		EPDM		Hypalon®		Natural Rubber		Neoprene®		Nitrile		Silicone		Viton®		Aluminum		Carpenter 20		Cast Bronze		Cast Iron		Hastelloy C		Stainless Steel (316)		Titanium		Ceramic																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Hydrochloric Acid 20%	A	C	A	A²	A	A¹	D	A		A	A	A	A²	A	A	A²	A²	A	A	A¹	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A¹	D	C	A																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
Hydrochloric Acid 37%	A	C	A	A²	A	A	D	A		A	A	A	B	A	C	A¹	B²	A	A	-	C	A	A	B	C	C	C	C	A	A	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D

CHEMICAL RESISTANCE GUIDE

Ratings – Chemical Effect

- A** No effect – excellent
B Minor effect – good
C Moderate effect – fair
D Severe effect – not recommended

Explanation of footnotes

- 1** Satisfactory to 72°F (22°C)
2 Satisfactory to 120°F (49°C)

	PLASTICS																	ELASTOMERS					METALS & CERAMICS															
	Cyclac® (ABS)	Delrin® (Acetal)	Carbon/Graphite	CPVC	Kel-F®	Epoxy	Nylon	PEEK	PES	Noryl® PPO	Ryton® PPS	PVC	Kynar® (PVDF)	Phenolic	Polypropylene	Polyethylene	Poly Sulfone	Teflon® TEF	Thermoplastic Polyester	Tygon	Butyl	EPDM	Hypalon®	Natural Rubber	Neoprene®	Nitrile	Silicone	Viton®	Aluminum	Carpenter 20	Cast Bronze	Cast Iron	Hastelloy C	Stainless Steel (316)	Titanium	Ceramic		
Methyl Isobutyl Ketone	-	D	A	-	A	C	A ¹	-	-	D	A	D	D	A	A ¹	B ¹	D	A	-	-	C	C	D	D	D	D	D	D	A ²	A	C ¹	A	A	A ²	A	A		
Methyl Isopropyl Ketone	-	D	-	-	-	C	A	-	-	-	-	-	D	A	A ¹	-	D	-	-	-	B	B	D	D	D	D	D	-	A	A	-	-	A	-	A			
Methyl Methacrylate	-	D	-	-	-	A	-	-	-	-	-	-	D	-	D	-	-	-	-	-	D	D	D	D	D	D	C	D	-	-	-	-	-	-	-	A		
Methylamine	-	-	-	-	-	A	-	-	-	-	-	A	D	-	-	-	-	A	-	D	-	A ¹	-	B	-	C ¹	-	D	-	-	D	-	-	-	-	A		
Methylene Chloride	D	A ¹	A	D	A	A	C ¹	-	D	D	A ¹	D	A ²	A	A ¹	C ¹	D	A	D	A	D	D	D	D	D	D	-	B	A ¹	B	A	A	B	B	B	A		
Milk	B	A	A	A	A	A	A ²	-	A	A ²	-	A ²	A	A	A	A ²	A	A	-	B	A	A	A	A	A	A	A	A	A	A	C	D	A	A ²	A	A		
Molasses	B	A	A	A	A	A	A ¹	-	-	A ²	-	A ²	A	A	A	A	A	A	-	B	A	-	-	A	A	A	-	A	A	A	D	A	A	A	A	A		
Mustard	-	C	A	A	-	A	A ¹	-	-	A	-	B	A	D	A	A	A	A	-	B	-	-	-	B	A	C	-	D	B	A	D	D	A	A	A	A		
Naptha	D	D	A	A	A	A	A ¹	-	-	D	A	C	A	A	A ¹	A	-	A	-	C	D	D	D	D	D	D	B	D	A	A	B	A	B	A	B	A		
Naphthalene	D	D	A	D	A	A	A ¹	-	-	D	A	D	A	A	A	A	-	A	-	C	D	D	D	D	D	D	D	A	B ¹	A	C	A	A	A	A	A		
Nickel Chloride	B	A	A	A	A	A	C ¹	-	A	A ¹	A	A ²	A	A	A	B ²	-	A	-	B	A	A	A	A	B	A	A	A	D	B ¹	D	D	D	B	C	A	A	
Nickel Sulfate	B	A	A	A	A	A	A ¹	-	A	A ¹	A	A ²	A	C	A	B ²	-	A	-	A	A	A	A	B	A	A	A	A	D	B	C	D	B	B	B	A		
Nitrating Acid (<15% H2SO4)	-	-	-	-	-	-	-	-	-	-	C	D	-	-	C	-	-	A	-	D	-	-	-	C	A	-	-	-	D	-	D	A	A	C	A	A		
Nitrating Acid (>15% H2SO4)	-	-	-	-	-	D	D	-	-	-	D	D	-	-	C	-	-	A	-	D	-	-	-	-	C	A	-	-	D	-	D	C	A	C	C	A		
Nitrating Acid (<1% Acid)	-	-	-	-	-	-	D	-	-	-	C	D	-	-	C	-	-	A	-	D	-	-	-	-	C	A	-	-	D	-	D	-	-	A	A	-	A	
Nitrating Acid (<15% HNO2)	-	-	-	-	-	-	D	-	-	-	C	D	-	-	C	-	-	A	-	D	-	-	-	-	C	A	-	-	D	-	D	C	A	D	C	A		
Nitric Acid (5-10%)	B	D	A	A	A ¹	A ¹	D	A	A	A	A ¹	A ¹	A	D	A ²	B ²	B ²	A	-	D	A	B	B	D	D	D	B	A	D	A ¹	D	D	D	A ¹	A	A ¹	C	
Nitric Acid (20%)	B	D	A	A ²	A ¹	B ¹	D	A	B	B ²	A ¹	A ¹	A	D	A ²	C ¹	A ¹	A	-	D	A	B	D	D	D	D	D	A	D	A ¹	D	D	D	A ¹	A	A ¹	D	
Nitric Acid (50%)	C	D	D	A ¹	A	D	D	A	D	B ²	B	B ¹	A ²	D	D	C ¹	B ¹	A	-	D	B	D	D	D	D	D	D	A	C	A ¹	D	D	D	A ¹	A ¹	A ¹	D	
Nitric Acid (Concentrate)	D	D	D	D	A ¹	D	D	C	D	B ¹	B ¹	D	D	D	D	C ¹	D	A	-	D	B	D	D	D	D	D	D	A	A ²	A ²	D	D	B ¹	A ¹	A ¹	D		
Nitrous Acid	-	D	-	A	-	-	-	-	-	-	-	A	-	-	A	-	-	A	-	A	-	A	-	C	D	-	-	A	-	-	A	-	-	-	A	-	A	
Nitrobenzene	D	B	B	D	A ¹	C ¹	B ¹	-	D	D	A	D	A ¹	D	A ²	C ¹	D	A	-	D	D	D	D	D	D	D	D	B	A ¹	A	C	C	D	B	A	A	A	
Oils: Aniline	D	D	-	-	-	A	A	-	-	D	-	D	A	D	A	-	-	A	-	A	B	B	C	D	D	D	D	C	D	A	A	A	B	A	C	A	A	
Anise	-	D	-	-	-	A	-	-	-	-	-	-	-	A	-	-	-	-	-	-	-	-	-	-	-	D	-	-	-	A	A	A	-	-	A	-	A	
Bay	-	D	-	-	-	A	-	-	-	-	-	-	A	A	-	-	-	-	-	-	-	-	-	-	D	-	-	A	-	A	A	-	-	A	-	A		
Bone	-	D	-	-	-	A	-	-	-	-	-	-	A	-	A	-	-	-	-	A	-	-	-	-	D	A	-	A	-	-	A	A	-	-	A	-	A	
Castor	-	A	-	A	-	A	A	-	A	-	-	A	A	A	A	-	-	A	-	A	B	B	A	A	A	A	A	A	-	-	A	A	-	-	A	A	A	
Cinnamon	-	D	-	-	-	A	-	-	-	A	-	-	-	A	-	-	-	-	-	-	-	-	-	-	C	-	-	A	-	-	A	-	-	A	-	A	-	A
Citric	-	D	-	-	-	A	-	-	A	-	-	-	A	A	-	-	-	D	-	D	-	-	-	-	D	-	-	A	A	-	D	D	A	A	-	A	-	A
Clove	-	-	-	-	-	A	-	-	A	-	-	-	-	A	-	-	-	-	-	-	-	-	-	-	C	A	-	A	B	-	A	-	-	A	A	-	A	
Cocoa Nut	-	A	-	A ¹	-	A	-	-	A	-	-	A ¹	A	A	A ¹	-	-	A	-	A	-	C	C	D	C	A	A	A	A	-	A	A	A	-	-	A	-	A
Cod Liver	-	B	-	A ¹	-	A	-	-	-	-	-	A ¹	A	A	A	A ¹	-	-	A	-	-	A	A	B	D	B	A	B	A	A	-	A	-	-	A	A	-	A
Corn	-	D	-	-	-	A	-	-	A	A	-	B	A	-	A ²	C	-	A	-	B	C	C	B	D	D	C	A	A	A	A	-	C	A	A	-	A		
Cotton Seed	-	B ¹	A	A	A ²	A ¹	A	-	A	A	A	B ²	A	A	A	B ²	-	A	-	B	C	C	B	D	D	C	A	A	A	-	A	A	A	A	A	A		
Cresote	-	D	A	-	A	A ¹	D	-	-	D	-	C	A	-	C ¹	C ²	-	A	-	-	D	D	D	D	B	A	D	A	B	A ²	A	A	B	B ²	A	A		
Diesel Fuel (20, 30, 40, 50)	-	D	A	-	A ¹	A ¹	A	-	A	D	A	A ²	A	A	A ¹	C ¹	-	A	-	A	D	D	B	D	B	A	D	A	A	A	A	A	B	A	B	A		
Fuel (1, 2, 3, 5A, 5B, 6)	-	D	A	-	A	A ¹	A ¹	-	A	A ¹	A	A ²	A	A	C ¹	C ¹	-	A	-	A	D	D	B	D	B	A	D	A	C ¹	A	A	A	A	A ¹	A	A	A	
Ginger	-	A	-	-	-	A	-	-	A	-	-	-	A	A	-	-	-	-	-	-	A	A	-	-	A	A	-	A	-	D	D	-	-	A	-	A		
Hydraulic (See Hydraulic Oils)	-	D	-	-	-	A	-	-	-	-	-	-	A	A	-	-	-	A	-	-	-	D	-	-	D	-	-	A	D	A	A	-	-	A	-	A		
Lemon	-	D	-	-	-	A	-	-	-	-	-	-	A	A	-	-	-	A	-	-	-	D	-	-	D	-	-	A	D	A	A	-	-	A	-	A		
Linseed	-	A	A	A	-	A	A ¹	-	-	A ¹	B	A ²	A	A	A	C ¹	-	A	-	A	C	C	C	D	C	A	A	A	B	A	A	-	-	A ¹	A	A	A	
Mineral	-	A	A	A	A	A	A	-	-	A ¹	A	A ¹	A	A	B ¹	B ¹	-	A	-	A	C	D	B	D	B	A	B	A	A	A	A	-	-	A	A	A		
Olive	-	-	A	A	-	A	A ¹	-	A	A ²	-	C	-	A	A	A ¹	-	A ¹	-	B	B	B	B	D	B	A	D	A	A	A	A	-	-	A	A	A	A	
Orange	-	D	-	-	-	A	-	-	-	-	-	-	A	A	-	-	-	C	-	-	-	-	-	-	C	A	D	A	A	A	-	-	A	A	A	A		
Palm	-	D	-	A	-	A	-	-	A	-	-	A	A	A	-	-	-	-	-	-	-	-	-	-	D	A	-	A	-	A	A	A	-	-	A	A	A	
Peanut	-	D	-	A ¹	-	A	-	-	A	-	-	A ¹	A	A	D	-	-	A	-	A	C	C	B	D	B	A	A	A	D	A	A	A	-	-	A	-	A	
Peppermint	-	D	-	-	-	A	-	-	A	-	-	-	A	A	-	-	-	-	-	-	-	-	-	-	D	D	-	A	D	A	A	-	-	A</				

Explanation of footnotes

1 Satisfactory to 72°F (22°C)

2 Satisfactory to 120°F (49°C)

$$= \text{subfactorial}(n) = n! \sum_{k=0}^{\infty} \frac{(-1)^k}{k!} \quad (n \geq 0),$$

Phenol (10%)	-	D	A	A ¹	B	C	D	-	D	D	A	C ¹	A	D	A ²	A ²	-	A	-	C	B	B	C	D	C	D	C	A	B	B	C	D	A	B	A	-	
Phenol (Carbolic Acid)	D	D	A	A ¹	B	C	C	-	D	D	A	C ¹	A	D	A ²	B ¹	-	A	-	B	D	B	D	D	D	D	D	A	B	B	C	D	D	A	B	A	A
Phosphoric Acid (10%)	B	C ¹	A	A	A	C	D	-	-	A	A	B ²	A	D	A	A ¹	A	A	-	D	B	B	B	D	D	B	D	A	C	B	D	D	A ²	B	B	B	
Phosphoric Acid (40%)	C	D	A	A	A	B	D	-	-	A	A	B ²	A ¹	D	A	B ¹	A	A	-	D	C	B	C	D	D	D	C	A	B	B	D	D	A ²	B	C	B	
Phosphoric Acid (crude)	C	D	A	-	A	B	D	-	-	A	A	B ²	A	D	A	B ¹	A	A	-	D	-	B	C	D	D	D	C	A	B	B	D	D	A ²	B	C	C	
Phosphoric Acid Anhydride	-	D	-	-	-	D	-	-	-	D	-	-	D	D	A	-	A ¹	-	-	-	-	-	-	-	-	A	-	-	-	-	A	-	-	D	A	-	
Phosphoric Acid (molten)	D	D	-	-	-	D	-	-	-	D	D	D	D	-	-	-	-	-	D	-	-	-	-	-	-	A	-	-	-	-	A	-	-	D	-	-	
Photographic Developer	B	A	A	A	-	A	-	A	-	-	A	-	A	-	A	A	A	-	A	-	-	-	B	A	A	A	A	A	A	A	A	D	D	-	A	A	A
Phthalic Anhydride	-	-	A	D	-	-	-	-	-	D	A	-	D	-	A	-	-	A	-	B	B	A	-	C	A	B	-	A	A	B	-	A	A	-	-	A	-
Picric Acid	A	A	A	D	A	A	C ¹	-	-	-	A	D	A ¹	D	B ¹	-	-	A	-	D	A	A	A	A	A	A	D	A	A ¹	B	D	A	-	B	B	A	-
Plating Solutions:																																					
Antimony Plating 130°F	-	A	-	A	-	B	D	-	-	A	-	A	A	A	A	-	-	A	-	-	A	-	-	-	A	A	-	A	A	A	A	A	A	A	A	A	A
Arsenic Plating 110°F	-	A	-	A	-	B	A	-	-	-	-	A	A	A	A	-	-	A	-	-	A	-	-	-	A	A	-	A	A	A	A	A	A	A	A	A	C
Brass Plating:																																					
Regular Brass Bath 100°F	-	A	A	A	-	B	A	-	-	A	-	A	B	A	A	B	-	A	-	-	A	-	-	-	A	A	-	A	A	A	A	A	A	A	A	C	
High Speed Brass Bath 110°F	-	A	A	A	-	B	A	-	-	A	-	A	B	A	A	B	-	A	-	-	A	-	-	-	A	A	-	A	A	-	A	A	A	A	A	D	
Bronze Plating:																																					
Cu-Cd Bronze Bath R.T.	-	A	-	A	-	B	A	-	-	A	-	A	A	A	A	-	-	A	-	-	A	A	-	-	A	A	-	A	A	-	A	A	A	A	C		
Cu-Sn Bronze Bath 160°F	-	B	-	D	-	C	A	-	-	A	-	D	A	A	A	-	-	A	-	-	A	A	-	-	A	A	-	A	A	-	A	A	A	A	D	D	
Cu-Zn Bronze Bath 100°F	-	A	-	A	-	B	A	-	-	A	-	A	A	A	A	-	-	A	-	-	A	-	-	-	A	A	-	A	A	-	A	A	A	A	A	C	
Cadmium Plating:																																					
Cyanide Bath 90°F	-	A	-	A	-	B	A	-	-	A	-	A	A	-	A	-	-	A	-	-	A	-	-	-	A	A	-	A	A	-	A	A	A	A	C		
Fluoborate Bath 100°F	-	C	-	A	-	B	D	-	-	A	-	A	A	A	A	-	-	A	-	-	B	-	-	-	C	B	-	A	A	-	A	D	D	A	D	D	
Chromium Plating:																																					
Chromic-Sulfuric Bath 130°F	-	D	-	A	-	C	D	-	-	D	-	A	A	-	A	-	-	A	-	-	A	-	-	-	D	D	-	C	A	-	C	A	-	D	C	A	C
Fluosilicate Bath 95°F	-	D	-	A	-	C	D	-	-	D	-	A	A	-	D	-	-	A	-	-	A	-	-	-	D	D	-	C	A	-	C	C	D	C	C	B	
Fluoride Bath 130°F	-	D	-	A	-	C	D	-	-	D	-	A	A	-	A	-	-	A	-	-	A	-	-	-	D	D	-	C	A	-	D	C	D	C	B		
Black Chrome Bath 115°F	-	D	-	A	-	C	D	-	-	D	-	A	A	-	A	-	-	A	-	-	A	-	-	-	D	C	-	C	A	-	C	A	-	D	C	A	A
Barrel Chrome Bath 95°F	-	D	-	A	-	C	D	-	-	D	-	A	A	-	A	-	-	A	-	-	A	-	-	-	D	D	-	C	A	-	D	C	D	D	C	A	
Copper Plating (Cyanide):																																					
Copper Strike Bath 120°F	-	A	-	A	-	B	A	-	-	A	-	A	A	A	A	-	-	A	-	-	A	-	-	-	A	A	-	A	A	-	A	A	A	-	C		
Rochelle Salt Bath 150°F	-	B	-	D	-	C	A	-	-	A	-	D	A	A	A	-	-	A	-	-	A	-	-	-	B	A	-	A	A	-	A	A	A	D	D		
High Speed Bath 180°F	-	B	-	D	-	C	A	-	-	A	-	D	A	-	A	-	-	A	-	-	A	-	-	-	B	A	-	A	A	-	A	A	A	D	D		
Copper Plating (Acid):																																					
Copper Sulfate Bath R.T.	-	A	-	A	-	D	D	-	-	A	-	A	A	-	A	-	-	A	-	-	A	-	-	-	A	A	-	A	A	-	D	A	A	D	A	A	
Copper Fluoborate Bath 120°F	-	C	-	A	-	D	D	-	-	A	-	A	A	A	A	-	-	A	-	-	B	-	-	-	C	B	-	A	A	-	D	D	D	D	D		
Copper Plating (Misc.):																																					
Copper Pyrophosphate	-	A	-	A	-	B	A	-	-	A	-	A	A	-	A	-	-	A	-	-	A	-	-	-	A	A	-	A	A	-	A	A	A	B			
Copper (Electroless)	-	D	-	A	-	B	A	-	-	A	-	A	A	-	A	-	D	A	-	-	A	-	-	-	D	D	-	A	A	-	-	-	-	-	A	A	
Gold Plating:																																					
Cyanide 150°F	-	-	-	D	-	D	A	-	-	A	-	D	A	-	A	-	-	A	-	-	A	-	-	-	A	A	-	A	-	-	-	-	-	A	A	B	
Neutral 75°F	-	-	-	A	-	A	A	-	-	A	-	A	A	-	A	-	-	A	-	-	A	-	-	-	A	A	-	A	-	-	-	-	-	-	A	C	A
Acid 75°F	-	-	-	A	-	A	A	-	-	A	-	A	A	-	A	-	-	A	-	-	A	-	-	-	A	A	-	A	-	-	-	-	-	-	A	C	A
Indium Sulfamate Plating R.T.	-	-	-	A	-	A	D	-	-	A	-	A	A	-	A	-	-	A	-	-	A	-	-	-	A	A	-	A	-	-	-	-	-	-	A	C	A
Iron Plating:																																					
Ferrous Chloride Bath 190°F	-	-	-	D	-	D	D	-	-	A	-	D	A	A	C	-	-	A	-	-	B	-	-	-	B	D	-	A	-	-	-	-	-	D	D	A	
Ferrous Sulfate Bath 150°F	-	-	-	D	-	D	D	-	-	A	-	D	A	A	-	-	-	A	-	-	A	-	-	-	B	A	-	A	-	-	-	-	-	-	A	C	A
Ferrous Am. Sulfate Bath 150°F	-	-	-	D	-	D	D	-	-	A	-	D	A	A	A	-	-	A	-	-	A	-	-	-	B	A	-	A	-	-	-	-	-	-	A	C	A
Sulfate-Chloride Bath 160°F	-	-	-	D	-	D	D	-	-	A	-	D	A	A	A	-	-	A	-	-	B	-	-	-	C	B	-	A	-	-	-	-	-	-	D	D	A
Fluoborate Bath 145°F	-	-	-	D	-	D	D	-	-	A	-	D	A	-	A	-	-	A	-	-	B	-	-	-	C	B	-	A	-	-	-	-	-	-	B	D	D
Sulfamate 140°F	-	-	-	A	-	A	D	-	-	A	-	A	A	-	A	-	-	A	-	-	A	-	-	-	A	A	-	A	-	-	-	-	-	-	B	D	A
Lead Fluoborate Plating	-	-	-	A	-	A	D	-	-	A	-	A	A	A	A	-	-	A	-	-	B	-	-	-	A	B	-	A	-	-	-	-	-	-	A	C	D
Nickel Plating:																																					
Watts Type 115-160°F	-	-	-	D	-	D	A	-	-	A	-	D	A	-	A	-	-	A	-	-	A	-	-	-	A	A	-	A	-	-	-	-	-	A	C	A	
High Chloride 130-160°F	-	-	-	D	-	D	D	-	-	A	-	D	A	-	A	-	-	A	-	-	A	-	-	-	B	A	-	A	-	-	-	-	-	-	A	C	A
Nickel Plating (cont.):																																					
Fluoborate 100-170°F	-	-	-	A	-	A	D	-	-	A	-	A	A	A	A	-	-	A	-	-	A	-	-	-	A	B	-	A	-	-	-	-	-	-	A	C	D
Sulfamate 100-140°F	-	-	-	A	-	A	A	-	-	A	-	A	A	-	A	-	-	A	-	-	A	-	-	-	A	A	-	A	-	-	-	-	-	-	-	A	C
Electroless Nickel 200°F	-	-	-	D	-	B	D	-	-	D	-	D	A	-	D	-	-	A	-	-	-	-	-	-	D	D	-	A	-	-	-	-	-	-	-	-	A
Rhodium Plating 120°F	-	-	-	A	-	A	D	-	-	A	-	A	A	-	A	-	-	A	-	-	A	-	-	-	B	A	-	A	-	-	-	-	-	-	D	D	A
Silver Plating 80-120°F	-	-	-	A	-	A	A	-	-	A	-	A	A	A	A	-	-	A	-	-	A	A	-	-	A	A	-	A	-	-	-	-	-	-	A	A	B
Tin-Fluoborate Plating 100°F	-	-	-	A	-	A	D	-	-	A	-	A	A	A	A	-	-	A	-	-	B	-	-	-	C	B	-	A	-	-	-	-	-	-	A	C	D
Tin-Lead Plating 100°F	-	-	-	A	-	A	D	-	-	A	-	A	A	-	A	-	-	A	-	-	B	-	-	-	C	B	-	A	-	-	-	-	-	-	A	C	D
Zinc Plating:																																					

No warranty is expressed or implied. For specific recommendations call **Enviro Tech Molded Products, Inc.**

CHEMICAL RESISTANCE GUIDE

Ratings – Chemical Effect

- A** No effect – excellent
B Minor effect – good
C Moderate effect – fair
D Severe effect – not recommended

Explanation of footnotes

- 1** Satisfactory to 72°F (22°C)
2 Satisfactory to 120°F (49°C)

	PLASTICS										ELASTOMERS					METALS & CERAMICS																											
	Cycloc® (ABS)	Delrin® (Acetal)	Carbon/Graphite	CPVC	Kel-F®	Epoxy	Nylon	PEEK	PES	Noryl® PPO	Ryton® PPS	PVC	Kynar® (PVDF)	Phenolic	Polypropylene	Polyethylene	Poly Sulfone	Teflon® TEF	Thermoplastic Polyester	Tygon	Butyl	EPDM	Hypalon®	Natural Rubber	Neoprene®	Nitrile	Silicone	Viton®	Aluminum	Carpenter 20	Cast Bronze	Cast Iron	Hastelloy C	Stainless Steel (316)	Titanium	Ceramic							
Acid Chloride 140°F	-	-	-	A	-	A	D	-	-	-	A	-	A	-	A	-	-	A	-	-	A	-	-	-	A	A	-	A	-	-	-	-	-	D	D	A	A						
Acid Sulfate Bath 150°F	-	-	-	D	-	D	D	-	-	-	A	-	D	A	A	A	-	-	A	-	-	-	-	-	B	A	-	A	-	-	-	-	-	A	C	A	D						
Acid Fluoborate Bath R.T.	-	-	-	A	-	A	D	-	-	-	A	-	A	A	A	A	-	-	A	-	-	B	-	-	C	B	-	A	-	-	-	-	-	A	C	D	D						
Alkaline Cyanide Bath R.T.	-	-	-	A	-	A	A	-	-	-	A	-	A	A	A	A	-	-	A	-	-	A	-	-	A	A	-	A	-	-	-	-	-	A	A	A	D						
Potash	-	B	-	C	-	-	A	A	-	-	A	-	C	A	C	A	B	-	-	-	B	-	-	-	B	D	A	-	A	-	C	A	D	C	B	A	-	A					
Potassium Bicarbonate	C	C	A	A	A	A	A	A	1	-	A	1	A	A	A	A	A	-	A	-	-	A	-	-	B	A	A	-	A	-	D	B	D	A	B	B	A	A					
Potassium Bromide	-	A	A	A	A	A	B	-	-	A	1	A	A	A	-	A	A	-	A	-	-	-	A	-	B	A	A	-	A	-	B	B	C	-	B	B	A	A					
Potassium Carbonate	-	B	A	A	A	A	B	-	-	A	1	A	A	A	A	A	A	-	A	-	B	A	A	-	B	A	A	-	A	-	D	B	D	A	B	B	1	A	A				
Potassium Chlorate	-	B	C	A	A	A	2	A	C	1	-	-	A	1	A	A	A	-	A	-	B	A	A	-	B	A	C	-	A	-	B	B	1	B	-	C	B	1	A	A			
Potassium Chloride	C	A	A	A	A	A	B	1	-	A	1	A	A	A	A	A	A	-	A	-	A	A	A	A	A	A	A	A	A	-	D	A	1	D	A	B	B	1	A	A			
Potassium Chromate	-	C	A	A	-	C	A	-	-	A	2	-	A	A	D	A	A	-	A	1	-	-	A	A	-	A	A	-	A	-	B	1	B	1	A	A	A	B	1	-	D		
Potassium Cyanide Solutions	-	C	A	A	A	A	A	1	-	A	1	A	A	A	D	A	A	-	A	-	-	A	A	A	A	A	A	A	-	D	B	D	A	B	B	1	A	A	-	A			
Potassium Dichromate	-	C	A	A	A	A	C	D	-	-	A	1	A	A	A	D	A	A	-	A	-	-	A	A	A	A	A	A	-	B	B	1	A	A	B	B	A	-	A				
Potassium Ferrocyanide	-	-	A	B	A	A	B	1	-	-	A	-	B	A	-	A	A	-	A	-	-	A	A	-	B	-	A	-	A	-	B	1	B	1	A	-	B	B	A	-			
Potassium Hydroxide (Caustic Potash)	C	D	C	A	1	B	A	C	1	-	A	A	1	A	C	A	A	B	A	-	B	A	A	A	B	B	B	C	D	D	B	1	D	C	B	1	B	D	D				
Potassium Nitrate	-	B	A	A	-	A	B	1	-	-	A	1	A	A	A	-	A	B	A	-	C	A	A	A	A	A	A	A	-	B	B	1	B	-	B	1	B	A	A				
Potassium Permanganate	C	C	A	A	1	-	A	D	-	-	A	A	A	1	A	A	A	-	A	-	-	B	A	-	B	A	C	-	A	-	B	1	B	C	A	A	A	1	B	1	A	A	
Potassium Sulfate	-	B	A	A	A	A	1	A	B	-	-	A	A	A	2	A	A	A	A	2	-	A	-	A	A	A	A	A	D	A	1	C	A	-	B	1	B	1	A	A			
Potassium Sulfide	-	-	A	A	2	A	-	B	-	-	A	-	A	2	A	-	A	A	2	-	A	-	-	A	A	B	B	A	A	-	A	-	-	-	-	A	1	A	-	-			
Propane (Liquified)	-	A	A	A	1	A	A	A	1	-	B	A	1	-	A	-	B	1	C	1	-	A	-	-	D	D	B	D	B	A	A	2	A	-	A	A	-	A	-	A			
Propylene Glycol	B	B	-	C	1	-	C	-	-	-	-	C	1	A	2	A	A	2	B	2	B	A	-	-	-	-	-	-	C	A	-	A	A	2	A	A	B	B	A	A			
Pyridine	-	A	A	D	A	1	A	A	-	D	B	A	D	D	D	A	2	B	1	D	A	-	D	B	B	D	D	D	D	D	D	D	D	D	B	A	D	A	B	A			
Progallic Acid	-	D	A	A	A	A	A	-	-	-	-	-	A	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	B	B	1	B	-	B	2	A	A				
Rosins	-	B	A	C	1	A	A	A	1	-	-	-	C	1	-	-	A	2	B	1	-	-	-	-	-	-	-	-	A	-	B	1	B	B	-	-	A	1	-	A			
Rum	-	A	-	A	-	-	A	A	-	-	-	A	-	A	A	A	-	-	-	-	-	-	-	-	-	A	A	-	A	-	-	A	-	-	-	A	-	A	-	A			
Rust Inhibitors	-	A	-	-	-	-	A	-	-	-	-	-	-	A	B	A	-	-	-	-	-	-	-	-	-	C	A	-	A	-	-	A	B	C	-	-	A	-	A	-	A		
Salad Dressings	-	A	-	-	-	-	A	A	-	-	-	-	-	A	-	A	-	-	-	-	-	-	-	-	-	-	A	-	A	-	B	-	B	D	-	-	A	-	A	-	A		
Sea Water	-	A	A	A	A	A	A	A	2	A	A	1	A	A	2	A	A	A	A	2	A	A	A	-	A	A	A	A	A	-	B	A	A	-	-	A	A	A	-	A	A	-	A
Shellac (Bleached)	-	A	A	-	-	-	A	A	1	-	-	-	-	-	-	A	A	1	-	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	A	-	A		
Shellac (Orange)	-	A	A	-	-	-	A	A	1	-	-	-	-	-	-	A	A	1	-	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	A	-	A	
Silicone	-	A	A	A	-	-	A	A	1	-	A	A	1	A	A	D	A	-	-	A	-	-	-	-	A	A	A	C	A	-	A	-	A	-	-	-	-	A	-	A	-	A	
Silver Bromide	-	C	-	-	-	-	A	A	-	-	-	-	-	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Silver Nitrate	-	A	A	A	1	A	A	A	1	-	A	A	A	1	A	A	A	B	2	A	A	-	B	A	A	A	A	A	B	A	A	D	B	D	D	A	B	A	A	-	A		
Soap Solutions	-	A	A	A	-	-	A	A	1	-	A	A	1	A	A	A	A	C	2	-	A	-	B	A	A	A	A	B	B	A	A	C	A	C	A	-	-	A	A	-	A		
Soda Ash (see Sodium Carbonate)	-	B	A	A	A	A	A	B	1	-	-	A	1	A	B	1	-	A	A	B	2	-	A	-	-	A	A	D	A	B	B	D	D	B	B	A	-	-	A	B	A	A	
Sodium Acetate	-	B	A	A	A	A	A	B	1	-	-	A	1	A	B	1	-	A	-	A	B	2	-	-	A	A	D	A	B	B	D	D	B	B	A	-	-	A	B	A	A		
Sodium Aluminate	-	B	A	A	-	-	A	A	1	-	-	A	A	-	-	-	-	-	-	-	-	-	-	-	A	A	-	B	A	A	-	A	B	-	-	B	A	-	-	A			
Sodium Bicarbonate	B	A	A	A	2	A	A	A	-	-	A	A	A	2	A	A	A	A	2	B	A	-	B	A	A	A	A	A	A	-	D	A	A	C	B	1	B	A	2	A			
Sodium Bisulfate	C	B	A	A	2	A	2	A	A	1	-	A	1	A	2	A	A	A	2	-	A	-	B	A	A	-	A	-	C	B	-	D	A	2	C	D	B	2	B	1	A		
Sodium Bisulfite	B	B	A	A	2	-	A	B	-	-	A	1	A	A	2	A	D	A	A	2	-	A	-	B	A	A	A	A	A	-	D	B	1	C	D	B	B	1	A	-	A		
Sodium Borate	-	-	A	A	2	-	A	A	1	-	-	A	1	A	A	2	A	-	A	2	A	-	-	-	A	A	A	A	A	-	C	A	A	-	-	A	B	2	A	-	-		
Sodium Carbonate	C	A	1	A	A	2	A	C	1	B	1	-	-	A	A	A	2	A	-	A	B	2	B	A	-	B	A	A	A	-	D	A	2	B	A	A	A	1	A	-	A		
Sodium Chlorate	-	A	C	A	1	-	A	D	-	-	-	A	1	A	A	-	A	B	2	-	A	-	B	A	A	-	A	C	-	A	C	1	B	1	B	-	B	1	A	A			
Sodium Chloride	B	A	1	A	A	2	A	A	B	-	-	A	A	A	2	A	A	A	A	2	-	A	-	B	A	A	A	A	A	-	C	B	C	A	-	-	A	C	A	-	A		
Sodium Chromate	-	D	A	-	-	A	C	D	-	-	-	A	A	-	A	D	-	-	-	-	-	-	-	-	-	-	-	-	-	B	B	A	A	A	B	1	-	B	-	B			
Sodium Cyanide	-	A	A	A	2	A	A	A	1	-	-	A	1	A	A	A	A	2	-	A	-	-	-	-	-	A	A	A	A	-	D	A	D	A	A	-	-	A	1	A	-	A	
Sodium Fluoride	-	-	-	A	2	-	A</																																				

CHEMICAL RESISTANCE GUIDE

Ratings – Chemical Effect

A No effect – excellent

B Minor effect – good

C Moderate effect – fair

D Severe effect – not recommended

Explanation of footnotes

1 Satisfactory to 72°F (22°C)

2 Satisfactory to 120°F (49°C)

	PLASTICS														ELASTOMERS						METALS & CERAMICS																									
	Cyclac® (ABS)			Delrin® (Acetal)			Carbon/Graphite			CPVC	Kel-F®	Epoxy	Nylon	PEEK	PES	Noryl® PPO	Ryton® PPS	PVC	Kynar® (PVDF)	Phenolic	Polypropylene	Polyethylene	Poly Sulfone	Teflon® TEF	Thermoplastic Polyester	Tygon	Butyl/EPDM	Hypalon®	Natural Rubber	Neoprene®	Nitrile	Silicone	Viton®	Aluminum	Carpenter 20	Cast Bronze	Cast Iron	Hastelloy C	Stainless Steel (316)	Titanium	Ceramic					
Sodium Tetraborate	-	B	A	A	-	A	A	-	-	A	A	-	-	-	-	A	-	A²	-	-	A²	-	A	-	-	A	-	A	-	-	A	B	A	A	C	A	-	-	-	A²	A²	-	A			
Sodium Thiosulfate (hypo)	-	C¹	A	A²	-	A	A	B	-	-	A	A	-	-	-	A	A	A²	A	A	A²	A¹	-	A	-	-	A	A	A	B	A	B	A	A	A	A²	D	C	A²	A²	-	A				
Sorghum	-	A	-	-	-	A	A	-	-	-	A	A	-	-	-	-	-	-	A	D	-	-	-	-	-	-	A	-	-	-	A	A	-	A	-	A	D	A	-	A	-	A				
Soy Sauce	-	A	-	-	-	A	A	-	-	-	A	A	-	-	-	A	-	-	A	D	-	-	-	-	-	-	A	-	-	D	A	A	-	A	A	A	D	-	A	-	A					
Stannic Chloride	-	C	A	A²	-	A	A	B¹	-	-	A¹	A	A²	-	-	A¹	A	A²	A	-	A	A²	-	A	-	-	A	A	D	A	D	A	B	A	D	A	D	D	D	B	D	A	-	A		
Stannic Fluoroborate	-	C	-	-	-	A	-	-	-	-	A	-	-	-	-	A	-	-	A	-	A	-	-	-	-	-	-	-	-	-	A	A	-	A	-	D	D	D	D	A	-	A				
Stannous Chloride	-	-	-	A²	-	A	A	C¹	-	-	A²	A¹	A¹	-	-	A²	A¹	A¹	A	-	A	B²	-	A	-	A	A	A	A	A	A	A	B	A	D	A¹	D	-	B	A²	A	-	A			
Starch	-	A	A	A	-	A	A	A¹	-	-	A²	-	A	-	-	A²	-	A	A	A²	B	-	A	-	-	A	A	-	-	A	C	-	A	-	A	-	C	-	A	-	A					
Stearic Acid	-	A	A	B²	-	B	A²	-	-	A	-	B²	-	-	-	A	-	B²	A	D	A²	B¹	-	A	-	A	-	B	B	B	B	B	B	A	-	B	B	C	C	B	A	A	A			
Stoddard Solvent	B	A	A	C¹	-	A	A	B	-	-	D	A	C¹	-	-	D	A	C¹	A	D	C	C²	-	A	-	-	D	D	D	D	D	B	A	D	A	A	A	A	A	A	A	A	A			
Styrene	-	A	A	D	-	-	A	A¹	-	-	A	-	D	-	-	A	-	D	A	D	-	-	-	A	-	-	D	D	D	D	D	D	D	B	A	A	-	D	A	-	A					
Sugar (Liquids)	B	A	A	-	-	A	A¹	-	-	A²	-	-	-	-	-	A²	-	-	A	-	A	-	-	A	-	B	A	A	B	A	B	A	A	A	A	A	A	-	A	-	A					
Sulfate (Liquors)	-	D	A	B	-	A	B¹	-	-	-	-	B	-	-	-	-	B	A	D	A	A²	-	A	A	-	-	B	B	B	B	B	B	D	A	D	B	D	D	B	B	-	A				
Sulfur Chloride	-	D	D	C¹	-	A	C	A¹	-	-	A	-	C¹	-	-	A	-	C¹	A¹	-	A¹	C¹	-	A	-	C	D	D	D	D	D	D	C	A	D	B	D	D	A	D	B	C				
Sulfur Dioxide	D	B	A	A²	-	A	A¹	C¹	-	-	A	-	A¹	-	-	A	-	A¹	A	A	C¹	B¹	-	A	-	C	B	A	C	D	B	D	A	B	B	B	-	C	A¹	D	B					
Sulfur Dioxide (Dry)	-	B	A	A²	-	A	A¹	B¹	-	-	A	A	A²	-	-	A	A	A²	A	A	A¹	A¹	B	A	-	C	B	A	D	B	D	D	A	B	B	A	A	B	A	A	A	A				
Sulfur Trioxide (Dry)	-	D	D	A	-	A	A¹	-	-	D	-	A¹	-	-	D	-	A¹	D	D	-	C¹	B	A	-	B	B	B	D	B	B	B	D	B	D	A	A	B	B	-	B	A	D	A			
Sulfuric Acid (<10%)	B	D	A¹	A	-	A	A¹	C¹	A	-	A	A	A¹	-	-	A	A	A¹	A	D	A²	A¹	A	A	B	A	A	B	B	B	A	C	B	D	D	A	D	B	D	D	B¹	B	D	A		
Sulfuric Acid (10-75%)	B	D	A¹	A	-	A	A¹	D	A	B	A	A	A¹	-	-	A	A	A¹	A	D	A¹	A¹	A	A	B	-	B	B	C	D	D	D	A	D	B	D	D	A	D	B	D	D	B¹	D	D	A
Sulfuric Acid (75-100%)	-	-	C¹	C	-	A	C¹	D	D	C	A	A¹	D	-	-	C	A	A¹	D	A	D	C¹	B¹	C	A	-	D	B	B	D	D	D	D	D	A	D	B	D	D	D	B¹	D	D	D	A	
Sulfuric Acid (Hot Conc)	-	-	D	D	-	A	D	D	D	D	D	D	D	-	-	D	D	D	A²	D	D	D	D	D	-	D	D	D	D	D	D	D	D	A	D	B	D	D	D	D	C	D	-			
Sulfuric Acid (Cold Conc)	-	-	D	D	-	A	D	D	D	D	A	A¹	D	-	-	D	A	A¹	D	A	D	A²	C	B	A	-	D	B	B	B	D	D	D	D	A	B	B	D	D	A¹	B	D	-			
Sulfurous Acid	-	C	A	A²	-	A	A	D	-	-	D	A	A	A²	-	D	A	A²	A	-	A	B²	-	A	-	B	B	B	A	B	-	B	B	D	A	B¹	B	D	D	B	B	A	A			
Sulfuryl Chloride	-	A	-	-	-	A	-	-	-	-	-	-	-	-	-	-	-	-	D	-	-	-	-	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A				
Tallow	-	A	A	-	-	A	A¹	-	-	A	-	-	-	-	-	A	-	-	A	-	A²	C	-	A	-	-	-	-	-	-	-	A	-	A	A	-	-	-	-	A	-	A				
Tannic Acid	-	B	A	A¹	-	A	A	C¹	-	-	A²	-	A¹	-	-	A	A¹	A¹	A	-	A	B²	-	A	-	B	A	A	B	A	B	A	B	A	C	B	A	A	C	B¹	A	A	A			
Tanning Liquors	-	B	A	A¹	-	A	A¹	-	-	A²	-	A¹	-	-	-	A²	-	A¹	A	C	A¹	A¹	-	A	-	B	A	B	-	-	-	A	A	-	A	A²	A	-	B	A²	A	A				
Tartaric Acid	-	B	A	A¹	-	A²	A	B²	-	-	A	A¹	A	A¹	-	A	A¹	A	A¹	A	A	A	A¹	A	A	-	B	B	B	A	A	B	A	A	A	B¹	B¹	A	C	-	B	C²	A¹	A		
Tetrachloroethane	-	A	A	C	-	A	A	-	-	D	-	C	-	-	-	D	-	C	A	-	C	-	-	D	A	-	-	D	-	D	-	D	-	A	C	-	-	-	-	A	A	A				
Tetrachlorethylene	-	A	A	D	-	A	-	A¹	-	-	D	-	D	-	-	D	-	D	A	-	D	B	-	D	A	-	-	D	D	D	D	D	D	-	A	-	-	-	-	A	-	-				
Tetrahydrofuran	-	A	A	D	-	A¹	A	B	-	D	D	A	D	-	-	D	-	D	D	-	C²	C¹	D	A	-	-	B	B	D	D	D	D	D	-	D	-	D	-	A	D	-	A	B	A		
Toluene (Toluol)	D	C¹	A	D	-	B²	B¹	A¹	A	D	D	A	D	-	-	D	D	A	D	A²	A	C¹	C¹	D	A	A	D	D	D	D	D	D	D	A	A	A	A	A	A	A	A	A	A			
Tomato Juice	B	B	A	-	-	A	A	A¹	-	-	A	A	A	-	-	A	A	A	A	A	-	A¹	A	A	-	-	A	-	-	-	-	A	A	-	-	A	A	C	-	-	A	-	A			
Trichloroethane	-	A	A	-	-	A	A	A¹	-	-	D	-	C	-	-	D	-	C	A	D	C	-	C	A	-	-	D	D	D	D	D	D	D	A	C	A	A	A	A	A	A	A	A			
Trichlorethylene	D	B	A	D	-	A	C¹	B¹	A	C	D	A¹	D	-	-	C	D	A¹	D	A	A	C¹	C¹	D	A	-	-	C	D	D	D	D	D	C	D	A	A¹	B	A	C	B	B	A	A		
Trichloropropane	D	A	-	-	-	A	A	-	-	-	D	-	-	-	-	D	-	-	A	D	-	-	D	A¹	-	-	-	-	-	-	-	A	A	-	A	-	A	A	A	A	A	A	-	A		
Tricresylphosphate	-	C	A	D	-	A	A²	-	-	A	-	D	-	-	-	D	-	D	D	-	A¹	B¹	-	A	-	-	A	A	D	D	D	D	C	B	D	A²	A	-	A	A²	B	A				
Triethylamine	-	D	A	A	-	A	A	A¹	-	-	B	-	A	-	-	B	-	A	A²	-	D	-	-	-	-	-	-	-	-	-	-	B	A	-	A	-	-	A	-	-	A	-	A			
Turpentine	-	A²	A	A	-	A	B	A¹	-	-	A	A¹	A	B¹	-	A	A¹	A	B¹	A	-	B¹	C¹	C	A	-	B	D	D	D	D	D	A	D	A	A	C	-	-	B	A	B	A			
Urine	-	A	A	A	-	A	A¹	-	-	A²	-	A	-	-	-	A²	-	A	A	A	A²	-	A¹	-	-	-	A¹	A¹	-	-	-	D	A¹	-	A¹	B	A	C	A	-	A	-	A			
Varnish	-	A	A	-	-	A	A	C¹	-	-	A	D	-	D	-	A	-	D	A	A	A	C¹	-	A	-	-	-	D	D	D	D	D	B	D	A	A	-	A	C	-	-	A	-	A		
Vegetable Juice	-	A	-	-	-	A	A	-	-	A	A	-	-	-	-	A	-	-	A	A	A	-	-	-	A	-	C	-	-	D	C	C	-	A	A	C	D	-	C	-	A	-	A			
Vinegar	B	B	A	A	-	A	A	C	-	-	A	A¹	A	A²	-	A	-	A	A²	A	-	A	B²	A	A	B	A	A	A	B	B	B	A	A	B	A	C	C	A	A	A	A	A			
Water, Acid, Mine	B	A¹	A	A	-	A	A	B¹	A	-	A	-	A	A²	-	A	-	A	A²	A	-	A	A²	-	B	-	A	A	-	B	C	A	B	A	C	A	C	C	A	A	A	A	A	A		
Water, Distilled	A	C	A	A	-	A	A	A¹	A	-	A	A	A	A²	-	A	A	A	A²	A	A	A	A²	A	A	B	A	A	A	-	A	A	-	A	A	A	D	D	A	A	A	A	A	A		
Water, Fresh	A	A¹	A	A	-	A	A	A¹	A	-	A	A	A	A²	-	A	A	A	A²	A	A	A	A²	A	A	B	A	A	-	A	A	A	B	A	B	A	A¹	A	A	A	A	A	A	A		
Water, Salt	-	A	A	A	-	A	A	A²	-	-	A	A	A	A²	-	A	A	A	A²	A	A	A	A²	A	A	A	B	A	A	-	A	A	-	A	B	A	D	A	A	B	A	-	A			
Weed Killers	-	A	-	-	-	A	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	C	A	-	A	C	-	C	-	-	A	-	A			
Whey	-	A	-	-	-	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-	-	-	-	A	-	A	-	-	-	A	-	A	-	A			
Whiskey & Wines	-	A	A	A²	-	A	B	A¹	-	-	A	A²	-	A²	-	A	A	A	C	A	A	C	-	A	A	C	A	A	A	A	A	A	A	A	A	C¹	A	C	D	-	-	A	A	A		
White Liquor (Pulp Mill)	-	D	A	-	-	A	A¹	-	-	A	A¹	-	A²	-	-	A	A¹	A²	A²	A¹	A	A²	A²	-	A	-	-	-	-	-	-	-	A	A	-	A	-	A	D	C	A	A	-	A		
White Water (Paper Mill)	-	B	-	-	-	A	A	-	-	-	A	D	-	A	-	-	-	-	A	-	A	-	-	-	-	-	-	-	-	-	-</															

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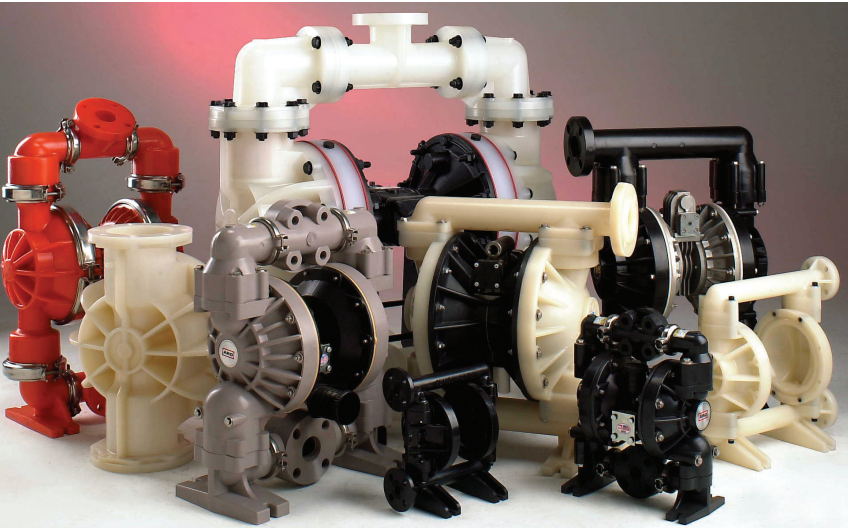
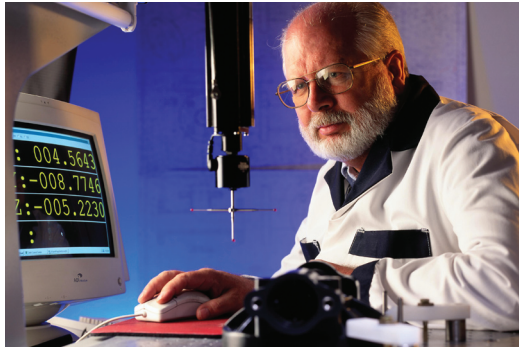
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