Beständigkeitstabelle

ACHTUNG: Diese Beständigkeitstabelle dient nur als Hinweis. Bitte kontaktieren Sie Ihren Zulieferer für die Eignung Ihrer Pumpe für eine bestimmte Flüssigkeit vor der Installation oder Inbetriebnahme.

BEWERTUNG CHEMISCHER EFFEKTE
A= Kein Effekt - hervorragend
B= Minimaler Effekt - gut
C= Moderater Effekt - angemessen
D= Schwerer Effekt - ungeeignet
– = Keine Testdaten vorhanden

	13 003 001	13 003 001	13 003 001		13 003 002	13 003 002	13 003 002	13 003 002		13 005	13 005		13 064 001	13 064 001	13 064 001	13 064 001		13 064	13 064	13 064	13 064		13 003	13 003	13 003
Fluids	**Polypropylene**	**Polyethylene**	**304 Stainless Steel**		**PPS**	**316 Stainless Steel**	**PTFE**	**PVDF**		**304 Stainless Steel**	**PTFE**		**PPS**	**304 Stainless Steel**	**PTFE**	**PVDF**		**Polypropylene**	**PVDF**	**PTFE**	**Phenolic**		**Polypropylene**	**Polyethylene**	**Steel**
Acetaldehyde5	B	C	A		A	A	A	–		A	A		A	A	A	–		B	–	A	A		B	C	–
Acetamide	–	–	B		–	A	–	–		B	–		–	B	–	–		–	–	–	-		–	–	–
Acetate Solvent2	D	B	B		–	A	A	–		B	A		–	B	A	–		D	–	A	-		D	B	–
Acetic Acid, Glacia1	B	B	B		A	A	A	–		B	A		A	B	A	–		B	–	A	-		B	B	D
Acetic Acid 20%	A	–	B		A	A	A	A		B	A		A	B	A	A		A	A	A	-		A	–	–
Acetic Acid 80%	B	–	B		–	A	A	A		B	A		–	B	A	A		B	A	A	-		B	–	–
Acetic Acid	A	B	B		A	A	A	B		B	A		A	B	A	B		A	B	A	-		A	B	D
Acetic Anhydride	A	A	A		A	A	A	D		A	A		A	A	A	D		A	D	A	A		A	A	–
Acetone6	B	C	A		A	A	A	D		A	A		A	A	A	D		B	D	A	-		B	C	A
Acetyl Chloride	–	–	C		A	A	A	–		C	A		A	C	A	–		–	–	A	-		–	–	–
Acetylene2	D	–	A		A	A	–	–		A	–		A	A	–	–		D	–	–	A		D	–	–
Acrylonitrile	B	–	A		A	C	–	–		A	–		A	A	–	–		B	–	–	-		B	–	C
Alcohol, Amyl	B	B	A		A	A	A	A		A	A		A	A	A	A		B	A	A	A		B	B	C

Beständigkeitstabelle

Fluids	13 003 001 Polypropylene	13 003 001 Polyethylene	13 003 001 304 Stainless Steel		13 003 002 PPS	13 003 002 316 Stainless Steel	13 003 002 PTFE	13 003 002 PVDF		13 005 304 Stainless Steel	13 005 PTFE		13 064 001 PPS	13 064 001 304 Stainless Steel	13 064 001 PTFE	13 064 001 PVDF		13 064 Polypropylene	13 064 PVDF	13 064 PTFE	13 064 Phenolic		13 003 Polypropylene	13 003 Polyethylene	13 003 Steel
Alcohol, Benzyl	A	D	A		–	A	–	–		A	–		–	A	–	–		A	–	–	A		A	D	–
Alcohol, Butyl	B	B	A		A	A	A	A		A	A		A	A	A	A		B	A	A	A		B	B	C
Alcohol, Diacetone2	D	–	A		–	A	–	–		A	–		–	A	–	–		D	–	–	A		D	–	–
Alcohol, Ethyl	A	B	A		–	A	A	–		A	A		–	A	A	–		A	–	A	A		A	B	B
Alcohol, Hexyl	A	–	A		–	A	–	–		A	–		–	A	–	–		A	–	–	A		A	–	–
Alcohol, Isobutyl	A	–	A		–	A	–	–		A	–		–	A	–	–		A	–	–	C		A	–	–
Alcohol, Isopropyl	A	–	A		–	A	–	–		A	–		–	A	–	–		A	–	–	A		A	–	C
Alcohol, Methyl6	A	B	A		–	A	A	–		A	A		–	A	A	–		A	–	A	A		A	B	A
Alcohol, Octyl	–	–	A		–	A	–	–		A	–		–	A	–	–		–	–	–	A		–	–	–
Alcohol, Propyl	A	–	A		–	A	A	B		A	A		–	A	A	B		A	B	A	C		A	–	–
Aluminum Chloride 20%	A	B	D		A	C	–	–		D	–		A	D	–	–		A	–	–	D		A	B	D
Aluminum Chloride	A	–	D		A	C	A	A		D	A		A	D	A	A		A	A	A	D		A	–	D
Aluminum Fluoride	A	B	D		–	C	A	A		D	A		–	D	A	A		A	A	A			A	B	–
Aluminum Hydroxide6	A	–	A		–	A	A	–		A	A		–	A	A	–		A	–	A	A		A	–	D
Aluminum Potassium Sulfate (Alum), 10%	–	A	A		–	–	A	–		A	A		–	A	A	–		–	–	A	-		–	A	D
Aluminum Potassium Sulfate (Alum), 100%	A	B	D		–	A	A	–		D	A		–	D	A	–		A	–	A	-		A	B	–
Aluminum Sulfate	A	B	C		A	C	A	A		C	A		A	C	A	A		A	A	A	A		A	B	D
Amines	–	–	A		–	A	A	–		A	A		–	A	A	–		–	–	A	-		–	–	–
Ammonia 10%	A	–	–		A	A	A	D		–	A		A	–	A	D		A	D	A	-		A	–	–

Beständigkeitstabelle

Fluids	13 003 001 Polypropylene	13 003 001 Polyethylene	13 003 001 304 Stainless Steel		13 003 002 PPS	13 003 002 316 Stainless Steel	13 003 002 PTFE	13 003 002 PVDF		13 005 304 Stainless Steel	13 005 PTFE		13 064 001 PPS	13 064 001 304 Stainless Steel	13 064 001 PTFE	13 064 001 PVDF		13 064 Polypropylene	13 064 PVDF	13 064 PTFE	13 064 Phenolic		13 003 Polypropylene	13 003 Polyethylene	13 003 Steel
Ammonia, Anhydrous	A	B	B		B	A	A	D		B	A		B	B	A	D		A	D	A	A		A	B	D
Ammonia, Liquids	A	D	A		–	A	A	–		A	A		–	A	A	–		A	–	A	A		A	D	–
Ammonia, Nitrate	A	–	A		–	A	–	–		A	–		–	A	–	–		A	–	–	A		A	–	–
Ammonium Bifluoride	A	–	C		–	A	–	–		C	–		–	C	–	–		A	–	–	A		A	–	–
Ammonium Carbonate	A	–	A		–	A	A	–		A	A		–	A	A	–		A	–	A	D		A	–	C
Ammonium Casenite	–	–	–		–	A	–	–		–	–		–	–	–	–		–	–	–	-		–	–	–
Ammonium Chloride	A	B	A		A	C	A	A		A	A		A	A	A	A		A	A	A	A		A	B	D
Ammonium Hydroxide	A	B	A		A	A	A	–		A	A		A	A	A	–		A	–	A	A		A	B	–
Ammonium Nitrate	A	B	A		A	A	A	–		A	A		A	A	A	–		A	–	A	C		A	B	–
Ammonium Oxalate	–	–	A		–	A	–	–		A	–		–	A	–	–		–	–	–	-		–	–	–
Ammonium Persulfate	A	–	A		–	A	A	D		A	A		–	A	A	D		A	D	A	C		A	–	D
Ammonium Phosphate,Dibasic	A	B	A		–	A	A	–		A	A		–	A	A	–		A	–	A	A		A	B	–
Ammonium Phosphate,Monobasic	A	B	A		–	A	A	–		A	A		–	A	A	–		A	–	A	A		A	B	–
Ammonium Phosphate,Tribasic	A	B	A		–	A	A	–		A	A		–	A	A	–		A	–	A	A		A	B	C
Ammonium Sulfate	A	B	D		A	B	A	A		D	A		A	D	A	A		A	A	A	A		A	B	C
Ammonium Thio-Sulfate	–	–	–		–	A	–	–		–	–		–	–	–	–		–	–	–	A		–	–	D
Amyl-Acetate	D	D	A		A	A	A	C		A	A		A	A	A	C		D	C	A	-		D	D	–
Amyl Alcohol	A	B	A		–	A	A	A		A	A		–	A	A	A		A	A	A	A		A	B	–
Amyl Chloride	D	D	C		–	B	A	A		C	A		–	C	A	A		D	A	A	-		D	D	–

Beständigkeitstabelle

Fluids	13 003 001 Polypropylene	13 003 001 Polyethylene	13 003 001 304 Stainless Steel	13 003 002 PPS	13 003 002 316 Stainless Steel	13 003 002 PTFE	13 003 002 PVDF	13 005 304 Stainless Steel	13 005 PTFE	13 064 001 PPS	13 064 001 304 Stainless Steel	13 064 001 PTFE	13 064 001 PVDF	13 064 Polypropylene	13 064 PVDF	13 064 PTFE	13 064 Phenolic	13 003 Polypropylene	13 003 Polyethylene	13 003 Steel
Aniline	B	C	A	A	A	A	C	A	A	A	A	A	C	B	C	A	-	B	C	–
Antifreeze	A	B	A	A	A	A	–	A	A	A	A	A	–	A	–	A	B	A	B	B
Antimony Trichloride	–	A	D	–	D	A	–	D	A	–	D	A	–	–	–	A	-	–	A	–
Aqua Regia (80%,HCL,20%,HNO)	C	D	D	–	D	A	C	D	A	–	D	A	C	C	C	A	D	C	D	–
Arochlor 1248	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	-	–	–	–
Aromatic Hydrocarbons	–	C	–	–	A	–	–	–	–	–	–	–	–	–	–	–	A	–	C	–
Arsenic Acid	A	B	A	–	A	A	A	A	A	–	A	A	A	A	A	A	A	A	B	D
Asphalt	A	–	B	A	A	–	–	B	–	A	B	–	–	A	–	–	D	A	–	C
Barium Carbonate	A	B	A	–	A	A	–	A	A	–	A	A	–	A	–	A	-	A	B	–
Barium Chloride	A	B	D	A	A	A	A	D	A	A	D	A	A	A	A	A	A	A	B	–
Barium Cyanide	–	B	–	–	A	–	–	–	–	–	–	–	–	–	–	–	-	–	B	–
Barium Hydroxide	A	B	C	A	A	A	A	C	A	A	C	A	A	A	A	A	A	A	B	C
Barium Nitrate	–	–	A	–	A	–	–	A	–	–	A	–	–	–	–	–	D	–	–	–
Barium Sulfate	A	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	-	A	B	C
Barium Sulfide	A	B	A	–	A	A	–	A	A	–	A	A	–	A	–	A	-	A	B	C
Beer2	D	B	A	–	A	A	A	A	A	–	A	A	A	D	A	A	A	D	B	D
Beet Sugar Liquids	A	–	A	–	A	A	–	A	A	–	A	A	–	A	–	A	A	A	–	A
Benzaldehyde3	D	D	A	A	A	A	C	A	A	A	A	A	C	D	C	A	-	D	D	–
Benzene2	D	D	A	A	A	A	B	A	A	A	A	A	B	D	B	A	C	D	D	–

Beständigkeitstabelle

Fluids	13 003 001 Polypropylene	13 003 001 Polyethylene	13 003 001 304 Stainless Steel		13 003 002 PPS	13 003 002 316 Stainless Steel	13 003 002 PTFE	13 003 002 PVDF		13 005 304 Stainless Steel	13 005 PTFE		13 064 001 PPS	13 064 001 304 Stainless Steel	13 064 001 PTFE	13 064 001 PVDF		13 064 Polypropylene	13 064 PVDF	13 064 PTFE	13 064 Phenolic		13 003 Polypropylene	13 003 Polyethylene	13 003 Steel
Benzoic Acid2	D	B	A		–	A	A	A		A	A		–	A	A	A		D	A	A	C		D	B	D
Benzol	A	–	A		–	A	A	–		A	A		–	A	A	–		A	–	A	A		A	–	–
Borax (Sodium Borate)	A	B	A		A	A	A	A		A	A		A	A	A	A		A	A	A	D		A	B	–
Boric Acid	A	B	A		–	A	A	A		A	A		–	A	A	A		A	A	A	A		A	B	D
Brewery Slop	–	–	–		–	A	–	–		–	–		–	–	–	–		–	–	–	A		–	–	–
Bromine2 (wet)	D	D	D		D	D	A	A		D	A		D	D	A	A		D	A	A	D		D	D	D
Butadiene	–	–	A		B	A	A	A		A	A		B	A	A	A		–	A	A	-		–	–	C
Butane1 2	D	C	A		A	A	A	A		A	A		A	A	A	A		D	A	A	-		D	C	C
Butanol	–	–	A		–	A	A	–		A	A		–	A	A	–		–	–	A	-		–	–	–
Butter	–	–	B		–	A	–	–		B	–		–	B	–	–		–	–	–	D		–	–	D
Buttermilk	–	–	A		–	A	A	–		A	A		–	A	A	–		–	–	A	-		–	–	D
Butylene	–	–	B		A	A	A	–		B	A		A	B	A	–		–	–	A	A		–	–	–
Butyl Acetate1	D	C	–		A	C	A	C		–	A		A	–	A	C		D	C	A	D		D	C	–
Butyric Acid1	A	–	B		–	A	A	A		B	A		–	B	A	A		A	A	A	A		A	–	D
Calcium Bisulfate	–	–	D		–	A	A	–		D	A		–	D	A	–		–	–	A	-		–	–	D
Calcium Bisulfide	A	B	–		–	B	A	–		–	A		–	–	A	–		A	–	A	-		A	B	–
Calcium Bisulfite	A	–	B		–	A	A	A		B	A		–	B	A	A		A	A	A	-		A	–	–
Calcium Carbonate	A	B	A		–	A	A	–		A	A		–	A	A	–		A	–	A	-		A	B	D
Calcium Chlorate	–	A	B		–	A	A	–		B	A		–	B	A	–		–	–	A	-		–	A	–

Beständigkeitstabelle

Fluids	13 003 001 Polypropylene	13 003 001 Polyethylene	13 003 001 304 Stainless Steel		13 003 002 PPS	13 003 002 316 Stainless Steel	13 003 002 PTFE	13 003 002 PVDF		13 005 304 Stainless Steel	13 005 PTFE		13 064 001 PPS	13 064 001 304 Stainless Steel	13 064 001 PTFE	13 064 001 PVDF		13 064 Polypropylene	13 064 PVDF	13 064 PTFE	13 064 Phenolic		13 003 Polypropylene	13 003 Polyethylene	13 003 Steel
Calcium Chloride	A	B	A		A	D	A	A		A	A		A	A	A	A		A	A	A	A		A	B	C
Calcium Hydroxide	A	B	A		–	A	A	–		A	A		–	A	A	–		A	–	A	-		A	B	–
Calcium Hypochlorite	A	B	D		–	C	A	A		D	A		–	D	A	A		A	A	A	A		A	B	D
Calcium Sulfate	A	B	A		A	A	A	A		A	A		A	A	A	A		A	A	A			A	B	–
Calgon	A	–	A		–	A	–	–		A	–		–	A	–	–		A	–	–	D		A	–	D
Cane Juice2	D	–	A		–	A	–	–		A	–		–	A	–	–		D	–	–	A		D	–	–
Carbolic Acid (See Phenol)																					-				
Carbon Bisulfide2	D	–	A		–	A	–	–		A	–		–	A	–	–		D	–	–	-		D	–	–
Carbon Dioxide (wet)	–	–	A		–	A	A	–		A	A		–	A	A	–		–	–	A	-		–	–	C
Carbon Disulfide2	D	D	B		A	A	A	–		B	A		A	B	A	–		D	–	A	-		D	D	–
Carbon Monoxide	A	B	A		–	A	–	–		A	–		–	A	–	–		A	–	–	-		A	B	–
Carbon Tetrachloride1 2	D	D	B		C	B	A	A		B	A		C	B	A	A		D	A	A	A		D	D	C
Carbonated Water	A	–	A		–	A	–	–		A	–		–	A	–	–		A	–	–	-		A	–	D
Carbonic Acid	A	B	A		–	B	A	A		A	A		–	A	A	A		A	A	A	A		A	B	D
Catsup	A	–	A		–	A	–	–		A	–		–	A	–	–		A	–	–	D		A	–	D
Chloracetic Acid2	D	D	D		–	D	A	D		D	A		–	D	A	D		D	D	A	-		D	D	D
Chloric Acid	–	–	D		–	D	A	–		D	A		–	D	A	–		–	–	A	D		–	–	–
Chlorinated Glue	–	–	A		–	A	–	–		A	–		–	A	–	–		–	–	–	D		–	–	D
Chlorine, Anhydrous Liquid	D	D	D		C	D	A	–		D	A		C	D	A	–		D	–	A	-		D	D	C
Chlorine (dry)	–	–	A		C	A	A	–		A	A		C	A	A	–		–	–	A	-		–	–	–

Beständigkeitstabelle

Fluids	13 003 001 Polypropylene	13 003 001 Polyethylene	13 003 001 304 Stainless Steel		13 003 002 PPS	13 003 002 316 Stainless Steel	13 003 002 PTFE	13 003 002 PVDF		13 005 304 Stainless Steel	13 005 PTFE		13 064 001 PPS	13 064 001 304 Stainless Steel	13 064 001 PTFE	13 064 001 PVDF		13 064 Polypropylene	13 064 PVDF	13 064 PTFE	13 064 Phenolic		13 003 Polypropylene	13 003 Polyethylene	13 003 Steel
Chlorine Water	D	–	–		C	D	A	A		–	A		C	–	A	A		D	A	A	-		D	–	D
Chlorobenzene (Mono)	D	D	A		A	A	A	A		A	A		A	A	A	A		D	A	A	-		D	D	–
Chloroform	D	D	A		C	A	A	C		A	A		C	A	A	C		D	C	A			D	D	D
Chlorosulfonic Acid1	D	D	D		D	–	A	D		D	A		D	D	A	D		D	D	A	-		D	D	–
Chlorox (Bleach)	D	–	A		C	A	A	–		A	A		C	A	A	–		D	–	A	D		D	–	D
Chocolate Syrup	A	–	A		–	A	–	–		A	–		–	A	–	–		A	–	–	D		A	–	D
Chromic Acid 5%	A	B	A		A	A	–	–		A	–		A	A	–	–		A	–	–	C		A	B	D
Chromic Acid 10%	A	–	B		–	–	A	A		B	A		–	B	A	A		A	A	A	-		A	–	–
Chromic Acid 30%	A	–	B		–	–	A	B		B	A		–	B	A	B		A	B	A	-		A	–	–
Chromic Acid 50%	B	C	B		B	B	A	C		B	A		B	B	A	C		B	C	A	C		B	C	D
Cider	–	B	A		–	A	–	–		A	–		–	A	–	–		–	–	–	D		–	B	D
Citric Acid	B	B	A		–	A	A	A		A	A		–	A	A	A		B	A	A	B		B	B	D
Citric Oils	A	–	A		–	A	–	–		A	–		–	A	–	–		A	–	–	-		A	–	–
Coffee	A	–	A		–	A	A	–		A	A		–	A	A	–		A	–	A	-		A	–	C
Copper Chloride	A	B	D		A	D	A	A		D	A		A	D	A	A		A	A	A	D		A	B	D
Copper Cyanide	A	B	A		A	A	A	A		A	A		A	A	A	A		A	A	A	B		A	B	D
Copper Fluoborate	–	A	D		–	D	A	–		D	A		–	D	A	–		–	–	A	B		–	A	D
Copper Nitrate	A	B	A		–	A	A	A		A	A		–	A	A	A		A	A	A	A		A	B	–
Copper Sulfate (5% Solution)	A	B	A		A	A	A	–		A	A		A	A	A	–		A	–	A	-		A	B	D

Beständigkeitstabelle

Fluids	13 003 001 Polypropylene	13 003 001 Polyethylene	13 003 001 304 Stainless Steel		13 003 002 PPS	13 003 002 316 Stainless Steel	13 003 002 PTFE	13 003 002 PVDF		13 005 304 Stainless Steel	13 005 PTFE		13 064 001 PPS	13 064 001 304 Stainless Steel	13 064 001 PTFE	13 064 001 PVDF		13 064 Polypropylene	13 064 PVDF	13 064 PTFE	13 064 Phenolic		13 003 Polypropylene	13 003 Polyethylene	13 003 Steel
Copper Sulfate	A	–	B		–	–	A	A		B	A		–	B	A	A		A	A	A	B		A	–	–
Cream	A	–	A		–	A	–	–		A	–		–	A	–	–		A	–	–	B		A	–	D
Cresols2	C	D	A		A	A	–	–		A	–		A	A	–	–		C	–	–	-		C	D	–
Cresylic Acid	–	C	A		–	A	A	B		A	A		–	A	A	B		–	B	A	-		–	C	–
Cyclohexane	D	–	A		A	–	–	–		A	–		A	A	–	–		D	–	–	-		D	–	–
Cyanic Acid	–	–	A		–	–	–	–		A	–		–	A	–	–		–	–	–	-		–	–	–
Detergents	A	B	A		A	A	–	–		A	–		A	A	–	–		A	–	–	-		A	B	–
Dichlorethane	–	D	A		–	A	A	–		A	A		–	A	A	–		–	–	A	-		–	D	–
Diesel Fuel	D	–	A		A	A	–	–		A	–		A	A	–	–		D	–	–	-		D	–	A
Diethylamine	C	–	A		–	–	A	–		A	A		–	A	A	–		C	–	A	-		C	–	–
Diethylene Glycol	–	B	A		–	–	–	–		A	–		–	A	–	–		–	–	–	-		–	B	–
Diphenyl Oxide	–	–	A		–	–	–	–		A	–		–	A	–	–		–	–	–	-		–	–	–
Dyes	–	–	A		–	A	–	–		A	–		–	A	–	–		–	–	–	-		–	–	–
Epsom Salts (Magnesium Sulfate)	A	–	A		–	A	–	–		A	–		–	A	–	–		A	–	–	A		A	–	–
Ethane	–	–	A		–	–	–	–		A	–		–	A	–	–		–	–	–	-		–	–	–
Ethanolamine	–	–	A		A	A	–	–		A	–		A	A	–	–		–	–	–	B		–	–	–
Ether3	–	–	A		A	A	–	–		A	–		A	A	–	–		–	–	–	-		–	–	–
Ethyl Acetate2	C	C	A		A	A	A	D		A	A		A	A	A	D		C	D	A	A		C	C	–
Ethyl Chloride	D	D	A		A	A	A	A		A	A		A	A	A	A		D	A	A	D		D	D	C

Beständigkeitstabelle

Fluids	13 003 001 Polypropylene	13 003 001 Polyethylene	13 003 001 304 Stainless Steel		13 003 002 PPS	13 003 002 316 Stainless Steel	13 003 002 PTFE	13 003 002 PVDF		13 005 304 Stainless Steel	13 005 PTFE		13 064 001 PPS	13 064 001 304 Stainless Steel	13 064 001 PTFE	13 064 001 PVDF		13 064 Polypropylene	13 064 PVDF	13 064 PTFE	13 064 Phenolic		13 003 Polypropylene	13 003 Polyethylene	13 003 Steel
Ethyl Sulfate	–	–	D		–	–	–	–		D	–		–	D	–	–		–	–	–	-		–	–	–
Ethylene Chloride2	D	–	A		A	A	A	–		A	A		A	A	A	–		D	–	A	-		D	–	C
Ethylene Dichloride	A	D	A		A	A	A	–		A	A		A	A	A	–		A	–	A	-		A	D	–
Ethylene Glycol4	A	B	A		A	A	A	A		A	A		A	A	A	A		A	A	A	B		A	B	B
Ethylene Oxide	–	–	–		–	A	A	–		–	A		–	–	A	–		–	–	A	-		–	–	–
Fatty Acids	A	B	A		–	A	A	A		A	A		–	A	A	A		A	A	A	D		A	B	D
Ferric Chloride	A	B	D		A	D	A	A		D	A		A	D	A	A		A	A	A	B		A	B	D
Ferric Nitrate	A	B	A		A	A	A	A		A	A		A	A	A	A		A	A	A	-		A	B	–
Ferric Sulfate	A	–	A		A	C	A	A		A	A		A	A	A	A		A	A	A	-		A	–	D
Ferrous Chloride	A	B	D		A	D	A	A		D	A		A	D	A	A		A	A	A	A		A	B	D
Ferrous Sulfate	A	B	A		A	C	A	A		A	A		A	A	A	A		A	A	A	A		A	B	D
Fluoboric Acid	A	B	D		–	B	A	A		D	A		–	D	A	A		A	A	A	A		A	B	D
Fluorine	–	C	D		–	D	C	–		D	C		–	D	C	–		–	–	C	-		–	C	D
Fluosilicic Acid	A	B	–		–	B	A	A		–	A		–	–	A	A		A	A	A	-		A	B	D
Formaldehyde 40%	A	–	–		A	A	A	B		–	A		A	–	A	B		A	B	A	-		A	–	–
Formaldehyde	A	B	A		A	A	A	–		A	A		A	A	A	–		A	–	A	C		A	B	D
Formic Acid6	A	B	A		A	B	A	A		A	A		A	A	A	A		A	A	A	B		A	B	D
Fruit Juice	A	B	A		–	A	D	–		A	D		–	A	D	–		A	–	D	-		A	B	D
Fuel Oils	B	D	A		A	A	A	A		A	A		A	A	A	A		B	A	A	-		B	D	C

Beständigkeitstabelle

Fluids	13 003 001 Polypropylene	13 003 001 Polyethylene	13 003 001 304 Stainless Steel		13 003 002 PPS	13 003 002 316 Stainless Steel	13 003 002 PTFE	13 003 002 PVDF		13 005 304 Stainless Steel	13 005 PTFE		13 064 001 PPS	13 064 001 304 Stainless Steel	13 064 001 PTFE	13 064 001 PVDF		13 064 Polypropylene	13 064 PVDF	13 064 PTFE	13 064 Phenolic		13 003 Polypropylene	13 003 Polyethylene	13 003 Steel
Furan Resin	–	–	A		A	A	A	–		A	A		A	A	A	–		–	–	A	A		–	–	A
Furfural1	D	D	A		A	A	A	D		A	A		A	A	A	D		D	D	A	A		D	D	–
Gallic Acid	–	–	A		–	A	A	–		A	A		–	A	A	–		–	–	A	-		–	–	D
Gasoline1 4	C	D	A		A	A	A	A		A	A		A	A	A	A		C	A	A	B		C	D	C
Gelatin	A	–	A		–	A	A	–		A	A		–	A	A	–		A	–	A	D		A	–	D
Glucose	A	B	–		–	A	A	–		–	A		–	–	A	–		A	–	A	A		A	B	–
Glue P.V.A.1	–	–	B		–	A	A	–		B	A		–	B	A	–		–	–	A	-		–	–	–
Glycerine	A	–	A		–	A	A	A		A	A		–	A	A	A		A	A	A	A		A	–	–
Glycolic Acid	A	B	–		A	–	–	–		–	–		A	–	–	–		A	–	–	-		A	B	–
Gold Monocyanide	–	–	–		–	A	–	–		–	–		–	–	–	–		–	–	–	A		–	–	D
Grape Juice	–	B	A		–	A	–	–		A	–		–	A	–	–		–	–	–	A		–	B	D
Grease4	–	–	A		–	A	A	–		A	A		–	A	A	–		–	–	A	-		–	–	–
Heptane1	D	D	–		A	A	A	A		–	A		A	–	A	A		D	A	A	-		D	D	–
Hexane1	C	–	A		A	A	A	A		A	A		A	A	A	A		C	A	A	-		C	–	–
Honey	A	–	A		–	A	–	–		A	–		–	A	–	–		A	–	–	-		A	–	A
Hydraulic oils (Petroleum)1	D	–	A		–	A	A	–		A	A		–	A	A	–		D	–	A	-		D	–	–
Hydraulic Oils (Synthetic)1	D	–	A		–	A	–	–		A	–		–	A	–	–		D	–	–	-		D	–	A
Hydrazine	–	–	A		–	A	–	–		A	–		–	A	–	–		–	–	–	A		–	–	C
Hydrobromic Acid 20%	A	–	–		–	D	A	A		–	A		–	–	A	A		A	A	A	-		A	–	–

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Fluids	13 003 001 Polypropylene	13 003 001 Polyethylene	13 003 001 304 Stainless Steel		13 003 002 PPS	13 003 002 316 Stainless Steel	13 003 002 PTFE	13 003 002 PVDF		13 005 304 Stainless Steel	13 005 PTFE		13 064 001 PPS	13 064 001 304 Stainless Steel	13 064 001 PTFE	13 064 001 PVDF		13 064 Polypropylene	13 064 PVDF	13 064 PTFE	13 064 Phenolic		13 003 Polypropylene	13 003 Polyethylene	13 003 Steel
Hydrobromic Acid4	B	B	D		–	D	A	A		D	A		–	D	A	A		B	A	A	D		B	B	D
Hydrochloric/Muratic Acid (Dry gas)	–	–	C		–	A	A	–		C	A		–	C	A	–		–	–	A	-		–	–	–
Hydrochloric/Muratic Acid (20%)4	A	A	D		D	D	A	A		D	A		D	D	A	A		A	A	A	A		A	A	D
Hydrochloric/Muratic Acid (37%)4	A	A	D		D	D	A	A		D	A		D	D	A	A		A	A	A	C		A	A	D
Hydrochloric/Muratic Acid (100%)	–	A	D		–	D	A	–		D	A		–	D	A	–		–	–	A	-		–	A	D
Hydrocyanic Acid	A	B	A		–	A	A	–		A	A		–	A	A	–		A	–	A	-		A	B	–
Hydrocyanic Acid (Gas 10%)	–	–	D		–	D	A	–		D	A		–	D	A	–		–	–	A	-		–	–	–
Hydrofluoric Acid (20%)1	A	C	D		C	D	A	–		D	A		C	D	A	–		A	–	A	D		A	C	D
Hydrofluoric Acid (75%)1 2	B	C	C		C	D	A	A		C	A		C	C	A	A		B	A	A	D		B	C	D
Hydrofluoric Acid 100%	–	D	B		C	B	A	–		B	A		C	B	A	–		–	–	A	-		–	D	D
Hydrofluosilicic Acid (20%)	A	–	D		–	D	A	–		D	A		–	D	A	–		A	–	A	D		A	–	D
Hydrofluosilicic Acid	–	–	D		–	D	A	–		D	A		–	D	A	–		–	–	A	-		–	–	–
Hydrogen Gas	–	–	A		–	A	A	A		A	A		–	A	A	A		–	A	A	-		–	–	–
Hydrogen Peroxide 10%	–	A	C		B	C	A	–		C	A		B	C	A	–		–	–	A	-		–	A	D
Hydrogen Peroxide 30%	A	–	–		C	B	A	–		–	A		C	–	A	–		A	–	A	-		A	–	–
Hydrogen Peroxide	A	B	A		C	B	A	C		A	A		C	A	A	C		A	C	A	D		A	B	D
Hydrogen Sulfide,Aqueous Solution	A	B	D		A	A	A	A		D	A		A	D	A	A		A	A	A	D		A	B	D
Hydrogen Sulfide (dry)	–	–	C		A	A	A	–		C	A		A	C	A	–		–	–	A	-		–	–	–

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Hydroxyacetic Acid (70%)	–	–	–		–	–	–	–		–	–		–	–	–	–		–	–	–	-		–	–	–
Ink	–	B	A		–	A	–	–		A	–		–	A	–	–		–	–	–	-		–	B	D
Iodine	D	D	D		–	D	A	–		D	A		–	D	A	–		D	–	A	-		D	D	D
Iodine (In Alcohol)	B	–	–		–	B	A	–		–	A		–	–	A	–		B	–	A	-		B	–	–
Iodoform	–	–	C		–	A	A	–		C	A		–	C	A	–		–	–	A	-		–	–	C
Isotane2	D	–	–		–	–	–	–		–	–		–	–	–	–		D	–	–	-		D	–	–
Isopropyl Acetate	–	–	–		–	B	–	–		–	–		–	–	–	–		–	–	–	-		–	–	–
Isopropyl Ether2	D	–	–		–	A	A	–		–	A		–	–	A	–		D	–	A	-		D	–	–
Jet Fuel (JP#,JP4,JP5)	D	–	A		A	A	A	A		A	A		A	A	A	A		D	A	A	D		D	–	A
Kerosene2	D	D	A		A	A	A	A		A	A		A	A	A	A		D	A	A	A		D	D	D
Ketones	D	D	A		A	A	A	D		A	A		A	A	A	D		D	D	A	A		D	D	D
Lacquers	A	–	A		–	A	–	–		A	–		–	A	–	–		A	–	–	A		A	–	C
Lacquer Thinners	B	–	–		–	A	A	–		–	A		–	–	A	–		B	–	A	-		B	–	–
Lactic Acid	A	B	A		A	B	A	C		A	A		A	A	A	C		A	C	A	-		A	B	D
Lard	A	–	A		–	A	–	–		A	–		–	A	–	–		A	–	–	D		A	–	–
Latex	–	B	A		–	A	–	–		A	–		–	A	–	–		–	–	–	D		–	B	–
Lead Acetate	A	B	A		–	A	A	–		A	A		–	A	A	–		A	–	A	-		A	B	–
Lead Sulfamate	A	–	–		–	–	–	–		–	–		–	–	–	–		A	–	–	-		A	–	–
Ligroin3	D	–	–		–	A	–	–		–	–		–	–	–	–		D	–	–	-		D	–	–

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Fluids	13 003 001 Polypropylene	13 003 001 Polyethylene	13 003 001 304 Stainless Steel		13 003 002 PPS	13 003 002 316 Stainless Steel	13 003 002 PTFE	13 003 002 PVDF		13 005 304 Stainless Steel	13 005 PTFE		13 064 001 PPS	13 064 001 304 Stainless Steel	13 064 001 PTFE	13 064 001 PVDF		13 064 Polypropylene	13 064 PVDF	13 064 PTFE	13 064 Phenolic		13 003 Polypropylene	13 003 Polyethylene	13 003 Steel
Lime	–	–	A		–	A	–	–		A	–		–	A	–	–		–	–	–	D		–	–	–
Lubricants	A	–	A		A	A	A	–		A	A		A	A	A	–		A	–	A	A		A	–	–
Magnesium Carbonate	A	B	A		–	A	–	–		A	–		–	A	–	–		A	–	–	-		A	B	–
Magnesium Chloride	A	B	B		A	B	A	–		B	A		A	B	A	–		A	–	A	A		A	B	D
Magnesium Hydroxide	A	B	A		A	A	A	A		A	A		A	A	A	A		A	A	A	D		A	B	–
Magnesium Nitrate	A	B	A		–	A	A	–		A	A		–	A	A	–		A	–	A	-		A	B	–
Magnesium Oxide	–	–	A		–	A	–	–		A	–		–	A	–	–		–	–	–	-		–	–	–
Magnesium Sulfate	A	B	B		A	A	A	–		B	A		A	B	A	–		A	–	A	A		A	B	C
Maleic Acid	C	–	A		–	A	A	–		A	A		–	A	A	–		C	–	A	-		C	–	–
Maleic Anhydride	–	–	–		–	–	–	–		–	–		–	–	–	–		–	–	–	-		–	–	–
Malic Acid	–	–	A		–	A	A	–		A	A		–	A	A	–		–	–	A	-		–	–	–
Mash	–	–	A		–	A	–	–		A	–		–	A	–	–		–	–	–	-		–	–	–
Mayonnaise	A	–	A		–	A	A	–		A	A		–	A	A	–		A	–	A	-		A	–	D
Melamine	–	–	D		–	D	–	–		D	–		–	D	–	–		–	–	–	-		–	–	–
Mercuric Chloride (Dilute Solution)	A	B	D		–	D	A	–		D	A		–	D	A	–		A	–	A	A		A	B	D
Mercuric Cyanide	A	B	A		–	A	A	–		A	A		–	A	A	–		A	–	A			A	B	–
Mercury	A	B	A		–	A	A	–		A	A		–	A	A	–		A	–	A	D		A	B	–
Methanol (See Alcohol Methyl)																					-				
Methyl Acetate	–	–	–		–	A	A	–		–	A		–	–	A	–		–	–	A	-		–	–	–

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Fluids	13 003 001 Polypropylene	13 003 001 Polyethylene	13 003 001 304 Stainless Steel		13 003 002 PPS	13 003 002 316 Stainless Steel	13 003 002 PTFE	13 003 002 PVDF		13 005 304 Stainless Steel	13 005 PTFE		13 064 001 PPS	13 064 001 304 Stainless Steel	13 064 001 PTFE	13 064 001 PVDF		13 064 Polypropylene	13 064 PVDF	13 064 PTFE	13 064 Phenolic		13 003 Polypropylene	13 003 Polyethylene	13 003 Steel
Methyl Acrylate	–	–	–		–	–	–	–		–	–		–	–	–	–		–	–	–	-		–	–	–
Methyl Acetone	–	–	–		–	A	A	–		–	A		–	–	A	–		–	–	A	-		–	–	–
Methyl Alcohol 10%	–	–	–		–	A	A	–		–	A		–	–	A	–		–	–	A	-		–	–	–
Methyl Bromide	–	D	–		–	–	–	–		–	–		–	–	–	–		–	–	–	-		–	D	–
Methyl Butyl Ketone	–	–	–		–	A	–	–		–	–		–	–	–	–		–	–	–	-		–	–	–
Methyl Cellosolve	A	–	–		–	–	–	–		–	–		–	–	–	–		A	–	–	-		A	–	–
Methyl Chloride	D	D	A		–	A	A	A		A	A		–	A	A	A		D	A	A	-		D	D	–
Methyl Dichloride	–	–	–		–	–	–	–		–	–		–	–	–	–		–	–	–	-		–	–	–
Methyl Ethyl Ketone	A	D	A		A	A	A	D		A	A		A	A	A	D		A	D	A	A		A	D	–
Methyl Isobutyl Ketone2	C	–	–		A	A	A	D		–	A		A	–	A	D		C	D	A	-		C	–	–
Methyl Isopropyl Ketone	–	–	–		–	A	–	–		–	–		–	–	–	–		–	–	–	-		–	–	–
Methyl Methacrylate	–	–	–		–	–	–	–		–	–		–	–	–	–		–	–	–	-		–	–	–
Methylamine	–	–	–		–	A	–	–		–	–		–	–	–	–		–	–	–	-		–	–	–
Methylene Chloride	B	D	B		A	B	A	D		B	A		A	B	A	D		B	D	A	-		B	D	–
Milk	A	B	A		–	A	–	–		A	–		–	A	–	–		A	–	–	A		A	B	D
Molasses	A	B	A		–	A	–	–		A	–		–	A	–	–		A	–	–	A		A	B	–
Mustard	A	–	A		–	A	–	–		A	–		–	A	–	–		A	–	–	D		A	–	C
Naphtha	A	D	A		A	A	A	A		A	A		A	A	A	A		A	A	A	A		A	D	–
Naphthalene	B	D	A		A	B	A	A		A	A		A	A	A	A		B	A	A	A		B	D	–

Beständigkeitstabelle

Fluids	13 003 001 Polypropylene	13 003 001 Polyethylene	13 003 001 304 Stainless Steel		13 003 002 PPS	13 003 002 316 Stainless Steel	13 003 002 PTFE	13 003 002 PVDF		13 005 304 Stainless Steel	13 005 PTFE		13 064 001 PPS	13 064 001 304 Stainless Steel	13 064 001 PTFE	13 064 001 PVDF		13 064 Polypropylene	13 064 PVDF	13 064 PTFE	13 064 Phenolic		13 003 Polypropylene	13 003 Polyethylene	13 003 Steel
Nickel Chloride	A	B	A		–	B	A	A		A	A		–	A	A	A		A	A	A	A		A	B	D
Nickel Sulfate	A	B	A		–	B	A	A		A	A		–	A	A	A		A	A	A	C		A	B	D
Nitric Acid (10% Solution)	A	B	A		D	A	A	A		A	A		D	A	A	A		A	A	A	-		A	B	D
Nitric Acid (20% Solution)	A	B	A		C	A	A	B		A	A		C	A	A	B		A	B	A	-		A	B	D
Nitric Acid (50% Solution)	D	C	A		C	A	A	B		A	A		C	A	A	B		D	B	A	-		D	C	D
Nitric Acid (Concentrated Solution)	D	D	D		C	B	A	–		D	A		C	D	A	–		D	–	A	-		D	D	D
Nitrobenzene2	C	D	A		B	B	A	D		A	A		B	A	A	D		C	D	A	-		C	D	–
Oil, Aniline	A	–	A		–	A	A	–		A	A		–	A	A	–		A	–	A	D		A	–	A
Oil, Anise	–	–	A		–	A	–	–		A	–		–	A	–	–		–	–	–	-		–	–	–
Oil, Bay	–	–	A		–	A	–	–		A	–		–	A	–	–		–	–	–	-		–	–	–
Oil, Bone	–	–	A		–	A	–	–		A	–		–	A	–	–		–	–	–	-		–	–	–
Oil, Castor	–	–	A		–	A	–	–		A	–		–	A	–	–		–	–	–	-		–	–	B
Oil, Cinnamon	A	–	A		–	A	A	–		A	A		–	A	A	–		A	–	A	A		A	–	–
Oil, Citric	A	–	A		–	A	–	–		A	–		–	A	–	–		A	–	–	-		A	–	D
Oil, Clove	B	–	A		–	A	–	–		A	–		–	A	–	–		B	–	–	A		B	–	–
Oil, Coconut	A	–	A		–	A	–	–		A	–		–	A	–	–		A	–	–	A		A	–	B
Oil, Cod Liver	A	–	A		–	A	–	–		A	–		–	A	–	–		A	–	–	A		A	–	–
Oil, Corn	A	–	A		–	A	–	–		A	–		–	A	–	–		A	–	–	-		A	–	B
Oil, Cotton Seed	A	–	A		A	A	A	–		A	A		A	A	A	–		A	–	A	A		A	–	B

Beständigkeitstabelle

Fluids	13 003 001 Polypropylene	13 003 001 Polyethylene	13 003 001 304 Stainless Steel		13 003 002 PPS	13 003 002 316 Stainless Steel	13 003 002 PTFE	13 003 002 PVDF		13 005 304 Stainless Steel	13 005 PTFE		13 064 001 PPS	13 064 001 304 Stainless Steel	13 064 001 PTFE	13 064 001 PVDF		13 064 Polypropylene	13 064 PVDF	13 064 PTFE	13 064 Phenolic		13 003 Polypropylene	13 003 Polyethylene	13 003 Steel
Oil, Creosote2	D	–	A		–	A	–	–		A	–		–	A	–	–		D	–	–	-		D	–	–
Oil, Diesel Fuel (2D,3D,4D,5D)	A	–	A		A	A	–	–		A	–		A	A	–	–		A	–	–	-		A	–	–
Oil, Fuel (1,2,3,5A,5B,6)	B	–	A		–	A	A	–		A	A		–	A	A	–		B	–	A	-		B	–	–
Oil, Ginger	–	–	A		–	A	–	–		A	–		–	A	–	–		–	–	–	A		–	–	–
Oil, Hydraulic(See Hydraulic)																					-				
Oil, Lemon	D	–	A		–	A	–	–		A	–		–	A	–	–		D	–	–	A		D	–	–
Oil, Linseed	A	–	A		–	A	–	–		A	–		–	A	–	–		A	–	–	A		A	–	B
Oil, Mineral	B	–	A		A	A	–	–		A	–		A	A	–	–		B	–	–	A		B	–	B
Oil, Olive	A	–	A		–	A	A	–		A	A		–	A	A	–		A	–	A	A		A	–	B
Oil, Orange	A	–	A		–	A	A	–		A	A		–	A	A	–		A	–	A	A		A	–	–
Oil, Palm	–	–	A		–	A	–	–		A	–		–	A	–	–		–	–	–	A		–	–	–
Oil, Peanut3	D	–	A		–	A	–	–		A	–		–	A	–	–		D	–	–	A		D	–	B
Oil, Peppermint2	D	–	A		–	A	–	–		A	–		–	A	–	–		D	–	–	A		D	–	–
Oil, Pine	–	–	A		–	A	A	–		A	A		–	A	A	–		–	–	A	A		–	–	C
Oil, Rape Seed	–	–	A		–	A	–	–		A	–		–	A	–	–		–	–	–	A		–	–	–
Oil, Rosin	A	–	A		–	A	–	–		A	–		–	A	–	–		A	–	–	A		A	–	–
Oil, Sesame Seed	–	–	A		–	A	–	–		A	–		–	A	–	–		–	–	–	A		–	–	B
Oil, Silicone	A	–	A		–	A	–	–		A	–		–	A	–	–		A	–	–	A		A	–	–
Oil, Soybean	A	–	A		–	A	–	–		A	–		–	A	–	–		A	–	–	A		A	–	B
Oil, Sperm	–	–	A		–	A	–	–		A	–		–	A	–	–		–	–	–	A		–	–	–

Beständigkeitstabelle

Fluids	13 003 001 Polypropylene	13 003 001 Polyethylene	13 003 001 304 Stainless Steel		13 003 002 PPS	13 003 002 316 Stainless Steel	13 003 002 PTFE	13 003 002 PVDF		13 005 304 Stainless Steel	13 005 PTFE		13 064 001 PPS	13 064 001 304 Stainless Steel	13 064 001 PTFE	13 064 001 PVDF		13 064 Polypropylene	13 064 PVDF	13 064 PTFE	13 064 Phenolic		13 003 Polypropylene	13 003 Polyethylene	13 003 Steel
Oil, Tanning	–	–	A		–	A	–	–		A	–		–	A	–	–		–	–	–	A		–	–	–
Oil, Turbine	–	–	A		–	A	–	–		A	–		–	A	–	–		–	–	–	A		–	–	B
Oleic Acid	C	D	A		–	A	A	–		A	A		–	A	A	–		C	–	A	-		C	D	C
Oleum 25%	–	–	–		–	–	A	B		–	A		–	–	A	B		–	B	A	-		–	–	–
Oleum	D	–	–		–	A	A	D		–	A		–	–	A	D		D	D	A	-		D	–	–
Oxalic Acid (cold)	A	A	A		–	B	A	–		A	A		–	A	A	–		A	–	A	-		A	A	D
Paraffin	A	–	A		–	A	A	A		A	A		–	A	A	A		A	A	A	-		A	–	–
Pentane	–	–	C		–	C	A	–		C	A		–	C	A	–		–	–	A	-		–	–	–
Perchloroethylene2	D	–	A		A	A	A	A		A	A		A	A	A	A		D	A	A	D		D	–	–
Petrolatum	–	–	–		–	A	A	–		–	A		–	–	A	–		–	–	A	-		–	–	C
Phenol 10%	–	–	A		A	A	A	–		A	A		A	A	A	–		–	–	A	-		–	–	–
Phenol (Carbolic Acid)	B	D	A		A	A	A	A		A	A		A	A	A	A		B	A	A	D		B	D	D
Phosphoric Acid (40% Solution)	A	B	B		A	A	A	–		B	A		A	B	A	–		A	–	A	-		A	B	D
Phosphoric Acid (40% - 100% Solution)	A	C	C		A	B	A	–		C	A		A	C	A	–		A	–	A	-		A	C	D
Phosphoric Acid (Crude)	–	C	D		A	C	A	A		D	A		A	D	A	A		–	A	A	D		–	C	D
Phosphoric Anhydride (Dry or Moist)	–	–	A		–	A	A	–		A	A		–	A	A	–		–	–	A	-		–	–	–
Phosphoric Anhydride (Molten)	–	D	A		–	A	A	–		A	A		–	A	A	–		–	–	A	-		–	D	–
Photographic (Developer)	A	B	C		–	A	–	–		C	–		–	C	–	–		A	–	–	A		A	B	D
Phthalic Anhydride	–	–	A		–	B	A	–		A	A		–	A	A	–		–	–	A	-		–	–	C

Beständigkeitstabelle

Fluids	13 003 001 Polypropylene	13 003 001 Polyethylene	13 003 001 304 Stainless Steel		13 003 002 PPS	13 003 002 316 Stainless Steel	13 003 002 PTFE	13 003 002 PVDF		13 005 304 Stainless Steel	13 005 PTFE		13 064 001 PPS	13 064 001 304 Stainless Steel	13 064 001 PTFE	13 064 001 PVDF		13 064 Polypropylene	13 064 PVDF	13 064 PTFE	13 064 Phenolic		13 003 Polypropylene	13 003 Polyethylene	13 003 Steel
Picric Acid	–	A	A		–	A	A	–		A	A		–	A	A	–		–	–	A	-		–	A	D
Plating Solutions																					-				
Antimony Plating 130˚F	A	–	–		–	A	A	–		–	A		–	–	A	–		A	–	A	A		A	–	–
Arsenic Plating 110˚F	A	–	–		–	A	A	–		–	A		–	–	A	–		A	–	A	A		A	–	–
Brass Plating																					-				
Regular Brass Bath 100˚F	A	–	–		–	A	A	–		–	A		–	–	A	–		A	–	A	A		A	–	–
High Speed Brass Bath 110˚F	A	–	–		–	A	A	–		–	A		–	–	A	–		A	–	A	-		A	–	–
Bronze Plating																									
Copper Cadmium Bronze Bath R.T.	A	–	–		–	A	A	–		–	A		–	–	A	–		A	–	A	A		A	–	–
Copper-Tin Bronze Bath 160˚F	A	–	–		–	A	A	–		–	A		–	–	A	–		A	–	A	A		A	–	–
Copper-Zine Bronze Bath100˚F	A	–	–		–	A	A	–		–	A		–	–	A	–		A	–	A	A		A	–	–
Cadmium Plating																									
Cyanide Bath 90˚F	A	–	–		–	A	A	–		–	A		–	–	A	–		A	–	A	-		A	–	–
Fluoborate Bath 100˚F	A	–	–		–	A	A	–		–	A		–	–	A	–		A	–	A	A		A	–	–
Chromium Plating																									
Chromic-Sulfuric Bath 130˚F	A	–	–		–	C	A	–		–	A		–	–	A	–		A	–	A	A		A	–	–
Fluosilicate Bath 95˚F	A	–	–		–	C	A	–		–	A		–	–	A	–		A	–	A			A	–	–
Fluoride Bath 130 ˚F	A	–	–		–	D	A	–		–	A		–	–	A	–		A	–	A	-		A	–	–
Black Chrome Bath 115˚F	A	–	–		–	C	A	–		–	A		–	–	A	–		A	–	A	-		A	–	–
Barrel Chrome Bath 95˚F	A	–	–		–	D	A	–		–	A		–	–	A	–		A	–	A	-		A	–	–

Beständigkeitstabelle

Fluids	13 003 001 Polypropylene	13 003 001 Polyethylene	13 003 001 304 Stainless Steel		13 003 002 PPS	13 003 002 316 Stainless Steel	13 003 002 PTFE	13 003 002 PVDF		13 005 304 Stainless Steel	13 005 PTFE		13 064 001 PPS	13 064 001 304 Stainless Steel	13 064 001 PTFE	13 064 001 PVDF		13 064 Polypropylene	13 064 PVDF	13 064 PTFE	13 064 Phenolic		13 003 Polypropylene	13 003 Polyethylene	13 003 Steel
Copper Plating (Cyanide)																					-				
Copper Strike Bath 120˚F	–	–	–		–	–	A	–		–	A		–	–	A	–		–	–	A	-		–	–	–
Rochelle Salt Bath 150˚F	A	–	–		–	A	A	–		–	A		–	–	A	–		A	–	A	-		A	–	–
High Speed Bath 180˚F	A	–	–		–	A	A	–		–	A		–	–	A	–		A	–	A	-		A	–	–
Copper Plating (Acid)																									
Copper Sulfate Bath R.T.	A	–	–		–	D	A	–		–	A		–	–	A	–		A	–	A	-		A	–	–
Copper Fluoborate Bath 120˚F	A	–	–		–	D	A	–		–	A		–	–	A	–		A	–	A	A		A	–	–
Copper (Misc.)																									
Copper Pyrophosphate 140˚F	A	–	–		–	A	A	–		–	A		–	–	A	–		A	–	A	-		A	–	–
Copper (Electroless) 140˚F	A	–	–		–	–	A	–		–	A		–	–	A	–		A	–	A	-		A	–	–
Gold Plating																									
Cyanide 150˚F	A	–	–		–	A	A	–		–	A		–	–	A	–		A	–	A	-		A	–	–
Neutral 75˚F	A	–	–		–	C	A	–		–	A		–	–	A	–		A	–	A	-		A	–	–
Acid 75˚F	A	–	–		–	C	A	–		–	A		–	–	A	–		A	–	A	-		A	–	–
Indium Sulfamate Plating	A	–	–		–	C	A	–		–	A		–	–	A	–		A	–	A	-		A	–	–
Iron Plating																									
Ferrous Chloride Bath 190˚F	C	–	–		–	D	A	–		–	A		–	–	A	–		C	–	A	-		C	–	–
Ferrous Sulfate Bath 150˚F	A	–	–		–	C	A	–		–	A		–	–	A	–		A	–	A	A		A	–	–
Ferrous Am. Sulfate Bath 150˚F	A	–	–		–	C	A	–		–	A		–	–	A	–		A	–	A	A		A	–	–
Sulfate-Chloride Bath 160˚F	A	–	–		–	D	A	–		–	A		–	–	A	–		A	–	A	A		A	–	–

Beständigkeitstabelle

Fluids	13 003 001 Polypropylene	13 003 001 Polyethylene	13 003 001 304 Stainless Steel		13 003 002 PPS	13 003 002 316 Stainless Steel	13 003 002 PTFE	13 003 002 PVDF		13 005 304 Stainless Steel	13 005 PTFE		13 064 001 PPS	13 064 001 304 Stainless Steel	13 064 001 PTFE	13 064 001 PVDF		13 064 Polypropylene	13 064 PVDF	13 064 PTFE	13 064 Phenolic		13 003 Polypropylene	13 003 Polyethylene	13 003 Steel
Fluoborate Bath 145˚F	A	–	–		–	D	A	–		–	A		–	–	A	–		A	–	A	-		A	–	–
Sulfamate 140˚F	A	–	–		–	D	A	–		–	A		–	–	A	–		A	–	A	-		A	–	–
Lead Fluoborate Plating	A	–	–		–	C	A	–		–	A		–	–	A	–		A	–	A	A		A	–	–
Nickel Plating																									
Watts Type 115-160˚F	A	–	–		–	C	A	–		–	A		–	–	A	–		A	–	A	-		A	–	–
High Chloride 130-160˚F	A	–	–		–	C	A	–		–	A		–	–	A	–		A	–	A	-		A	–	–
Fluoborate 100-170˚F	A	–	–		–	C	A	–		–	A		–	–	A	–		A	–	A	A		A	–	–
Sulfamate 140˚F	A	–	–		–	C	A	–		–	A		–	–	A	–		A	–	A	-		A	–	–
Electroless 200˚F	D	–	–		–	–	A	–		–	A		–	–	A	–		D	–	A	-		D	–	–
Rhodium Plating 120˚F	A	–	–		–	D	A	–		–	A		–	–	A	–		A	–	A	-		A	–	–
Silver Plating 80-120˚F	A	–	–		–	A	A	–		–	A		–	–	A	–		A	–	A	A		A	–	–
Tin-Fluoborate Plating 100˚F	A	–	–		–	C	A	–		–	A		–	–	A	–		A	–	A	A		A	–	–
Tine-Lead Plating 100˚F	A	–	–		–	C	A	–		–	A		–	–	A	–		A	–	A	-		A	–	–
Zinc Plating																									
Acid Chloride 140˚F	A	–	–		–	D	A	–		–	A		–	–	A	–		A	–	A	-		A	–	–
Acid Sulfate Bath 150˚F	A	–	–		–	C	A	–		–	A		–	–	A	–		A	–	A	A		A	–	–
Acid Fluoborate Bath R.T.	A	–	–		–	–	A	–		–	A		–	–	A	–		A	–	A	-		A	–	–
Alkaline Cyanide Bath R.T.	A	–	–		–	–	A	–		–	A		–	–	A	–		A	–	A	-		A	–	–
Potash	A	B	A		–	–	–	–		A	–		–	A	–	–		A	–	–	C		A	B	–
Potassium Bicarbonate	A	B	A		A	–	A	A		A	A		A	A	A	A		A	A	A	A		A	B	D

Beständigkeitstabelle

Fluids	13 003 001 Polypropylene	13 003 001 Polyethylene	13 003 001 304 Stainless Steel		13 003 002 PPS	13 003 002 316 Stainless Steel	13 003 002 PTFE	13 003 002 PVDF		13 005 304 Stainless Steel	13 005 PTFE		13 064 001 PPS	13 064 001 304 Stainless Steel	13 064 001 PTFE	13 064 001 PVDF		13 064 Polypropylene	13 064 PVDF	13 064 PTFE	13 064 Phenolic		13 003 Polypropylene	13 003 Polyethylene	13 003 Steel
Potassium Bromide	A	B	A		C	–	A	A		A	A		C	A	A	A		A	A	A	-		A	B	D
Potassium Carbonate	A	B	A		A	–	A	A		A	A		A	A	A	A		A	A	A	A		A	B	–
Potassium Chlorate	A	B	A		A	A	A	A		A	A		A	A	A	A		A	A	A			A	B	–
Potassium Chloride	A	B	A		A	A	A	A		A	A		A	A	A	A		A	A	A	A		A	B	–
Potassium Chromate	–	B	–		A	B	–	–		–	–		A	–	–	–		–	–	–	D		–	B	–
Potassium Cyanide Solutions	A	B	A		A	B	A	A		A	A		A	A	A	A		A	A	A	D		A	B	–
Potassium Dichromate	A	B	A		A	A	A	A		A	A		A	A	A	A		A	A	A	D		A	B	–
Potassium Ferrocyanide	–	A	A		–	–	A	–		A	A		–	A	A	–		–	–	A	-		–	A	–
Potassium Hydroxide (50%)	A	B	B		A	B	A	D		B	A		A	B	A	D		A	D	A	C		A	B	C
Potassium Nitrate	A	B	A		C	B	A	A		A	A		C	A	A	A		A	A	A	-		A	B	–
Potassium Permanganate	B	B	A		A	B	A	A		A	A		A	A	A	A		B	A	A	A		B	B	–
Potassium Sulfate	A	B	A		A	B	A	A		A	A		A	A	A	A		A	A	A	A		A	B	–
Potassium Sulfide	–	–	A		–	–	A	–		A	A		–	A	A	–		–	–	A	-		–	–	–
Propane (Liquified)1 2	D	–	A		–	–	A	–		A	A		–	A	A	–		D	–	A	-		D	–	–
Propylene Glycol	–	B	B		–	–	A	–		B	A		–	B	A	–		–	–	A	A		–	B	–
Pyridine	B	C	C		A	–	A	D		C	A		A	C	A	D		B	D	A	-		B	C	–
Pyrogallic Acid	–	–	A		–	A	A	–		A	A		–	A	A	–		–	–	A	-		–	–	–
Rosins	A	–	A		–	A	A	–		A	A		–	A	A	–		A	–	A	-		A	–	–
Rum	A	–	A		–	–	–	–		A	–		–	A	–	–		A	–	–	A		A	–	–

Beständigkeitstabelle

Fluids	13 003 001 Polypropylene	13 003 001 Polyethylene	13 003 001 304 Stainless Steel		13 003 002 PPS	13 003 002 316 Stainless Steel	13 003 002 PTFE	13 003 002 PVDF		13 005 304 Stainless Steel	13 005 PTFE		13 064 001 PPS	13 064 001 304 Stainless Steel	13 064 001 PTFE	13 064 001 PVDF		13 064 Polypropylene	13 064 PVDF	13 064 PTFE	13 064 Phenolic		13 003 Polypropylene	13 003 Polyethylene	13 003 Steel
Rust Inhibitors	A	–	A		–	–	–	–		A	–		–	A	–	–		A	–	–	A		A	–	–
Salad Dressing	A	–	A		–	–	–	–		A	–		–	A	–	–		A	–	–	D		A	–	D
Sea Water	A	B	A		–	C	A	–		A	A		–	A	A	–		A	–	A	A		A	B	–
Shellac (Bleached)	A	–	A		–	–	A	–		A	A		–	A	A	–		A	–	A	-		A	–	–
Shellac (Orange)	A	–	A		–	–	A	–		A	A		–	A	A	–		A	–	A	-		A	–	C
Silicone	A	–	B		–	–	–	–		B	–		–	B	–	–		A	–	–	-		A	–	–
Silver Bromide	–	–	C		–	C	–	–		C	–		–	C	–	–		–	–	–	-		–	–	–
Silver Nitrate	A	B	A		–	B	A	A		A	A		–	A	A	A		A	A	A	A		A	B	D
Soap Solutions1	A	B	A		A	A	A	–		A	A		A	A	A	–		A	–	A	A		A	B	C
Soda Ash (See Sodium Carbonate)																									
Sodium Acetate	A	B	A		–	A	A	A		A	A		–	A	A	A		A	A	A	-		A	B	C
Sodium Aluminate	–	–	–		A	–	A	–		–	A		A	–	A	–		–	–	A	-		–	–	–
Sodium Bicarbonate	A	B	A		A	A	A	A		A	A		A	A	A	A		A	A	A	A		A	B	C
Sodium Bisulfate	A	B	A		A	–	A	A		A	A		A	A	A	A		A	A	A	A		A	B	D
Sodium Bisulfite	A	B	A		A	–	A	A		A	A		A	A	A	A		A	A	A	D		A	B	D
Sodium Borate	–	A	A		–	–	A	–		A	A		–	A	A	–		–	–	A	-		–	A	C
Sodium Carbonate	A	B	A		A	B	A	A		A	A		A	A	A	A		A	A	A	-		A	B	–
Sodium Chlorate	A	B	A		A	–	A	A		A	A		A	A	A	A		A	A	A	-		A	B	–
Sodium Chloride	A	B	A		A	C	A	A		A	A		A	A	A	A		A	A	A	A		A	B	–

Beständigkeitstabelle

Fluids	13 003 001 Polypropylene	13 003 001 Polyethylene	13 003 001 304 Stainless Steel		13 003 002 PPS	13 003 002 316 Stainless Steel	13 003 002 PTFE	13 003 002 PVDF		13 005 304 Stainless Steel	13 005 PTFE		13 064 001 PPS	13 064 001 304 Stainless Steel	13 064 001 PTFE	13 064 001 PVDF		13 064 Polypropylene	13 064 PVDF	13 064 PTFE	13 064 Phenolic		13 003 Polypropylene	13 003 Polyethylene	13 003 Steel
Sodium Chromate	A	–	A		A	A	A	–		A	A		A	A	A	–		A	–	A	D		A	–	–
Sodium Cyanide	A	B	A		A	–	A	A		A	A		A	A	A	A		A	A	A	A		A	B	–
Sodium Fluoride	–	C	C		–	–	A	–		C	A		–	C	A	–		–	–	A	-		–	C	D
Sodium Hydrosulfite	–	–	–		–	–	A	–		–	A		–	–	A	–		–	–	A	-		–	–	–
Sodium Hydroxide/Caustic Soda (20%)	A	B	A		A	A	A	A		A	A		A	A	A	A		A	A	A	C		A	B	–
Sodium Hydroxide/Caustic Soda (50%)	A	C	A		B	B	A	D		A	A		B	A	A	D		A	D	A	D		A	C	–
Sodium Hydroxide/Caustic Soda (80%)	A	C	A		B	D	A	–		A	A		B	A	A	–		A	–	A	D		A	C	C
Sodium Hypochlorite/Bleach3 (to 20%)	C	B	C		C	C	A	–		C	A		C	C	A	–		C	–	A	D		C	B	D
Sodium Hypochlorite/Bleach	C	–	–		C	D	A	A		–	A		C	–	A	A		C	A	A	-		C	–	D
Sodium Hyposulfate	–	–	A		–	A	A	–		A	A		–	A	A	–		–	–	A	-		–	–	–
Sodium Metaphosphate2	D	–	–		–	A	A	–		–	A		–	–	A	–		D	–	A	A		D	–	–
Sodium Metasilicate	–	–	–		–	A	A	–		–	A		–	–	A	–		–	–	A			–	–	C
Sodium Nitrate	A	B	A		–	A	A	A		A	A		–	A	A	A		A	A	A	A		A	B	–
Sodium Perborate	A	–	–		–	C	A	–		–	A		–	–	A	–		A	–	A	A		A	–	–
Sodium Peroxide	–	–	A		–	A	A	–		A	A		–	A	A	–		–	–	A	A		–	–	D
Sodium Polyphosphate (Mono, Di,Tribasic)	–	–	A		–	A	A	–		A	A		–	A	A	–		–	–	A	A		–	–	–
Sodium Silicate	A	–	A		–	B	A	–		A	A		–	A	A	–		A	–	A	A		A	–	–
Sodium Sulfate	A	B	A		A	A	A	–		A	A		A	A	A	–		A	–	A	A		A	B	–

Beständigkeitstabelle

Fluids	13 003 001 Polypropylene	13 003 001 Polyethylene	13 003 001 304 Stainless Steel		13 003 002 PPS	13 003 002 316 Stainless Steel	13 003 002 PTFE	13 003 002 PVDF		13 005 304 Stainless Steel	13 005 PTFE		13 064 001 PPS	13 064 001 304 Stainless Steel	13 064 001 PTFE	13 064 001 PVDF		13 064 Polypropylene	13 064 PVDF	13 064 PTFE	13 064 Phenolic		13 003 Polypropylene	13 003 Polyethylene	13 003 Steel
Sodium Sulfide	A	B	A		A	B	A	–		A	A		A	A	A	–		A	–	A	D		A	B	–
Sodium Sulfite	–	A	C		–	C	A	–		C	A		–	C	A	–		–	–	A	A		–	A	–
Sodium Tetraborate	–	–	–		–	A	–	–		–	–		–	–	–	–		–	–	–	-		–	–	–
Sodium Thiosulphate ("Hypo")	A	–	A		A	A	A	–		A	A		A	A	A	–		A	–	A	A		A	–	C
Sorghum	–	–	A		–	A	–	–		A	–		–	A	–	–		–	–	–	D		–	–	–
Soy Sauce	–	–	A		–	A	–	–		A	–		–	A	–	–		–	–	–	D		–	–	D
Stannic Chloride	A	B	D		–	D	A	A		D	A		–	D	A	A		A	A	A	-		A	B	D
Stannic Fluoborate	–	–	–		–	A	–	–		–	–		–	–	–	–		–	–	–	A		–	–	D
Stannous Chloride	–	A	D		–	C	A	–		D	A		–	D	A	–		–	–	A	-		–	A	D
Starch	–	B	A		–	A	A	–		A	A		–	A	A	–		–	–	A	A		–	B	C
Stearic Acid2	–	B	A		–	A	A	A		A	A		–	A	A	A		–	A	A	-		–	B	C
Stoddard Solvent	D	D	A		A	A	A	A		A	A		A	A	A	A		D	A	A	D		D	D	–
Styrene	–	–	A		–	A	A	–		A	A		–	A	A	–		–	–	A	-		–	–	–
Sugar (Liquids)	A	–	A		–	A	A	–		A	A		–	A	A	–		A	–	A	-		A	–	–
Sulfate Liquors	A	–	C		–	C	–	–		C	–		–	C	–	–		A	–	–	-		A	–	–
Sulfur Chloride	D	A	D		–	D	A	–		D	A		–	D	A	–		D	–	A	-		D	A	–
Sulfur Dioxide2	D	C	A		A	A	A	B		A	A		A	A	A	B		D	B	A	A		D	C	–
Sulfur Dioxide (dry)	–	D	A		–	A	A	–		A	A		–	A	A	–		–	–	A	-		–	D	–
Sulfur Trioxide (dry)	–	–	A		–	C	A	–		A	A		–	A	A	–		–	–	A	-		–	–	–

Beständigkeitstabelle

Fluids	13 003 001 Polypropylene	13 003 001 Polyethylene	13 003 001 304 Stainless Steel		13 003 002 PPS	13 003 002 316 Stainless Steel	13 003 002 PTFE	13 003 002 PVDF		13 005 304 Stainless Steel	13 005 PTFE		13 064 001 PPS	13 064 001 304 Stainless Steel	13 064 001 PTFE	13 064 001 PVDF		13 064 Polypropylene	13 064 PVDF	13 064 PTFE	13 064 Phenolic		13 003 Polypropylene	13 003 Polyethylene	13 003 Steel
Sulfuric Acid (to 10%)	A	B	D		A	C	A	A		D	A		A	D	A	A		A	A	A	D		A	B	D
Sulfuric Acid (10%-75%)2	A	C	D		B	D	A	A		D	A		B	D	A	A		A	A	A	D		A	C	D
Sulfuric Acid (75%-100%)	B	–	–		C	D	A	A		–	A		C	–	A	A		B	A	A	D		B	–	–
Sulfurous Acid	A	B	C		–	B	A	–		C	A		–	C	A	–		A	–	A	D		A	B	D
Sulfuryl Chloride	–	–	–		–	–	A	–		–	A		–	–	A	–		–	–	A	-		–	–	–
Syrup	A	–	A		–	A	–	–		A	–		–	A	–	–		A	–	–	-		A	–	–
Tallow	–	C	A		–	A	–	–		A	–		–	A	–	–		–	–	–	-		–	C	–
Tannic Acid	A	B	A		–	A	A	A		A	A		–	A	A	A		A	A	A	-		A	B	C
Tanning Liquors	A	–	A		–	A	A	–		A	A		–	A	A	–		A	–	A	C		A	–	–
Tartaric Acid	A	B	A		–	B	A	A		A	A		–	A	A	A		A	A	A	A		A	B	D
Tetrachlorethane	A	–	–		–	A	A	–		–	A		–	–	A	–		A	–	A	-		A	–	–
Tetrahydrofuran	C	D	A		A	A	A	D		A	A		A	A	A	D		C	D	A	-		C	D	D
Toluene, Toluol3	D	D	A		A	A	A	A		A	A		A	A	A	A		D	A	A	A		D	D	–
Tomato Juice	A	–	A		A	A	A	–		A	A		A	A	A	–		A	–	A	-		A	–	C
Trichlorethane	–	–	C		–	A	A	–		C	A		–	C	A	–		–	–	A	-		–	–	C
Trichlorethylene2	D	D	A		C	A	A	A		A	A		C	A	A	A		D	A	A	A		D	D	C
Trichloropropane	–	–	–		–	A	–	–		–	–		–	–	–	–		–	–	–	-		–	–	–
Tricresylphosphate	–	–	–		–	A	A	–		–	A		–	–	A	–		–	–	A	-		–	–	–
Triethylamine	–	–	–		–	–	–	–		–	–		–	–	–	–		–	–	–	-		–	–	–

Beständigkeitstabelle

Fluids	13 003 001 Polypropylene	13 003 001 Polyethylene	13 003 001 304 Stainless Steel	13 003 002 PPS	13 003 002 316 Stainless Steel	13 003 002 PTFE	13 003 002 PVDF	13 005 304 Stainless Steel	13 005 PTFE	13 064 001 PPS	13 064 001 304 Stainless Steel	13 064 001 PTFE	13 064 001 PVDF	13 064 Polypropylene	13 064 PVDF	13 064 PTFE	13 064 Phenolic	13 003 Polypropylene	13 003 Polyethylene	13 003 Steel
Turpentine3	B	D	A	A	A	A	A	A	A	A	A	A	A	B	A	A	-	B	D	–
Urine	A	B	A	–	A	–	–	A	–	–	A	–	–	A	–	–	A	A	B	–
Vegetable Juice	–	–	A	–	A	–	–	A	–	–	A	–	–	–	–	–	A	–	–	D
Vinegar	A	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	-	A	B	C
Varniah (Use Viton for Aromatic)	A	–	A	–	A	A	–	A	A	–	A	A	–	A	–	A	-	A	–	–
Water, Acid, Mine	A	–	A	B	A	–	–	A	–	B	A	–	–	A	–	–	-	A	–	C
Water, Distilled, Lab Grade	A	–	A	A	A	A	–	A	A	A	A	A	–	A	–	A	A	A	–	D
Water, Fresh	A	A	A	A	A	A	–	A	A	A	A	A	–	A	–	A	A	A	A	–
Water, Salt	A	–	A	A	A	–	–	A	–	A	A	–	–	A	–	–	A	A	–	D
Weed Killers	–	–	A	–	A	–	–	A	–	–	A	–	–	–	–	–	-	–	–	–
Whey	–	–	A	–	A	–	–	A	–	–	A	–	–	–	–	–	-	–	–	–
Whiskey and Wines	A	B	A	–	A	A	–	A	A	–	A	A	–	A	–	A	A	A	B	D
White Liquor (Pulp Mill)	A	–	A	–	A	A	–	A	A	–	A	A	–	A	–	A	A	A	–	C
White Water (Paper Mill)	A	–	A	–	A	–	–	A	–	–	A	–	–	A	–	–	-	A	–	–
Xylene2	D	D	A	A	A	A	A	A	A	A	A	A	A	D	A	A	A	D	D	–
Zinc Chloride	A	B	D	A	B	A	A	D	A	A	D	A	A	A	A	A	A	A	B	D
Zinc Hydrosulphite	–	–	–	A	A	–	–	–	–	A	–	–	–	–	–	–	A	–	–	D
Zinc Sulfate	A	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	B	C