

## CORROSION RESISTANCE TABLES FOR DIAPHRAGMS

Aggressive Substances	Cu alloy	Steel	Steel 1.4571	PTFE	Nickel	Monel	Hastelloy	Tantalum	Titanium
Abietic Acid	1	1	0	0	0	0	0	0	0
Acetanilide	0	0	0	0	0	0	0	0	0
Acetic acid	2	1	1	0	2	1	1	0	0
Acetic aldehyde	0	1	0	0	0	0	0	0	0
Acetonacetic ester		1	0	0	0	0	0	0	0
Acetoncyanhydrine		1			0	0	0	0	0
Acetone	0	0	0	0	0	0	0	0	0
Acetophenetidine	0	2	0	0	0	0	0	0	0
Acetophenone	0	0	0	0	0	0	0	0	0
Acetylacetone			0		0	0	0	0	0
Acetylcellulose	1	2	0	0	0	0	0	0	0
Acetylchloride	2	1	1	1	0	0	0	0	0
Acetylene [Cu < 65%]	0	0	0	0	0	0	0	0	0
Acetylsalicylic acid		2	0	0	0	0	0	0	0
Acetylthiopropene		1	0					0	0
Acid blends	2	1	1	0	2	2	2	0	1
Acid pit water			0		2	2			
Acid sodium sulphate			0	0					
Acridine		0	0				0	0	
Acroleine	0	0	0	0	1	1	0	0	0
Acrylic acid ethyl ester				0					
Acrylic silicate	0	0	0	0	0	0	0		
Acrylonitrile	0	0	0	0	0	0	0	0	0
Adipic acid		0	0	0	0	0	0	0	
Aktivin (chloramines T)			0						
Alcane-sulfonic acid	2	2	0	0		1	0	0	
Alcoholic Beverages	0	2	0	0	0	0	0	0	0
Alizarine		0	0	0	0	0	0	0	
Alkyd resins	0	1	0	0	0	0	0	0	0
Alkylaryl-sulfonates	0	0	0	0	0	0	0	0	0
Alkylation		0	0		0	0			
Alkylchloride ether		1			1	1	0	0	
Alkylnaphthalinesulphonic acid		1				0	0	0	
Allyl amine	2	0	0	0				0	
Allyl chloride	0	0	0	1	0	0	0	0	
Allyl sulphide	1	0	0						
Allylic alcohol	1	0	0	0	0	0	0	0	0
Aloe		2	0		0	0	0	0	
Aluminium acetate		2	0		0	0	0	0	0

### Code

0 = Good Corrosion Resistance

1 = Corrosion Occurring, but material may be used in certain cases

2 = No Corrosion Resistance

No Code = Data Unavailable

Final selection of material is the responsibility of the user

## CORROSION RESISTANCE TABLES FOR DIAPHRAGMS (CONTINUED)

Aggressive Substances	Cu alloy	Steel	Steel 1.4571	PTFE	Nickel	Monel	Hastelloy	Tantalum	Titanium
Aluminium alkyle			0	0		0	0	0	
Aluminium chlorate			0	0	0	0	0	0	
Aluminium chloride	2	1	1	0	1	1	0	0	1
Aluminium ethylate		0	0		0	0	0	0	
Aluminium fluoride		1		0	0	0	0		
Aluminium formiate		1	0	0	0	0	0	0	0
Aluminium melts	2	0	2	2	2	2			
Aluminium nitrate		2	0	0	0	0	0		0
Aluminium oxide & hydroxide	0	0	0	0	0	0	0	0	0
Aluminium salts				0					
Aluminium silicofluoride	0	2	0		0	0	0		
Aluminium sulphate	2	2	1	0	2	1	0	0	0
Amines & amination	2	1	0	0	0	0	0	0	
Amino acid blends		2	0		0	0	0	0	
2-aminoanthracinone		0	0		0	0	0		
p-aminobenzene		1		0	1		0	0	
m-aminobenzenesulphonic acid		0	0	0	0	0	0	0	
p-aminobenzenesulphonic acid		0	0	0	0	0	0	0	
Aminobenzonic acid		0	0	0	0	0	0	0	0
5-amino-2-oxybenzoic acid		0	0	0	0	0	0	0	
m-aminophenole		0	0		0	0	0	0	
c- & p-aminophenole		0	0		0	0	0	0	
Aminoplastics	0	1	0	0	0	0	0	0	
2-aminopyridine	1	1	0		0	0	0		
p-aminosalicyclic acid		1	0	0	0	0	0	0	
Ammoniac-ammonium hydroxide	1	0	0	0	1	1	0	1	0
Ammonium acetate		1	0		0	0	0		
Ammonium alum			1						
Ammonium bicarbonate	2	0	0	0	2	2			
Ammonium bromide		1	0	0	0	0	0	0	
Ammonium carbonate			0	0	0				
Ammonium carbonate-,carbonat	2	1	0	0	2	0		0	
Ammonium chloride	2	1	0	0	0	0	0	0	0
Ammonium citrate		1	0	0	0	0	0	0	0
Ammonium difluoride			0		1	1			
Ammonium diphosphate	1	1	0	0	0	0	0	0	0
Ammonium disulphite		1	0	0	0	0	0	0	
Ammonium flouride	1	1	1	1	1	1			
Ammonium fluorsilicate		1	0		0	0	0		

## Code

0 = Good Corrosion Resistance

1 = Corrosion Occurring, but material may be used in certain cases

2 = No Corrosion Resistance

No Code = Data Unavailable

Final selection of material is the responsibility of the user

## CORROSION RESISTANCE TABLES FOR DIAPHRAGMS (CONTINUED)

Aggressive Substances	Cu alloy	Steel	Steel 1.4571	PTFE	Nickel	Monel	Hastelloy	Tantalum	Titanium
Ammonium formiate		1	0	0	0	0	0	0	0
Ammonium molybdate		0	0	0					
Ammonium monophosphate	1	1	0	0	0	0	0	0	
Ammonium nitrate	2	1	0	0	2	2	0	0	0
Ammonium oxalate		1	0		0	0		0	
Ammonium perchlorate		1	0				0	0	
Ammonium persulphate	2	2	1					0	
Ammonium phosphate				0	1	1		0	
Ammonium picrate		1	0		0	0	0		
Ammonium rhodanide	2	1	0	0	0	0	0		
Ammonium sulphaminat	0	0	0	0	0	0	0	0	0
Ammonium sulphate	2	1	0	0	0	0	0	0	0
Ammonium (poly)-sulphide	2	1	0	0	0	0	0		
Ammonium sulphite		1	0	0	2	2	1	0	
Ammonium tungstate		0	0	0	2	2			
Amyl acetate	0	1	0	1	0	0	0	0	0
Amyl alcohol	0	1	0	0	0	0	0	0	0
Amyl amine	2	1	0	0	0	0	0		
Amyl borate				0					
Amyl chloride	0*	1	1		0	1	0	0	
Amyl laurate	0	0	0	0	0	0	0	0	0
Amyl mercaptane		1	0		0	0	0		
Amyl nitrate		0	0						
Amyl nitrite		0	0						
p-amyl phenole	0	1	0		0	0	0	0	0
Amyl propionate	0	1	0		0	0	0	0	0
Aniline	1	1	0	0	1	1	1	0	0
Aniline black	0	1	0	0	0	0	0		
Aniline hydrochloride	2	2		0	2	2	0		
Aniline sulphate		2	0	0	0	0	0		
Aniline sulphite	1	1	0	0			0		
Anis aldehyde	0	1	0	0	0	0	0	0	0
Anisidine	0	1	0	0	0	0	0	0	0
Anis oil	0	1	0	0	0	0	0	0	0
Anisol	0	0	0	0	0	0	0	0	0
Anthracene, oil	0	0	0	0	0	0	0	0	0
Antimony chloride		2	2		0	0	0	0	
Antimony melt			2	2					
Antrachinone	0	0	0		0	0	0	0	

### Code

0 = Good Corrosion Resistance

1 = Corrosion Occurring, but material may be used in certain cases

2 = No Corrosion Resistance

No Code = Data Unavailable

Final selection of material is the responsibility of the user

\*without water

## CORROSION RESISTANCE TABLES FOR DIAPHRAGMS (CONTINUED)

Aggressive Substances	Cu alloy	Steel	Steel 1.4571	PTFE	Nickel	Monel	Hastelloy	Tantalum	Titanium
Antrachinonesulphone acids		1	0	0	0	0	0	0	0
Apple juice, - pulp	2	2	0	0	0	0	0	0	
Aqua regia	2	2	2	0	2	2	2	0	0
Aquasal sol.				0					
Arachic acid	1	1	0	0	0	0	0	0	
Aralene		1	0	0	0	0	0	0	0
Argon	0	0	0	0	0	0	0	0	0
Arsenic		1	0		1				
Arsenic acid, pentoxide	1	1	0	0	1	1	0	0	
Arsenous acids	2	2	0	0	0	0	0	0	
Arsenous chloride	2	1			0	0	0	0	
Arsenic trioxide		0	0	0	0	0	0		
Asordine				0					
Aspartic acid	2	0	0	0			0	0	
Asphalt	1	1	0		0	0	0		
ASTM oil 1,2,3					0				
Atmosphere (air)	0	1	0	0	0	0	0	0	0
Azobenzene	0	0	0	0	0	0	0	0	0
Azo yellow	1	2	0						
Bacitracine		2	0				0		
Baking powder	1	1	0	0	0	0	0	0	0
Barium carbonate	0	1	0	0					
Barium chlorate	0	1	0	0	0	0	0	0	
Barium chloride	2	1	0	0	1	1	0	0	0
Barium cyanide	2	0	0	0	0	2		2	
Barium hydroxide	0	0	0	0	0	0	0	0	
Barium nitrate	1	1	0	0	0		0		
Barium oxide		1	0			0	0		
Barium peroxide	2	1	1	0	1	1		2	
Barium salts				0					
Barium sulphate	0	0	0	0	0	0	0	0	0
Barium (poly)-sulphide	1	1	0	0	1	0		2	
Basileum FG (TM)				0					
Batoxin (TM)				0					
Battery acid				0					
Beer	0	2	0	0	0	0	0	0	0
Bees' wax	0	1	0	0	0	0	0	0	0
Beer wort	0	0	0	0	0	0	0	0	0
Benzaldehyde	1	1	0	0	1	1	0	0	

## Code

0 = Good Corrosion Resistance

1 = Corrosion Occurring, but material may be used in certain cases

2 = No Corrosion Resistance

No Code = Data Unavailable

Final selection of material is the responsibility of the user

## CORROSION RESISTANCE TABLES FOR DIAPHRAGMS (CONTINUED)

Aggressive Substances	Cu alloy	Steel	Steel 1.4571	PTFE	Nickel	Monel	Hastelloy	Tantalum	Titanium
1,2,4-benzaldehyde disulphonic acid		0	0	0	0	0	0	0	
Benzamide	2	1	0	0	0	0	0	0	0
Benzanthrene	0	0	0	0	0	0	0	0	
Benzene	0	1	0	0	0	0	0	0	0
Benzene	1	1	0	0	0	0	0	0	0
Benzene-1.3-disulphonic acid		1	0			0	0	0	
Benzene peroxide			0		0	0	0		
Benzene-sulphonic acid		1	0	0	1	0	0	0	
Benzidine	0	0	0	0	0	0	0	0	0
2.2-benzidine disulphonic acid	0	0	0	0	0	0	0		
Benzidine-3-sulphonic acid	0	0	0	0	0	0	0	0	0
Benzile	0	0	0	0	0	0	0	0	0
Benzilic acid	1	1	0	0	0	0	0		
Benzoic acid	1	1	0	0	0	1	0	0	0
Benzoic acid anhydride	0	2	0	0	0	0	0		
2-(4-benzylechloride)-benzoic acid	0	1	0	0	0	0	0	0	0
Benzoic acid sulphimide		1	0		0	0	0	0	
Benzoine		0	0		0	0	0		
Benzonitrile	0	0	0	0	0	0	0	0	0
1.4-benzoquinone		1	0		0	0	0		
Benzotrichloride		1		2	0	0	0		
Benzotrifluoride		0	0		0	0	0		
o-benzoylbenzoic acid	0	0	0	0	0	0	0	0	
Benzyl chloride		1		0	1	1	0	0	
Benzyl acetate		1	0		0	0	0	0	
Benzyl alcohol	0	1	0	0	0	0	0	0	
Benzyl amine		0	0		0	0	0		
Benzyl benzoate	0	0	0		0	0	0	0	
Benzyl butylphtalate	0	0	0	0	0	0	0	0	0
Benzyl cellulose		0	0	0	0	0	0	0	
Benzyl chloide	0	2	0		0	0	0	0	
Benzyl ethylaniline	0	0	0	0	0	0	0	0	0
Benzyl phenol	0	1	0		0	0	0	0	
Benzyl salicylate	0	1	0	0	0	0	0	0	0
Benzyl sulphanyl acid	0	1	0	0	0	0	0	0	0
Bergamot oil	1	1	0		0	0	0	0	
Beryllium chloride		1	1	0	1	1	0	0	
Beryllium fluoride	0	1	0		0	0	0		
Beryllium sulphate			0	0	0	0	0	0	

### Code

**0** = Good Corrosion Resistance

**1** = Corrosion Occurring, but material may be used in certain cases

**2** = No Corrosion Resistance

**No Code** = Data Unavailable

**Final selection of material is the responsibility of the user**

## CORROSION RESISTANCE TABLES FOR DIAPHRAGMS (CONTINUED)

Aggressive Substances	Cu alloy	Steel	Steel 1.4571	PTFE	Nickel	Monel	Hastelloy	Tantalum	Titanium
Bitumen		1	0	0	0	0	0		
Black iron ink			0						
Black ive				0					
Bleaching liquid	2							0	
Blood	0	2	0	0	0	0	0	0	0
Borax	0		0	0					
Bordeaux liquor	1	1	0	0	0	0	0		
Boric acid	1	1	1	0	1	1	0	1	0
Borneol	0	2	0		0	0	0	0	0
Bornyl acetate	0	1	0		0	0	0	0	
Bornyl chloride	0				0	0	0	0	
Bornyl formiate			0		0	0	0	0	
Boron phosphate	1	1			2	2	2		
Boron trifluoride		1	0	0		0			
Brackish water	1	1			1	1			
Brake fluid	0	0	0	0	0	0	0	0	0
Brandy	1	1	0						
'Brindi' acid conc.				0					
Bromic acid	2	2	2		2	2			
Bromine	1	1	2	2*	1	1	1	0	2
Bromine trifluoride		0	0		0	0		2	
Bromobenzene	0	1	0	0	0	0	0	0	0
Bromoform		1	0		0	0	0	0	
1.3-butadiene		1	0	0					
Butane	1	1	0	0	0	0	0		
Butane diol	0	1	0	0	0	0	0	0	
1.4-butine-2-diol	0	1	0	0	0	0	0	0	0
Butter	2	2	0	0				0	0
Buttermilk	1	2	0	0	1	1		0	
Butyl acetate	1	1	0	1	1	1	0	0	0
Butyl alcohol	0	1	0	0	0	0	0	0	0
Butylamine	2	1	0		0	0	0		
Butyl benzoate	0	0	0	0	0	0	0		
Butyl butyrate		1	0		0	0	0	0	
Butyl chloride		1	1		0	0	0	0	
Butylene	0	1	0	0	0	0	0	0	0
1.4-butylen-2-diol	0	0	0	0	0	0	0	0	0
n-butyl ether	0	0	0	0	0	0	0	0	0
Butyl glycolate	0	1	0	0	0	0	0	0	0

## Code

0 = Good Corrosion Resistance

1 = Corrosion Occurring, but material may be used in certain cases

2 = No Corrosion Resistance

No Code = Data Unavailable

Final selection of material is the responsibility of the user

\* PTFE diaphragm not attacked, but is porous to Bromine - DO NOT USE

## CORROSION RESISTANCE TABLES FOR DIAPHRAGMS (CONTINUED)

Aggressive Substances	Cu alloy	Steel	Steel 1.4571	PTFE	Nickel	Monel	Hastelloy	Tantalum	Titanium
n-butyl glycol	0	0	0	0	0	0	0	0	0
Butyl mercaptane	2	1	0		0	0	0		
Butyl oxalate	0	1	0	0	0	0	0	0	
Butyl phenol (tertiary)	0	1	0		0	0	0		
Iso-butyl phosphate	0	1	0		0	0	0	0	
Butyl phthalate		1	0		0	0	0	0	
Butyl stearate	1	1	0	0	0	0	0	0	0
Butyl urethane		0	0		0	0	0	0	
Butylaldehyde	0	1	0	0	0	0	0	0	0
Butyric acid	1	2	0	0	2	1	0	0	0
n-butyric acid anhydride		1	0		0	0	0	0	
Butyric acid chloride		1		1	0	0	0		
γ-butyrolactone	0	1	0		0	0	0	0	0
Cadmium chloride		2	0	0	1		0	0	
Cadmium cyanide		2		0	2				
Cadmium melts	2	0	1	2					
Cadmium sulphate	0	1	0	0	0	0	0	0	
Caffeine	0	1	0	0	0	0	0	0	0
Calcium		0	0						
Calcium acetate	0	1	0	0	0	0	0	0	0
Calcium arseniate	0	0	0						
Calcium benzoate	0	1	0	0	0	0	0	0	0
Calcium bicarbonate	0	1	0	0	0	0	0	0	0
Calcium bisulphite	2	2	0	0	2	2	0	0	0
Calcium bromide	1	1	1	0	1	1	0	0	0
Calcium carbonate	0	1	0	0	0	0	0	0	0
Calcium chlorate	0	1	0	0	1	0	0		0
Calcium chloride	2	1	1	0	0	0	0	0	0
Calcium chromate	0	0	0	0	0	0	0		
Calcium fluoride	0	0	0	0	0	0	0	2	
Calcium gluconate	0	0	0	0	0	0	0	0	0
Calcium hydride	0	0	0		0	0	0		
Calcium hydroxide	0	0	0	0	0	0	0	0	
Calcium hypochloride (+calcium chloride)	2	1	1		1	1		0	0
Calcium lactate		1	0	0	0	0	0	0	0
Calcium nitrate	0	1	1	0	1	0	0		0
Calcium oxalate	0	1	0	0	0	0	0	0	
Calcium oxide	0	0	0		0	0	0		
Calcium permanganate		1	0	0	0	0	0		0

### Code

0 = Good Corrosion Resistance

1 = Corrosion Occurring, but material may be used in certain cases

2 = No Corrosion Resistance

No Code = Data Unavailable

Final selection of material is the responsibility of the user

## CORROSION RESISTANCE TABLES FOR DIAPHRAGMS (CONTINUED)

Aggressive Substances	Cu alloy	Steel	Steel 1.4571	PTFE	Nickel	Monel	Hastelloy	Tantalum	Titanium
Calcium peroxide		1	0	0					
Calcium phosphate	0	1	0	0	0	0	0	0	0
Calcium rhodanide	0	1	1	0	0	0	0		
Calcium stearate	0	1	0	0	0	0	0	0	0
Calcium sulphaminat		0	0	0	0	0	0	0	0
Calcium sulphate	0	1	0	0	0	0	0	0	0
Calcium sulphide	2	0	0	0	1				
Calcium sulphite	1	1	0	0	1	1		0	0
Calcium tungstate			0	0	0	0	0		
Camphene	0	0	0	0	0	0	0	0	0
Camphor	0	0	0	0	0	0	0	0	0
Camphoric acid	0	2	0	0	0	0	0	0	0
d-camphor sulphonic acid		1	1	0	1	1	0	0	
n-capric acid	1	1	0	0	1	1	0	0	0
E-caprolactame		1	0		0	0	0		
Capronic acid	1	1	0	0	1	1	0	0	0
Capronic aldehyde	0	1	0	0	0	0	0	0	0
Caprylic acid	1	0	0	1	1	0	0	0	
Caprylic alcohol	0	1	0	0	0	0	0	0	0
Capsaicin (TM)		1	0		0	0	0		
Carbazole		0	0		0	0	0	0	0
Carbitol	0	0	0	0	0	0	0	0	0
Cabolic acid	1		0	0	1	1	0	0	0
Carbolineum	0	0	0	0	0	0	0	0	0
Carbon dioxide	1	1	0	0	1	1	0	1	1
Carbonized mass		2		0		0	0		
Carbon monoxide	1	1	0	0	1	1	0	1	1
Carbon sulphide	1	0	0	0	0	1	0	0	0
Carbon tetrachloride	1	1	0	0	0	0	0		0
N-(4carboxyphenyl)-y-acid			0	0	0	0	0		0
Carnallite	1	1	0	0	0	0	0	0	0
Caro acid		2		0				0	
Carotene	0	0	0	0	0	0	0	0	0
Cascara	0	1	0	0	1				
Caseine			0	0	0	0	0	0	0
Cashew	0	1	0	0					0
Castor oil	0	1		0					
Cavit		2	0		0	0	0	0	0
Cesium chloride		1	1		0	0	0		

## Code

0 = Good Corrosion Resistance

1 = Corrosion Occurring, but material may be used in certain cases

2 = No Corrosion Resistance

No Code = Data Unavailable

Final selection of material is the responsibility of the user

## CORROSION RESISTANCE TABLES FOR DIAPHRAGMS (CONTINUED)

Aggressive Substances	Cu alloy	Steel	Steel 1.4571	PTFE	Nickel	Monel	Hastelloy	Tantalum	Titanium
Cesium hydroxide		1	1		1	1			
Celluloid	0	1	0	0	0	0	0	0	0
Cellulose acetobutyrate	0	1	0		0	0	0	0	0
Cellulose ether		1	0	0					
Cellulose nitrate	0	1	0		0	0	0		
Cellulose paints	1	1	0	0	0	0	0	0	0
Cellulose tripropionate	0	1	0		0	0	0	0	0
Ceresine	0	0	0	0	0	0	0	0	0
Cerium chloride		1		0	0			0	
Cerium fluoride		1		0				0	
Cerium sulphate		1		0	0				
Cetylic alcohol	0	1	0		0	0	0	0	0
Chaulmooga acid	1	1	0	0	0	0	0		
Cheese			0						
Chloracetic acid	2	1	1	0	1	1	1	0	0
Chloramine	0	1	0	0	0	0	0		
Chloraminebenzoic acid		1	0	0	0	0	0	0	0
Chloramphenicol		2	0	0	0			0	0
Chloranile	0	0	0	0	0	0		0	0
Chloraniline	1	1	0		0	0		0	0
Chloranthraquinone		0	0		0	0	0	0	
Chlordane	1	1	0		0	0	0		
Chlorhydrine	1	1	0	0	0	0	0	0	
Chloric acid	2	2	2	0	2	2		0	
Chlorinated water			1	0					
Chlorine	1	1	1	2*	1	1	1	0	1
Chlorine alum				0					
Chlorine cresol	0	1	0		0		0	0	
Chlorine dioxide		1	1	0		0	2	0	
Chlorine diphenyl	0	0	0		0	0	0	0	
Chlorobenzene	0	1	0	0	0	1	0	0	0
Chlorobenzenetrifluoride		0	0		0	0	0		
Chlorobenzoic aldehyde		1	0	0	0	0	0	0	
Chloroethenebenzene		1	1		0	0	0	0	
Chloroform	1	1	0	0	0	0	0	0	0
Chloroformic acid ester	0	1						0	
4-chloro-2-nitraline		1	0		0	0	0		
Chloronitrobenzenes	1	0	0		0	0	0	0	0
4-chloronitrobenzene-3-sulphonic acid		1	0	0	1	0	0	0	

### Code

0 = Good Corrosion Resistance

1 = Corrosion Occurring, but material may be used in certain cases

2 = No Corrosion Resistance

No Code = Data Unavailable

Final selection of material is the responsibility of the user

\* PTFE diaphragm not attacked, but is porous to Chlorine - DO NOT USE

## CORROSION RESISTANCE TABLES FOR DIAPHRAGMS (CONTINUED)

Aggressive Substances	Cu alloy	Steel	Steel 1.4571	PTFE	Nickel	Monel	Hastelloy	Tantalum	Titanium
Chloronitrobenzoic acid		1	0	0	0	0	0	0	0
4-chloro-2-nitrophenol		1	0		0	0	0		
Chlorophenol	0	1	0		0	0	0	0	
Chlorophenoxyacetic acid		1	0	0	0	0	0	0	
Chlorophyll, Chlorophylline	0	0	0	0	0	0	0	0	0
Chloropikrine	1	0	0		0	0	0	0	
Chloroprene		1	0		0	0	0		
Chlorosilane		0	0		0	0	0	0	
Chlorosulphonic acid		1	1	0	1	1	0	0	0
Chlorotoluene	0	0	0	0	0	0	0	0	0
Chlorotoluidine	1	1	0		0	0	0		
Chlorotrifluoroethylene	0	1	0	2	0	0	0		
Chloroxylene	0	1	0		0	0	0	0	
Chocolate			0						
Cholesterin	0	0	0	0	0	0	0	0	0
Choline	2	1	0	0					
Choline chloride	2	1					0		
Chromic acid, oxide	2	1	0	0	2	2	2	0	0
Chromium alum	1	2	1	0	1	1	0	0	0
Chromium baths (galvanic)				0					
Chromium chloride		2	1	0	1		0	0	
Chromium fluoride	2	2				0		0	
Chromium glucosate		0	0		0	0		0	0
Chromium nitrate			0	0					0
Chromium oxide, hydroxide	0	0	0	0	0	0	0	0	0
Chromium phosphate		1	0	0	0	0	0	0	
Chromium sulphate	1	2	1	0	1	1	0	0	
Chromyl chloride		0	0		0	0	0	0	0
Cider	1	2	0	0	0	0	0	0	
Citral	0	1	0	0	0	0	0	0	0
Citric acid	2	2	0		0	1		0	
Citronellal	0	1	0		0	0	0	0	0
Citronellol	0	1	0	0	0	0	0	0	0
Citrus fruit	1	2	0	0	1	1	0	0	0
Citrus oil	0	1	0	0	0	0	0	0	0
City gas	1	0	0	0	1	1	0	0	0
Clophene				0					
Clupanadioc acid	1	2	0	0	1	0	0	0	0
Cocaine	0	1	0	0	0	0	0	0	

## Code

0 = Good Corrosion Resistance

1 = Corrosion Occurring, but material may be used in certain cases

2 = No Corrosion Resistance

No Code = Data Unavailable

Final selection of material is the responsibility of the user

## CORROSION RESISTANCE TABLES FOR DIAPHRAGMS (CONTINUED)

Aggressive Substances	Cu alloy	Steel	Steel 1.4571	PTFE	Nickel	Monel	Hastelloy	Tantalum	Titanium
Codeine	0	2	0	0				0	
Codein salts	0	2	1	0	0	0	0	0	
Cod-liver oil	1	1	0	0	0	0	0	0	0
Coffee	0		0		0	0			
Colza oil				0					
Concrete	0	1	0	0	0	0	0	0	
Coniferytic alcohol	0	1	0	0	0	0	0	0	0
Copal	0	1	0		0	0	0	0	0
Copper acetate	1	1	0	0	0	0	0	0	
Copper carbonate	1	1	0	0	0	0	0	0	0
Copper chloride	2	1	2	0	1	1	2	0	0
Copper cyanide			0						
Copper nitrate	2		0						
Copper oxide	1	1	0		0	0			
Copper sulphate	2	1	0	0	1	1	1	0	0
Copper tetramine compound	2	1	1	0	0	0	0	0	
Corn oil				0					
Cortex cascarae sagradae	1	2	0		0	0	0		
Cotton seed oil	2	1	0	0	0	0	0		
Creosote	1		0	0					
Cresol	0	1	0	0	0	1	0	0	0
Croton aldehyde	0	1	0	0	0	0	0	0	
Crotonic acid	0	2	0		0	0	0	0	0
Cumaric aldehyde			0	0	0	0	0	0	0
Cumarine			0		1	2		0	0
Cumarone, resin	0	0	0	0	0	0	0	0	0
Cumene	0	1	0	0	0	0	0	0	0
Cumohydroperoxide	2	0	0		0	0	0	0	
Cyanacetic acid	2	1	1	0				0	0
Cyanacetic acid ethyl ester	0	1	0	0	0	0	0	0	
Cyan amide		0	0	0	0	0	0		0
Cyanic chloride		2	0		0	0		0	
Cyanogen chloride		1	0	0	0	0	0	0	
Cyanogen, Dicyanogen		1	0	0				0	
Cyclohexane	0	0	0	0	0	0	0	0	0
Cyclohexanol	0	0	0	0	0	0	0	0	0
Cyclohexanol ester	0	1	0	0	0	0	0	0	0
Cyclohexanone	1	1	0	0	0	0	0	0	0
Cyclohexanone oxime		1	0	0				0	0

### Code

0 = Good Corrosion Resistance

1 = Corrosion Occurring, but material may be used in certain cases

2 = No Corrosion Resistance

No Code = Data Unavailable

Final selection of material is the responsibility of the user

## CORROSION RESISTANCE TABLES FOR DIAPHRAGMS (CONTINUED)

Aggressive Substances	Cu alloy	Steel	Steel 1.4571	PTFE	Nickel	Monel	Hastelloy	Tantalum	Titanium
Cyclohexene	0	1	0	0	0	0	0	0	0
Cyclohexylamine	2	0	0	0	1	1	0	0	0
Cyclohexylamine carbonate	1	0	0						
Cyclohexylaminelaurate		0	0		0	0	0	0	0
Cyclopentane, Cyclopentadiene	0	0	0		0	0	0	0	0
Cyclopolyolefins			0	0					
p-cymol	0	1	0	0	0	0	0	0	0
Cynacetamide		0	0						
Cystine	1	1	0	0				0	0
DDD		1	0		0	0	0	0	0
DDT, and DFDT	1	1	0		0	1	0	0	0
Dekalin (TM)				0					
Delegol (TM)				0					
Desmodur T (TM)				0					
Desmophen 2000 (TM)				0					
Deuterium oxide	0	0	0		0	0	0		0
Developer (phot.)			0						
Dextrane			0	0		0	0	0	0
Dextrine	0	0	0	0	0	0	0	0	0
Dextrose	0	1	0	0	0	0	0	0	0
Diacetone alcohol				0					
Dialkyl sulphate	0	1	0	0	0	0	0	0	0
Diazo compounds		1	1	0				0	
Dibenzyle	0	0	0	0	0	0	0	0	0
Dibenzylether				0					
Dibutylmethylenedithioglucolate			0					0	0
Dibuthylphthalate	0	0	0	0	0	0	0	0	0
Dibuthylthiodigluconate			0					0	0
Dibuthylthiourea		0	0						0
Dichlorobenzene				0					
Dichlorobutylene				0					
Dichloroethane				0	0	0			
Dichloroethylene	0	1	0	0	0	0	0	0	0
Di(p-chlorophenyle) methacarinole	0	0	0	0	0	0	0	0	0
Dicyclohexyleammoniumnitrite	1	0	0	0	0				
Diethyl amine	2	1	0	0	1	1		1	0
Diethyl aniline, & dimethyl aniline	1	1	0	0	0	0	0	0	0
Diethylene glycol				0					
Diethyl ether				0					

## Code

0 = Good Corrosion Resistance

1 = Corrosion Occurring, but material may be used in certain cases

2 = No Corrosion Resistance

No Code = Data Unavailable

Final selection of material is the responsibility of the user

## CORROSION RESISTANCE TABLES FOR DIAPHRAGMS (CONTINUED)

Aggressive Substances	Cu alloy	Steel	Steel 1.4571	PTFE	Nickel	Monel	Hastelloy	Tantalum	Titanium
Diethyl sebacate				0					
Diglycolic acid		1	1	0	1	1	0	0	0
Diglycolic acid dibuthylester	0	1	1	0	0	0	0	0	0
Dilsobutyle	0	0	0	0	0	0	0	0	0
Disopropylectone				0					
Dimethyl aniline				0					
Dimethylphenylcarbinole	0	0	0		0	0		0	0
Dimethyl ether	0	0	0	0	0	0	0	0	0
Dimethylformamide				0					
Diocylphthalate				0					
Dioxane	0	0	0	0	0	0	0	0	0
Dipentene				0					
Diphenyl	0	0	0	0	0	0	0	0	0
Dipenyl amine	1	0	0		0	0	0	0	0
Diphenylene oxide	0	0	0	0	0	0	0	0	0
Diphenylketone	0	0	0	0	0	0	0	0	0
Diphenyl propane	0	0	0	0	0	0	0	0	0
Dipydoxidiphenyle sulphone		0	0						
DMDT		1	0		0	0	0	0	0
Drilling oil	0	0	0	0	0				
Dye bath			0						
Eggs, egg powder		0	0		0	0		0	
Enamels	0	1	0	0					
Essential oils	1	1	0	0	0	0	0	0	0
Ethane	0	0	0	0	0	0	0	0	0
Ethanol	0	0	0	0	0	0	0	0	0
Ethanolamine		0	0					0	0
Ether				0					
Ethyl acetate	0	0	0	1	1	1	0	0	0
Ethyl acrylate				0					
Ethyl benzene	0	0	0	0	0	0	0	0	0
Ethylbutyrate	0	0	0	0	0	0	0	0	0
Ethyl cellulose			0	0	1	1	0	0	0
Ethyl chloride	0	1	0	0	0	0	0	0	0
Ethyl ether	0	1	0	0	0	0	0	0	0
Ethyl glycol	0	0	0	0	0	0	0	0	0
Ethyl lactate	0	0	0	0	0	0	0	0	0
Ethylene	0	0	0	0	0	0	0	0	0
Ethylene bromide	1	1	0	0	0	0	0	0	0

### Code

**0** = Good Corrosion Resistance

**1** = Corrosion Occurring, but material may be used in certain cases

**2** = No Corrosion Resistance

**No Code** = Data Unavailable

**Final selection of material is the responsibility of the user**

## CORROSION RESISTANCE TABLES FOR DIAPHRAGMS (CONTINUED)

Aggressive Substances	Cu alloy	Steel	Steel 1.4571	PTFE	Nickel	Monel	Hastelloy	Tantalum	Titanium
Ethylenechlorhydrine	0	0	0	0	0	0	0	0	0
Ethylen chloride		0	0	1	0	0	0	0	0
Ethylenecyanhydrine		0	0		0	0	0	0	0
Ethylenediamine		1	0				1	0	
Ethylenedichloride				0					
Ethyleneformiate	0	1	0	0	0	0	0	0	0
Ethyleneglycol		1	0	0	1	1			
Ethyleneimine		0	0						
Ethylenemercaptane		1	0		1		0		
Ethyl nitrite		0	0						
Ethyleneoxide	0	0	0	0	0	0	0	0	0
Ethyl silicate				0					
Ethyl stearate	0	0	0	0	0	0	0	0	0
Ethyl sulphuric acid		2					0	0	
Eukalin (TM)				0					
Extremely pure water	0	1	0	0	0	0	0	0	0
Fatty acids	1	1	0	0	0	0	0	0	0
Fatty alcohol	0	1	0	0	0	0	0	0	0
Fatty alcohol sulphates	2	1	0	0	0	0	0	0	0
Fats & Waxes	1	1	0	0	0	0	0	0	0
Ferric chloride	2	1	2	0	2	2	2	0	0
Ferric potassium cyanide	0	1	1	0	0	0	0	0	0
Ferric sulphate	2	1	0	0	2	2	2	0	0
Ferrous chloride	2	1	1	0	1	1	0	0	0
Ferrous potassium cyanide		0	0	0	0	0	0	0	0
Ferrous sulphate	2	1	0	0	0	0	0	0	0
Fish oil				0					
Fixing salts			0						
Fluorbenzene				0					
Fluoric acid	1	1	2	0	1	1	1	2	2
Fluorhydrocarbon	0	0	0	2	0	0	0	1	1
Fluorine	1	1	1	1	1	1		2	1
Fluoroboric acid				0					
Fluorocarbon	0	1	1	0	0	0	0		
Fluorocarbonic acids & halogen		1	1	0	1	1	0	1	
Fluorochlorocarbon	0	1	1	0	0	0	0		
Formaldehyde, formaline & metaldehyde	1	1	0	0	0	0	0	0	0
Formamide		1	0	0	1	0	0	0	0
Formic acid	2	2	0	0	1	1	0	0	0

## Code

0 = Good Corrosion Resistance

1 = Corrosion Occurring, but material may be used in certain cases

2 = No Corrosion Resistance

No Code = Data Unavailable

Final selection of material is the responsibility of the user

## CORROSION RESISTANCE TABLES FOR DIAPHRAGMS (CONTINUED)

Aggressive Substances	Cu alloy	Steel	Steel 1.4571	PTFE	Nickel	Monel	Hastelloy	Tantalum	Titanium
Freon (TM)	0		0						
Fruit			0						
Fruit juices	2		0	0					
Furane				0					
Furfurol	1	1	1	0	1	1	0	0	0
Gallic acid			0						
Gelatin	1	1	0	0	0	0	0	0	0
Generator gas				0					
Genodyn (TM)				0					
Glacial acetic anhydride	2	1	0	0					
Glacial acetobromic acid				0					
Gluconic acid	0	1	0	0	0	0	0	0	0
Glucose				0	0	0			
Glue	1	1	0	0					
Glutamic acid	2	1	0	0	1	0		0	0
Glycerine	1	1	0	0	0	0	0	0	0
Glycol acid	1	1	1	0	1	1	0	0	0
Glycol, diethyleneglycol	1	1	0	0	0	0	0	0	0
Glycoxy acid		2	0	0	1	1	0	0	
Grease			0						
Halowaxoil (TM)				0					
Hemp & Jute	1	1	0	0	0	0	0	0	
Heptane	0	0	1	0	0	0	1	0	0
Hexachlorobutadiene				0					
Hexachloroethane	1	1	1	0	1	1	1	0	
Hexaldehyde				0					
Hexamethylenetetramine	1	1	0	0	1	2	0	0	0
Hexane				0					
Humic acid	0	1	0	0	0	0	0	0	0
Hydraxylaminesulphate			0						
Hydrazine		1	1		2	2	1		
Hydrazine sulphate			1						
Hydrobromic acid				0	2	2	1	0	
Hydrochloric acid	2	1	1	0	1	1	0	0	1
Hydrocyanic acid	2	1	0	0	2	2	0	0	0
Hydrogen	0	1	1	0					
Hydrogen bromide		1	2	0	1		1	0	
Hydrogen gas				0					
Hydrogen iodide, iodic acid	1	1	1	0	1	1	0	0	0

### Code

0 = Good Corrosion Resistance

1 = Corrosion Occurring, but material may be used in certain cases

2 = No Corrosion Resistance

No Code = Data Unavailable

Final selection of material is the responsibility of the user

## CORROSION RESISTANCE TABLES FOR DIAPHRAGMS (CONTINUED)

Aggressive Substances	Cu alloy	Steel	Steel 1.4571	PTFE	Nickel	Monel	Hastelloy	Tantalum	Titanium
Hydrogen peroxide	1	1	0	0	1	2	2	0	2
Hydrogen sulphide	1	1	0	0	1	0	0	0	0
Hydroquinone		1	0	0	0	0	0	0	0
Hypochloric acid	2	2	2	0				0	
Impregnating oils	0	1	0	0	0	0	0	0	0
Indol	0	0	0	0	0	0	0	0	0
Ink (Ferrogallic)		1		0					
Iodine	2	1	1	0	1	1	1	0	1
Iodoform		1	1		0	0	0	0	0
Iron nitrate	2	2	0	0	2	2		0	
Iron phosphate			0						
Isatine, derivates	0	1	0	0	0	0	0	0	0
Isobutyl alcohol				0					
Isopropyl acetate				0					
Isopropyl alcohol				0					
Isopropyl chloride				0					
Isopropyl ether				0					
Kerosene				0					
Lactame				0					
Lactic acid	1	1	1	0	2	2	1	0	0
Lactose		1	0	0	0	0	0	0	0
Lead acetate	1	2	0	0	1	1	0		
Lead arseniate	0		0	0	0	0	0	0	
Lead baths (electrolyt.)		1		0		0			
Lead bromide		2	1				1		
Lead carbonate	0	1	0	0	0	0	0	0	
Lead chloride		1	0	0		0	0	0	
Lead chromate	0	0	0	0	0	0	0	0	
Lead dioxide	0	0	0	0	0	0	0	1	
Lead (molten)	2	1	1	2	2	2			
Lead nitrate		1	0	0	0	0	0	0	
Lead nitride	0		0	0	0	0	0		
Lead oxide		1	1				1	1	
Lead rhodanide	0	2		0	0	0	0	0	
Lead sulphate	0	1	0	0	0	0	0		
Lead sulphide	2	1	1		2				
Lead tetraacetate			0				0		
Lead trinitroresorcinate			0	0		0	0		
Lecithine		1	0	0	0	0	0	0	0

## Code

0 = Good Corrosion Resistance

1 = Corrosion Occurring, but material may be used in certain cases

2 = No Corrosion Resistance

No Code = Data Unavailable

Final selection of material is the responsibility of the user

## CORROSION RESISTANCE TABLES FOR DIAPHRAGMS (CONTINUED)

Aggressive Substances	Cu alloy	Steel	Steel 1.4571	PTFE	Nickel	Monel	Hastelloy	Tantalum	Titanium
Levulinic acid		2	1	0	1	1	0	0	
Lignite tar	1	1	0		0	0	0		
Lime milk			0	0					
Limonene	1	1	0	0	0	0	0	0	0
Linseed oil	1		0	0	0	0			
Liqueur			0						
Lithium bromide				0					
Lithium carbonate		1	0	0	0	0	0		
Lithium chloride	1	1	1	0	1	1	0	0	1
Lithium hydride		1	0	1	1				
Lithium hydroxide	2	1	0	1	1	0			
Lithium (molten)	2	1	1	0	1	2		0	
Lithium sulphate	0	1	0	0	0	0	0	0	0
Litopone	0	1	0	0	0				
Lysoform			0						
Lysol			0						
Magnesium bisulphite		2	1	0	1	1	0	0	0
Magnesium carbonate	0	1	0	0	0	0	0	0	0
Magnesium chloride	2	1	1	0	1	0	0	0	0
Magnesium fluoride	1	1	1	0	1	1		1	
Magnesium hydroxide				0	0	0			
Magnesium (molten)	2	1	1	0					
Magnesium nitrate	1	1	0	0	2	2	2	0	0
Magnesium oxide	1	0	0	0	0	0	0	0	1
Magnesium oxychloride	1	1	1	0	0	0	0	0	0
Magnesium silicofluoride		1	0	0		1		2	
Magnesium sulphite	0	1	0	0	0	0	0	0	0
Magnesium sulphate	1	1	0		0	0	0	0	0
Maleic acid	1	1	0	0	0	0	0	0	0
Maleic acid, anhydride	2	1	0	0	0	0	0	0	0
Maleic anhydride				0					
Malic acid	0	2	0	0	0	0	0	0	0
Malonic acid	1	1	0	0	1	1	1	0	1
Malt	0	1	0	0	0	0	0		0
Maltose	0	0	0	0	0	0	0	0	0
Manganese dioxide		1	0	0	1	1		1	0
Manganese sulphate	1	1	0	0	0	0	0	0	0
Manganic chloride		1	1	0	1	1		0	0
Manganous chloride			0						

### Code

0 = Good Corrosion Resistance

1 = Corrosion Occurring, but material may be used in certain cases

2 = No Corrosion Resistance

No Code = Data Unavailable

Final selection of material is the responsibility of the user

## CORROSION RESISTANCE TABLES FOR DIAPHRAGMS (CONTINUED)

Aggressive Substances	Cu alloy	Steel	Steel 1.4571	PTFE	Nickel	Monel	Hastelloy	Tantalum	Titanium
Meat			0						
Menthol	1	1	0		0	0	0	0	0
Mercaptane	1	2	0	0	1	1	0	0	0
Mercury	2	1	0	0	0	2	1	0	1
Mercury chloride	2	2	1	0	2	2			
Mercury cyanide	2	2	0		2	2			
Mercury nitrate	2	2	0		2	2			
Mercury salts	2	2						0	
Mersolates		1	1	0	0	0	0	2	
Mesamoll (TM)				0					
Methane	0	1	1	0	1	0	0	1	1
Methane chlorobromide		0	0	0	0	0	0	0	
Methanol	1	1	1	0	0	0	0	1	1
Methyl acetate	1	1	1	1	1	0	0	0	0
Methyl acrylate				0					
Methyl alcohol	0		0	0	0	0			
Methyl aldehyde	1	1	0	0					
Methyl amine	2	1	1	0	1	2			0
Methyl bromide	0	1	1	0	0	0	0	0	0
Methyl chloride	1	1	1	0	0	0	0	0	0
Methyl ethyl acetone	0	1	0	0	0	0	0	0	0
Methyl formiate	0	0	0	0	0	0	0		0
Methylisobutyl acetone				0					
Methylmethacrylate				0					
Methyl salicylate				0					
Methylene chloride	1	1	1	0	0	0	0	0	0
Milk	1		0	0	1	1			
Molasses	1	1	0	0	0	0	0	0	0
Monobrombenzene				0					
Morphine		2	0	0				0	0
Morpholine	0	0	0	0	0	0	0	0	
Mortar	1	1	1	0	0	0	0	0	
Mustard		2	0						
Naphtaline	0	0	0	0	0	0	0	0	0
Naphtaline sulphonic acid		1	1	0	1	1	1	0	1
Naphtenic acid	1	1	0	0	0	0	0	0	0
Naphtochinoline		0	0	0				0	0
Naphtol		1	0	0	0	0	0	0	0
Naphtolen 2 D (TM)				0					

## Code

0 = Good Corrosion Resistance

1 = Corrosion Occurring, but material may be used in certain cases

2 = No Corrosion Resistance

No Code = Data Unavailable

Final selection of material is the responsibility of the user

## CORROSION RESISTANCE TABLES FOR DIAPHRAGMS (CONTINUED)

Aggressive Substances	Cu alloy	Steel	Steel 1.4571	PTFE	Nickel	Monel	Hastelloy	Tantalum	Titanium
Naphtylamine	1	0	0	0				0	0
Naphtylaminesulphonic acid	1	1	0	0				0	
Nibren wax				0					
Nickel chloride	2		1	0	1	0	0	0	0
Nickel nitrate			0		1	1	1	0	0
Nickel salts		2	0	0					
Nickel sulphate	1		0	0	1	1	0	0	0
Nitric acid	2	1	0	0	2	2	2	0	1
Nitric acid, strong conc.	2		1						
Nitrobenzene		0	0	0	0	0	0	0	0
Nitrogen	0	1	0	0	0	0	0	0	0
Nitrous acid			1						
Nitrous oxide gas				0					
Novocaine			0						
Oak extract	1	1	0	0	0	0	0	0	0
Oleic acid	1	1	0	0	1	1			
Olein				0					
Oleum				0	1	1	1	1	2
Olive oil				0					
Oxalic acid	2		1		2	1	0	0	1
Oxygen	0	1	0	0					
Oysters		2	0			0			
Ozone		1	0	0	1	1		0	0
Palm oil acid		0	0	0	0	0			
Paraffine	0	0	0	0	0	0			
Peanut butter		0	0		0	0	0		
Pentachlorodiphenyle				0					
Pentane				0					
Perchlorethylene	1	1	0	0	0	0	0	0	0
Perchloric acid	2	2	2	0					
Petrol ether			0						
Petrol, natural gas	1	1	0	0	1	1	0	0	
Petroleum	1	0	0	0					
Phenol	1		0	0	1	1	0	0	0
Phenyl benzene				0					
Phenyl ether				0					
Phenyl hydrazine				0					
Phosphoric acid	2	1	0	0	1	1	1	0	1
Phosphoric acid anhydride			0						

### Code

0 = Good Corrosion Resistance

1 = Corrosion Occurring, but material may be used in certain cases

2 = No Corrosion Resistance

No Code = Data Unavailable

Final selection of material is the responsibility of the user

## CORROSION RESISTANCE TABLES FOR DIAPHRAGMS (CONTINUED)

Aggressive Substances	Cu alloy	Steel	Steel 1.4571	PTFE	Nickel	Monel	Hastelloy	Tantalum	Titanium
Phosphorous chloride				0					
Phtalic acid	0	1	0	0	1	1	1	0	0
Pickling liquid			0						
Picric acid	2	1	0	0	2	2			
Pine oil				0					
Piperidine				0					
Polyglycol				0					
Potash lye	1	1	1	0	0	0	1	1	1
Potassium			0						
Potassium acetate	0	0	0	0	0	0	0	0	0
Potassium bisulphite	0	1	0	0	1	1		0	
Potassium bisulphate			1	0					
Potassium bitartrate			1						
Potassium bromide	0	1	1	0	0	0	0	0	0
Potassium carbonate	1	0	0	0	0	0			
Potassium chlorate		1	0	0	0	0		0	0
Potassium chloride	2	1	1	0	0	0	0	0	1
Potassium chromesulphate	1	2	1	0	1	1	0	0	0
Potassium cyanate			0						
Potassium cyanide	2	1	0	0	1	0	1	0	2
Potassium dichromate	0	1	0	0	0	0		0	0
Potassium difluoride			0						
Potassium fluoride	0	0	0	0	0	0	0		
Potassium hydrogen fluoride	1	1	0	0	0	0	0		2
Potassium hydroxide	1	1	1	0	0	0	1	1	1
Potassium hypochlorite		1	1	0	1	1		1	0
Potassium iodate		1	0	0				0	0
Potassium iodide		1	1	0	0		0	0	0
Potassium monochromate	0	1	0	0	0	0		0	0
Potassium nitrate	1	1	1	0	0	0		0	0
Potassium nitrite	1	1	1	0	0	0		1	1
Potassium oxalate			0						
Potassium perchlorate		1	0	0	0	0		1	1
Potassium permanganate	1	1	0	0	1	1		1	
Potassium peroxide	2	1	1	0	1	0	1	2	
Potassium persulphate				0	2	0	0	0	
Potassium phosphate	1	1	1	0	0	0	1	0	1
Potassium rhodanide		1	0	0	0	0	0	0	
Potassium silicate	0	1	0	0	0	0	0	1	0

## Code

0 = Good Corrosion Resistance

1 = Corrosion Occurring, but material may be used in certain cases

2 = No Corrosion Resistance

No Code = Data Unavailable

Final selection of material is the responsibility of the user

## CORROSION RESISTANCE TABLES FOR DIAPHRAGMS (CONTINUED)

Aggressive Substances	Cu alloy	Steel	Steel 1.4571	PTFE	Nickel	Monel	Hastelloy	Tantalum	Titanium
Potassium sulphate	0	1	0	0	0	0	0	0	0
Potassium sulphide, sulphite	1	1	0	0	1	1	1	0	
Propane	0	0	0	0	0	0			
Propane chlorobromide	1	1	0		0	0	0	0	
Propylene chlorobromide	1	1	0		1	1	0	0	
Propylene oxide		1	0	0					
Protein solutions	1	1	0	0	0	0	0	0	0
Pydraul (TM)				0					
Pyridine	1	0	0	0	0	0	0	0	0
Pyrocatechin		1	0		0	0	0	0	0
Pyrogallol			0						
Pyrrrole				0					
Pyruvic acid		2	0		0	0	0	0	
Quinic acid	0	2	0	0	0	0	0	0	0
Quinine	0	1	0	0	0	0	0	0	0
Quinine disulphate	0	2	0	0			0		
Quinine hydrochloride		2	2				0	0	
Quinine monosulphate	0	2	0	0	0	0	0	0	
Quinine sulphate			0						
Quinine tartrate	0	1	0	0	0	0	0	0	
Quinizarine		0	0		0	0	0	0	0
Quinoline	0	1	0	0	0	0	0		
Rape oil				0					
Rhodinol	0	1	0	0					
Sagrotan (TM)				0					
Salicylic acid	0	2		0	0	0			
Sea water	1	2	0	0	0	0	2	0	0
Silicofluorhydric acid	2	2	1	0	1	2	1	2	2
Silver bromide	2		0						
Silver nitrate		2	0	0	2	2		0	
Skydrol (TM)				0					
Sodium	1	1	1	1	1	1	1	0	1
Sodium acetate	1	1	0	0	0	0	0	0	0
Sodium aluminate	0	1	0	0	0	0			
Sodium aluminium fluoride		0	0	0	0	0	0		2
Sodium aluminium sulphate	1	2	1	0	1	1	0	0	
Sodium arseniate, arsenite	0	0	0	0	0	0	0		
Sodium benzoate	0	0	0	0	0	0	0	0	0
Sodium bicarbonate	1	1	0	0	0	0	1		0

### Code

0 = Good Corrosion Resistance

1 = Corrosion Occurring, but material may be used in certain cases

2 = No Corrosion Resistance

No Code = Data Unavailable

Final selection of material is the responsibility of the user

## CORROSION RESISTANCE TABLES FOR DIAPHRAGMS (CONTINUED)

Aggressive Substances	Cu alloy	Steel	Steel 1.4571	PTFE	Nickel	Monel	Hastelloy	Tantalum	Titanium
Sodium bisulphite	2	2	0	0	1	0		0	0
Sodium bisulphate	2	1	1	0	1	1	1	0	1
Sodium borate	1	1	1	0	1	0	0	1	0
Sodium boron hydride			0						
Sodium bromate		1	0	0				0	
Sodium bromide		1	1	0	0	0	0	0	0
Sodium bromite			0	0	0				
Sodium carbonate	1	1	0	0	1	1	0	1	1
Sodium chlorate		1	0	0	1	1		0	0
Sodium chloride	1	1	1	0	1	1	0	0	1
Sodium chlorite	1	2	1	0	1	1	2	1	0
Sodium chloroacetate	1	1	0	0	0	0	0	0	
Sodium chromate	0	1	1	0	0	0	0	0	0
Sodium citrate		1	0	0	1		2	0	
Sodium cyanamide	1	1	0			0			
Sodium cyanate	2	1	0	0	1				0
Sodium cyanide				0	1	1		1	1
Sodium dichromate	2				0	0	2	1	1
Sodium diphenylsulphonate		1	0	0	0	0			
Sodium dithionite	2	2	0	0	0	0	0	0	
Sodium duodecylbenzenesulphonate	1	1	0	0	0	0	0		
Sodium ethylate		0	0	0	0	0			
Sodium ethylene diamine tetraacetate		0	0	0	0	0	0		
Sodium fluoroacetate		0	0	0	0	0			
Sodium fluorophosphate	0	0	0	0					
Sodium formiate	0	0	0	0	0	0	0	0	
Sodium glutamate	2	1	0	0	0	0	0		
Sodium hydrochloride	2		1	0	1	1	1	1	1
Sodium hydrogen sulphide	2	1	0	0			0		
Sodium hydroxide	2		1	0	1	1	1	1	1
Sodium hypochlorite	2	1	1	0	1	1		0	0
Sodium iodide		1	1	0	1	0		0	0
Sodium nitrate	1		0	0	1	1	1	0	0
Sodium perborate			0	0	0				
Sodium perchlorate			0		0			1	1
Sodium peroxide	2		0		1	0	0		2
Sodium phosphate	1		0	0	1	1	1	0	
Sodium & potassium alloys	1	1	1	0	0	1	0	0	1
Sodium pyrosulphite			0	0		0			

## Code

0 = Good Corrosion Resistance

1 = Corrosion Occurring, but material may be used in certain cases

2 = No Corrosion Resistance

No Code = Data Unavailable

Final selection of material is the responsibility of the user

## CORROSION RESISTANCE TABLES FOR DIAPHRAGMS (CONTINUED)

Aggressive Substances	Cu alloy	Steel	Steel 1.4571	PTFE	Nickel	Monel	Hastelloy	Tantalum	Titanium
Sodium salicylate			0	0	0	0	0	0	
Sodium silicate	1		0	0	0	0	0	0	
Sodium sulphite	2		0	0	0	0	0	0	0
Sodium sulphate	1		0	0	1	1	1	0	1
Sodium sulphide	1		1	0	1	1	1	1	0
Sodium thiosulphate	1		0	0	0	0	0		0
Soft soap, suds	1	0	0	0					
Solder flux	1	1	1	0	0	1			
Spinning bath			1	0					
Stannous chloride	2	2	1	0				0	
Stearic acid	1	2	0	0	0	0			
Styrene				0					
Succinic acid	0	1	0	0	0	0	0	0	0
Sugar beet juice					0				
Sugar solution	1	1	0		0	1			
Sulphite lye	2	2	0	0	2	2	0	0	0
Sulphur	1	1	0	0	1	1	1	0	0
Sulphur, boiling	1	1	1						
Sulphur chloride (dry)	0								
Sulphur dioxide	1	1	0	0	1	0	1	0	1
Sulphur trioxide *									
Sulphuric acid	2	2	1	0	1	1	1	0	1
Sulphuric anhydride		2		0					
Sulphurous acid	2	1	0	0					
Sulphurous chloride	1	0	0	0	0	0		0	2
Tannin	1	1	0	0	1	1			
Tar, Pure	1	2	0	0	0				
Tartaric acid	2		1	0	1	1			
Tetrachloroethane	1	1	1	0					
Tetrachloroethylene				0					
Tetrahydrofurane				0					
Tetraline				0					
Tin chloride		2	1	0	1	1	0	0	0
Tin chloride solution				0					
Tin, molten, 300°C	2	2	0						
Tin, molten, 500°C	2	2	2						
Titanium tetrachloride				0					
Toluene	0	1	0	0	0	0			
Transformer oil				0					

### Code

0 = Good Corrosion Resistance

1 = Corrosion Occurring, but material may be used in certain cases

2 = No Corrosion Resistance

No Code = Data Unavailable

**Final selection of material is the responsibility of the user**

\* Sulphur trioxide can be porous to PTFE diaphragms

## CORROSION RESISTANCE TABLES FOR DIAPHRAGMS (CONTINUED)

Aggressive Substances	Cu alloy	Steel	Steel 1.4571	PTFE	Nickel	Monel	Hastelloy	Tantalum	Titanium
Tributoxyethylphosphate				0					
Tributyl phosphate				0					
Trichloroacetic acid			2	0					
Trichloroethane				0					
Trichloroethylene	1	1	0	0	0	0	0		1
Trichloroethylphosphate				0					
Tricresylphosphate				0	0		0		
Triethanolamine				0					
Triethyl glycol				0					
Trisodiumphosphate			0						
Turpentine	0	1	0	0	0	0			
Uranium fluorides					0	0	1	2	
Urea	1	1	0	0	1	1	0	0	0
Urea resins	0	1	0		0	0	0		
Uric acid		2	0	0	0	0	0	0	
Urine			0						
Varnish	0	1	0	0	0	0	0	0	
Vaseline			0						
Vegetables			0						
Vegetal tar, charcoal	0	1	0	0	0	0	0	0	
Vinegar			0	0					
Vinyl acetate			0	0					
Vinyl acetate acetic acid				0					
Vinyl chloride				0	1	1	1	0	
Viscose				0					
Wash oil		1	0			0	0		
Water	1	2	0	0	0	0			
Wine	1	2	0	0					
White lye				0					
Wood's alloy				0					
Xylamone				0					
Xylene			0	0	1	1			
Xylene-dimethylformamide				0					
Yeast	1	1	0	0	0	0	0	0	0
Zinc chloride	2	1	1	0	1	0	1	0	1
Zinc, molten, 300°C	2	2	0						
Zinc, molten, 500°C	2	2	2						
Zinc salts				0					
Zinc sulphate	2	2	0	0	1	1			

## Code

0 = Good Corrosion Resistance

1 = Corrosion Occurring, but material may be used in certain cases

2 = No Corrosion Resistance

No Code = Data Unavailable

Final selection of material is the responsibility of the user