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Web [www.thermal-detection.com](http://www.thermal-detection.com)

Media	Strength	Temp°C	Iron & steel	Bronze	304 stainless steel	316 stainless steel	'20' alloy	Monel alloy	Hastelloy 'B'	Hastelloy 'C'	Aluminium	Other materials
Acetic acid	5 > 10%	20	D	D	A	A	A	B	A	A	A	
Acetic acid	5 > 10%	100	D	D	B	B	A	C	B	A	D	C20 : A
Acetic acid	20%	20	D	D	A	A	A	B	A	A	A	
Acetic acid	50%	20	D	D	A	A	A	B	A	A	A	
Acetic acid	80%	20	D	D	A	A	A	B	A	A	A	
Acetic acid	80%	100	D	D	D	B	B	A	B	A	C	
Acetic acid	Glacial	20	D	D	A	A	A	A	A	A	A	Zr : A
Acetic acid	Glacial	100	D	D	D	B	A	B	B	A	B	C20 : A
Acetic acid vapours	30%	Hot	D	D	C	B	B	B	B	A	D	
Acetic acid vapours	100%	Hot	D	D	D	C	B	B	B	A	B	
Acetic anhydride	?	100	C	D	B	B	B	B	B	A	B	
Acetone	?	100	B	A	B	B	A	A	A	A	A	
Acetylene	?	20	A	D	A	A	A	B	A	A	A	
Acid mine water	?	20	D	D	B	B	A	D	C	B	D	
Alcohol, ethyl	?	20	B	B	B	B	A	A	A	A	A	
Alcohol, ethyl	?	100	B	B	B	B	A	B	A	A	B	
Alcohol, methyl	?	20	B	B	B	B	A	A	A	A	A	
Alcohol, methyl	?	100	B	B	C	B	A	B	A	A	C	
Alum (Al-K-sulphate)	10%	20	D	D	B	B	A	B	B	B	B	
Alum	10%	100	D	D	B	B	A	B	C	B	C	
Alum	Saturated	100	D	D	C	B	B	B	C	B	C	
Aluminium chloride	25%	20	D	D	D	C	B	B	B	B	D	C20 : B
Aluminium chloride	25%	100	D	D	D	D	B	C	B	C	D	Zr : A
Aluminium fluoride	5%	20	D	D	D	C	C	A	B	B	D	
Aluminium sulphate	0 > 100%	20	D	D	B	B	A	B	B	A	B	
Aluminium sulphate	0 > 100%	100	D	D	C	B	A	B	C	B	C	
Amines	?	20	A	B	A	A	A	A	A	A	B	
Ammonia	0 > 100%	20	B	D	A	A	A	C	B	B	B	
Ammonia gas	?	Hot	C	D	D	D	B	D	?	?	D	
Ammonium carbonate	?	20	B	C	B	B	A	B	B	B	A	
Ammonium chloride	10%	20	C	D	B	B	A	B	B	B	D	C20 : A
Ammonium chloride	10%	100	D	D	C	B	A	B	B	C	D	C20 : A
Ammonium chloride	25%	100	D	D	D	C	B	B	B	C	D	
Ammonium hydroxide	?	20	D	B	A	A	A	C	A	A	B	
Ammonium hydroxide	?	Hot	D	C	A	A	A	D	A	A	B	



**A = excellent resistance**

**B = good resistance**

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Ammonium nitrate	?	20	D	A	B	B	A	C	D	A	B	
Ammonium nitrate	Saturated	100	D	D	B	B	A	D	B	B	C	
Ammonium persulphate	5%	20	D	?	B	B	A	D	D	A	D	
Ammonium monophosphate	?	20	C	D	A	A	A	B	A	A	D	
Ammonium diphosphate	?	20	D	B	A	A	A	B	A	A	C	
Ammonium triphosphate	?	20	D	B	B	A	A	B	A	A	B	
Ammonium sulphate	5%	100	D	A	C	B	B	A	B	B	C	
Ammonium sulphate	10%	20	D	C	D	C	B	B	D	B	D	C20 : B
Ammonium sulphate	Saturated	100	D	C	D	C	B	B	D	B	D	C20 : B
Amyl acetate	0 > 100%	20	C	A	B	B	A	B	A	A	B	
Amyl alcohol	0 > 100%	20	?	C	?	?	?	B	?	?	D	Cu : B
Aniline	3%	20	B	A	A	A	A	B	A	A	B	
Aniline	4 > 100%	20	B	A	B	B	A	B	B	B	B	
Aniline hydrochloride	?	20	?	?	D	C	C	B	B	B	?	
Antimony trichloride	?	20	D	D	D	D	?	?	B	?	D	
Aqua regia	?	20	D	D	D	D	D	D	D	C	D	Ti:B
Aqua regia	?	93	D	D	D	D	D	D	D	D	D	
Asphalt chloride	5%	Hot	?	B	B	?	?	B	?	?	B	
Barium chloride	5%	20	C	D	B	B	A	B	B	B	C	
Barium chloride	Saturated	20	B	D	C	B	A	B	B	B	C	
Barium chloride	Aq. Soln.	Hot	D	D	D	C	B	B	B	C	D	
Barium sulphate	?	20	B	?	B	B	B	B	?	?	B	
Barium sulphate	Saturated	20	D	D	C	B	B	B	B	C	B	
Beer	?	?	B	A	A	A	A	A	A	A	B	
Benzene (benzol)	?	Hot	B	A	B	B	A	B	B	A	B	
Benzoic acid	?	20	B	B	B	B	B	B	A	A	B	
Bleaching powder	?	20	D	D	D	B	B	C	D	A	D	
Blood (meat juices)	?	20	?	?	B	A	A	?	A	A	D	
Borax	5%	20	B	C	A	A	A	A	A	A	B	
Boric acid	5%	Hot	D	B	B	B	A	B	A	A	D	
Bromine	Dry	20	C	D	D	D	D	B	B	B	D	
Bromine water	?	20	D	D	D	D	D	D	D	B	D	Zr:A
Buttermilk	?	20	C	A	A	A	A	A	A	A	D	
Butane	?	20	?	B	?	B	A	B	?	?	B	
Butyl acetate	?	20	A	A	D	B	B	A	A	A	A	



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Butyric acid	5%	66	B	A	B	B	B	B	B	A	C	
Butyric acid	Aq.soln.	Boil	D	B	B	B	B	B	B	A	D	
Calcium bisulphate	?	20	D	C	C	B	B	D	C	B	D	
Calcium carbonate	?	20	B	B	B	B	B	B	B	B	B	
Calcium chloride	Dil.	20	D	C	C	B	A	A	B	A	C	C20:A
Calcium chloride	Conc.	20	D	C	D	C	B	A	B	A	C	
Calcium chloride	Conc.	boil	D	D	D	D	B	A	B	A	D	
Calcium hydroxide	5%	20	C	D	B	B	B	A	A	B	B	
Calcium hydroxide	10%	Boil	D	D	B	B	B	A	A	A	D	
Calcium hydroxide	20%	Boil	D	D	B	B	B	A	A	A	D	
Calcium hydroxide	50%	Boil	D	D	B	B	?	A	A	A	D	C20:B
Calcium hypochlorite	2%	20	D	D	C	C	B	C	C	B	D	
Calcium sulphate	Sat.	20	B	B	B	B	B	B	B	B	B	
Carbolic acid	C.p.	Boil	C	C	B	B	B	B	B	B	B	
Carbolic acid	?	Boil	C	D	B	B	B	B	B	B	C	
Carbon disulphide	?	20	B	D	B	B	B	C	B	B	B	
Carbon monoxide	?	200	A	B	A	A	A	A	A	A	B	
Carbon monoxide	?	820	D	D	B	A	A	C	A	A	D	
Carbon tetrachloride	C.p.	20	B	B	B	B	A	A	B	A	B	
Carbon tetrachloride	C.p.	Boil	C	C	C	B	A	A	B	A	D	
Carbon tetrachloride	?	Boil	D	D	C	C	A	B	B	A	D	
Carbonic acid	Sat.	20	D	C	B	B	A	B	A	A	B	
Chloric acid	?	20	D	D	D	D	B	D	D	A	D	
Chlorinated water	Sat.	20	D	D	D	C	C	D	D	B	D	
Chlorine gas	Dry	20	B	C	D	C	A	B	B	A	B	
Chlorine gas	Wet	100	D	D	D	D	D	D	D	D	D	Ta:B
Chloroacetic acid	?	20	D	D	D	D	D	D	B	B	D	
Chlorobenzene	Conc.	20	A	A	A	A	A	A	A	A	?	
Chloroform	?	20	A	A	A	A	A	A	B	B	A	
Chlorosulphonic acid	10%	20	D	D	C	C	C	D	A	A	B	
Chlorosulphonic acid	Conc.	20	D	D	B	B	B	D	A	A	B	Zr:A
Chromic acid	5%	20	B	C	B	B	B	B	D	B	B	
Chromic acid	10% c.p	Boil	D	D	C	C	C	D	D	B	B	
Chromic acid	50% com.	boil	D	D	D	D	D	D	D	B	D	
Citric acid	5%	20	D	C	A	A	A	A	A	A	B	



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Citric acid	5%	66	D	C	B	B	A	B	A	A	B	
Citric acid	15%	Boil	D	D	B	B	A	B	A	A	C	
Citric acid	Conc.	Boil	D	D	D	B	B	B	A	A	B	Ni:A
Copper acetate	Sat.	20	D	D	B	B	B	B	A	A	D	
Copper carbonate	Sat.	20	?	?	A	A	B	A	A	A	?	
Copper chloride	1%	20	D	D	C	C	B	D	C	B	D	C20:A
Copper chloride	5%	20	D	D	D	C	B	D	C	B	D	C20:B
Copper chloride	5%	Boil	D	D	D	C	C	D	D	C	D	Ti:B
Copper cyanide	Sat.	Boil	?	?	B	B	B	C	B	B	?	
Copper nitrate	5%	20	D	?	A	A	A	A	D	B	?	
Copper nitrate	50%	Hot	D	?	B	B	B	B	D	B	?	
Copper sulphate	5%	20	D	D	B	B	A	D	D	B	D	C20:A
Copper sulphate	Sat.	Boil	D	D	B	B	A	D	D	B	D	C20:A
Creosote (coal tar)	?	Hot	B	C	B	B	A	B	A	A	B	
Cresylic acid	?	20	B	B	A	A	A	A	A	A	A	
Developing solutions	?	20	D	?	B	B	A	B	A	A	?	
Dichloroethane	?	Boil	D	?	B	B	B	B	B	B	?	
'Downtherm A'	?	Boil	A	D	A	A	?	?	A	A	C	
Ether	?	20	A	A	A	A	A	A	B	B	A	
Ethyl acetate	Conc.	20	B	A	A	A	A	B	B	B	A	
Ethyl chloride	Dry	20	A	A	A	A	A	B	B	B	A	
Ethylene glycol	?	20	B	A	A	A	A	A	A	A	A	
Fatty acids	?	Boil	C	B	B	B	A	A	B	A	C	Ic:A
Ferric chloride	1%	20	D	D	D	C	C	D	D	B	D	C20:A
Ferric chloride	1%	Boil	D	D	D	D	D	D	D	C	D	Ti,Zr:B
Ferric chloride	5%	20	D	D	D	D	D	D	D	B	D	
Ferric hydroxide	?	20	?	?	A	A	A	A	A	A	?	
Ferric nitrate	5%	20	?	?	B	B	A	B	C	B	D	
Ferric sulphate	5%	20	D	D	B	A	A	C	D	B	D	
Ferric sulphate	5%	Boil	D	D	B	B	A	D	D	B	D	
Ferrous sulphate	10%	20	D	B	B	B	B	B	B	B	C	
Ferrous sulphate	Sat.	20	D	D	B	B	B	B	B	B	D	
Fluorine	Dry	20	C	B	B	B	A	B	B	B	D	
Flourosilicic acid	?	20	D	D	D	D	B	B	B	B	D	C20:B
Formaldehyde	?	20	B	B	B	B	A	B	B	B	B	
					B	B			B	A		
					B				B			



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Formic acid	5%	20	C	C	B	B	A	B	C	A	D	
Formic acid	5%	66	D	C	B	B	B	C	C	A	D	
Formic acid	10-50%	20	C	C	B	B	A	B	C	A	D	
Formic acid	10-50%	Boil	D	D	D	D	B	C	C	B	D	C20:B
Formic acid	100%	20	D	C	C	C	A	B	B	A	D	C20:A
Formic acid	100%	Boil	D	C	D	D	B	C	C	B	D	C20:B
Freon	Dry	?	A	A	A	A	A	A	A	A	A	
Freon	Wet	?	B	B	C	C	C	B	B	B	C	
Fruit juices	?	20	C	A	A	A	A	B	A	A	D	lc:A
Fuel oil	?	Hot	B	A	A	A	A	A	A	A	A	
Furfural	5%	20	B	B	B	B	A	B	B	B	B	
Garlic acid	5%	20	B	C	B	B	B	B	B	B	D	
Garlic acid	Refined	66	C	D	B	B	B	B	B	B	D	
Gasoline	Sour	20	A	A	A	A	A	A	A	A	A	
Gasoline	?	20	D	A	A	A	A	A	A	A	C	
Gelatine	?	?	D	A	A	A	A	A	A	A	D	
Glucose	?	?	?	B	B	B	A	?	?	?	B	
Glycerine	?	20	B	A	A	A	A	A	A	A	A	
Hydrobromic acid	?	20	D	D	D	D	D	B	C	C	D	
Hydrocarbons (aliphatic)	?	20	A	A	A	A	A	A	A	A	A	
Hydrocarbons (aromatic)	?	20	A	A	A	A	A	A	A	A	A	
Hydrochloric acid	1%	20	D	D	D	C	C	A	A	A	D	C20:A
Hydrochloric acid	1%	Boil	D	D	D	D	D	B	D	D	D	Zr:A
Hydrochloric acid	5%	20	D	D	D	D	D	A	B	B	D	C20:B
Hydrochloric acid	5%	Boil	D	D	D	D	D	B	D	D	D	Zr:A
Hydrochloric acid	10%	20	D	D	D	D	D	A	C	C	D	
Hydrochloric acid	10%	boil	D	D	D	D	D	B	D	D	D	
Hydrochloric acid	25%	20	D	D	D	D	D	A	B	B	D	
Hydrochloric acid	25%	boil	D	D	D	D	D	B	D	D	D	
Hydrochloric acid	Conc.	20	D	D	D	D	D	A	B	B	D	
Hydrochloric acid	Conc.	boil	D	D	D	D	D	B	D	D	D	Zr:B
Hydrocyanic acid	?	20	D	A	B	B	B	B	B	B	C	
Hydrofluoric acid	Conc.	20	D	D	D	D	C	B	B	B	D	C20:B
Hydrofluoric acid	Conc.	80	D	D	D	D	D	B	B	B	D	C20:B
Hydrofluorosilicic acid	?	20	D	D	D	D	B	B	B	B	D	



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Hydrogen chloride	Dry	20	C	D	C	B	A	B	B	B	C	
Hydrogen chloride	Wet	20	D	D	D	C	C	C	B	A	D	
Hydrogen fluoride	Dry	20	C	D	C	C	A	B	B	B	D	
Hydrogen fluoride	Wet	20	D	D	D	D	C	B	B	B	D	
Hydrogen peroxide	?	20	D	C	A	A	A	B	B	A	A	C20:B
Hydrogen peroxide	?	Boil	D	D	B	B	B	C	C	B	B	
Hydrogen sulphide	dry	20	A	B	A	A	B	B	B	A	A	
Hydrogen sulphide	Wet	20	C	C	C	B	B	C	C	B	B	Ic:A
Hydriodic acid	Dil.	20	D	D	D	D	?	C	B	C	D	
Iodine	Dry	20	D	D	D	C	B	C	C	B	D	
Iodine	Wet	20	D	D	D	D	D	D	D	B	D	
Iodoform	?	20	D	?	A	A	A	A	A	A	?	
Kerosene	?	20	A	A	A	A	A	A	A	A	A	
Ketchup	?	20	D	C	B	A	A	B	A	A	A	
Lacquers	?	Hot	D	B	B	B	A	B	B	B	B	
Lactic acid	1%	Boil	D	D	B	B	B	C	B	C	D	
Lactic acid	5%	20	D	D	B	A	A	B	B	B	A	
Lactic acid	5%	66	D	D	B	B	A	C	B	B	B	
Lactic acid	5%	Boil	D	D	D	B	B	D	B	C	D	
Lactic acid	10%	20	D	D	B	A	A	B	B	B	A	
Lactic acid	10%	66	D	D	C	B	A	C	B	B	B	
Lactic acid	10%	Boil	D	D	D	C	B	D	B	C	D	C20:B
Lactic acid	Conc.	20	D	D	B	A	B	B	B	B	A	
Lactic acid	Conc.	Boil	D	D	D	D	B	D	B	C	D	C20:B
Lead acetate	?	20	D	?	B	B	B	B	B	B	D	
Lithium	?	150	B	D	A	A	?	C	C	C	D	
Lithium	?	540	C	D	C	C	?	C	C	C	D	
Lithium	?	820	C	D	C	C	?	D	D	D	D	
Lye (caustic)	?	20	D	D	B	B	B	A	B	B	D	
Lye (caustic)	?	Boil	D	D	B	B	B	A	B	B	D	
'Lysol'	?	20	D	D	C	C	?	D	C	B	D	
Magnesium carbonate	?	20	?	?	B	B	B	B	B	B	?	
Magnesium chloride	5%	20	D	C	B	B	A	A	A	A	C	
Magnesium chloride	5%	Hot	D	D	D	D	A	A	A	B	D	
Magnesium chloride	10-30%	20	D	D	C	B	A	A	A	A	C	



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Magnesium chloride	Sat.	20	D	D	C	B	B	A	A	A	C	
Magnesium hydroxide	?	20	B	B	B	B	B	B	A	A	D	
Magnesium sulphate	?	20	B	B	B	B	A	A	A	B	B	
Magnesium sulphate	?	Hot	C	B	B	B	A	A	A	B	B	
Malic acid	Conc.	20	D	?	B	B	B	B	B	B	B	
Malic acid	?	Hot	D	?	B	B	B	B	B	B	C	
Mercuric chloride	2%	20	D	D	D	D	?	D	D	B	D	C20:A
Mercuric chloride	2%	Hot	D	D	D	D	?	D	D	B	D	C20:B
Mercuric cyanide	?	20	D	?	B	B	B	?	B	B	?	
Mercurous nitrate	?	20	D	?	B	B	B	?	D	B	?	
Mercury	?	150	B	C	C	C	?	C	?	?	D	
Mercury	?	540	D	D	D	D	?	D	?	?	D	
Mercury	?	820	D	D	D	D	?	D	?	?	D	
Methyl chloride gas	?	20	D	B	B	B	A	B	B	B	D	
Milk	?	20	D	C	A	A	A	B	A	A	A	
Mixed acids 1% sulphic,99%nit.	?	20	D	D	B	B	B	D	D	B	B	
Mixed acids 1% sulphic,99%nit.	?	110	D	D	C	C	C	D	D	C	D	Ta:B
Mixed acids 10% sulphic,90%nit.	?	20	D	D	B	B	B	D	D	B	B	
Mixed acids 10% sulphic,90%nit.	?	110	D	D	C	C	C	D	D	C	D	Ta:B
Mixed acids 15% sulphic,5%nit.	?	20	D	D	B	B	A	D	D	B	B	
Mixed acids 15% sulphic,5%nit.	?	110	D	D	C	C	B	D	D	C	D	Ta:B
Mixed acids 30% sulphic,5%nit.	?	20	D	D	B	B	A	D	D	B	C	
Mixed acids 30% sulphic,5%nit.	?	110	D	D	C	C	B	D	D	C	D	Ta:B
Mixed acids 53% sulphic,45%nit.	?	20	B	D	B	B	B	D	D	B	D	
Mixed acids 53% sulphic,45%nit.	?	110	D	D	C	C	B	D	D	C	D	Ta:B
Mixed acids 58% sulphic,40%nit.	?	20	B	D	B	B	B	D	D	B	D	
Mixed acids 58% sulphic,40%nit.	?	110	D	D	C	D	C	D	D	C	D	Ta:B
Mixed acids 70% sulphic,10%nit.	?	20	D	D	D	C	B	D	D	B	D	
Mixed acids 70% sulphic,10%nit.	?	110	D	D	D	D	C	D	D	D	D	Ta:B
Muriatic acid	?	20	D	D	D	C	B	C	A	A	D	
Naphtha	?	20	B	B	B	B	B	B	B	B	B	
Nickel chloride	?	20	D	D	C	C	B	C	A	A	D	
Nickel sulphate	?	Hot	D	D	C	C	B	B	D	B	D	
Nitric acid	1%	20	D	D	A	A	A	D	D	A	B	
Nitric acid	1%	hot	D	D	B	B	A	D	D	C	D	
Nitric acid												
Nitric acid												



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Nitric acid	5%	20	D	D	A	A	A	D	D	A	B	
Nitric acid	10%	20	D	D	A	A	A	D	D	A	D	
Nitric acid	10%	Boil	D	D	B	C	B	D	D	C	D	
Nitric acid	20%	20	D	D	A	A	A	D	D	B	D	
Nitric acid	50%	20	D	D	A	A	A	D	D	B	C	
Nitric acid	50%	Boil	D	D	B	C	B	D	D	D	D	Zr:A
Nitric acid	65%	Boil	D	D	B	B	B	D	D	D	C	Ti:B
Nitric acid	85%	20	B	D	B	B	A	D	D	B	B	
Nitric acid	85%	Hot	D	D	B	C	B	D	D	D	D	Zr:A
Nitric acid	Conc.	20	B	D	B	C	B	D	D	B	A	
Nitric acid	Conc.	Hot	D	D	C	C	B	D	D	D	D	Zr:A
Nitrous acid	5%	20	D	D	B	B	B	D	D	B	C	
Oils (crude)	?	Hot	D	C	B	B	A	B	B	B	B	
Oils (veg & mineral)	?	Hot	B	B	B	B	A	B	B	B	B	
Oleic acid	?	20	C	C	B	B	B	A	B	B	B	
Oleic acid	Raw	205	D	D	C	B	B	B	B	B	D	
Oleum	?	20	B	D	C	B	A	D	B	A	C	
Oleum	?	Hot	D	D	D	C	B	D	C	B	D	
Oxalic acid	5%	Hot	D	D	C	C	B	B	B	B	D	
Oxalic acid	10%	20	C	C	B	B	B	B	B	B	B	C20:A
Oxalic acid	10%	Boil	D	D	D	D	B	C	B	B	D	C20:B
Oxalic acid	50%	Boil	D	D	D	D	B	C	B	B	D	
Oxalic acid	Sat.	20	C	D	B	B	B	B	B	B	B	
Oxalic acid	Sat.	Boil	D	D	D	D	B	C	B	B	D	
Oxygen	?	Cold	B	?	A	A	A	A	?	A	A	
Oxygen	?	260	?	?	B	B	A	B	?	A	B	
Oxygen	?	260-540	?	?	B	B	B	B	?	C	C	
Oxygen	?	540	D	?	D	C	B	D	?	C	D	347:B
Palmitic acid	?	20	C	B	B	B	B	B	B	B	B	
Paraffin	?	Hot	A	A	A	A	A	A	A	A	A	
Phenol	C.p	Boil	C	C	B	B	B	B	B	B	B	
Phosphoric acid, c.p.	1%	20	D	B	B	B	A	B	A	A	B	
Phosphoric acid	5%	20	D	C	B	B	A	B	A	A	C	
Phosphoric acid	10%	20	D	C	C	B	A	B	A	A	C	
Phosphoric acid	10%	boil	D	D	D	C	B	D	A	A	D	C20:A



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Phosphoric acid	25%	Boil	D	D	D	C	B	D	A	B	D	C20:A Fr:A
Phosphoric acid	45%	70	D	D	D	B	A	B	A	A	D	Fr:A
Phosphoric acid	45%	Boil	D	D	D	C	B	D	A	B	D	C20:A Fr:A
Phosphoric acid	85%	20	D	D	D	B	A	A	A	A	D	Fr:A
Phosphoric acid	85%	Boil	D	D	D	D	C	C	A	C	D	C20:B
Picric acid. aqueous soln	?	20	C	D	B	B	B	D	B	B	D	
Potassium bromide	?	20	D	B	C	B	B	B	B	B	C	
Potassium carbonate	1%	20	B	B	B	B	A	B	B	B	D	
Potassium chlorate	?	20	B	B	B	B	A	B	C	B	B	
Potassium chloride	1-5%	20	D	C	C	B	A	A	B	A	C	
Potassium chloride	1-5%	20	D	D	D	D	A	B	B	B	D	C20:A
Potassium cyanide	?	20	D	D	B	B	A	B	B	B	D	
Potassium dichromate	?	20	C	C	B	B	A	C	C	B	B	
Potassium ferricyanide	5%	20	C	D	B	B	B	B	B	B	B	
Potassium ferrocyanide	5%	20	C	D	B	B	B	B	B	B	B	
Potassium hydroxide	5%	20	B	D	B	B	B	A	B	B	D	
Potassium hydroxide	25%	Boil	D	D	B	B	B	A	B	B	D	C20:A
Potassium hydroxide	50%	Boil	D	D	B	B	B	A	B	B	D	C20:A
Potassium hypochlorite	?	20	D	D	D	C	B	D	D	B	D	
Potassium nitrate	1-5%	20	B	B	B	B	B	B	C	B	B	
Potassium nitrate	1-5%	Hot	B	C	B	B	B	B	C	B	B	
Potassium permanganate	5%	20	A	A	A	A	A	A	A	A	A	
Potassium sulphate	1-5%	20	B	B	B	B	A	B	B	B	B	
Potassium sulphate	1-5%	Hot	D	B	B	B	B	B	B	B	B	
Potassium sulphide	Sat.	20	C	D	B	B	B	B	B	B	D	
Propane	?	?	B	?	B	B	A	B	?	?	?	
Propionic acid	?	20	D	D	B	B	A	B	A	A	B	
Pyrogalllic acid	?	20	B	B	B	B	B	B	B	B	B	
Quinine bisulphate	Dry	20	D	B	B	B	B	B	B	B	D	
Quinine sulphate	Dry	20	D	B	B	B	B	B	B	B	D	
Rosin	Molten	?	D	C	A	A	A	A	A	A	A	
Sal ammoniac	?	20	C	D	B	B	B	B	B	B	D	
Salicylic acid	?	20	D	B	B	B	B	B	B	B	B	
Sea water	?	20	D	C	B	B	A	A	A	A	C	
Sewage	?	20	C	C	B	B	A	C	B	B	C	



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Media	Strength	Temp°C	Iron & steel	Bronze	304 stainless steel	316 stainless steel	'20' alloy	Monel alloy	Hastelloy 'B'	Hastelloy 'C'	Aluminium	Other materials
Silver bromide	?	20	D	?	C	B	A	?	B	B	?	
Silver chloride	?	20	D	?	D	D	C	?	D	B	?	
Silver nitrate	?	20	?	?	B	B	A	D	B	B	?	
Soaps	?	20	B	B	B	B	A	B	B	B	B	
Sodium and/or sodium potassium NaK	?	150	B	C	A	A	A	A	A	A	C	Zr:A
Sodium and/or sodium potassium NaK	-	-	-	-	-	-	-	-	-	-	-	
Sodium and/or sodium potassium NaK	?	540	D	D	A	A	A	B	A	A	D	lc, Ni,Ti
Sodium and/or sodium potassium NaK	-	-	-	-	-	-	-	-	-	-	-	
Sodium and/or sodium potassium NaK	?	820	D	D	A	A	A	D	A	A	D	Ta-A
Sodium acetate	Moist	20	C	B	B	B	A	B	B	B	?	
Sodium bicarbonate	?	20	C	B	B	B	A	B	B	B	C	
Sodium bisulphate	?	20	D	C	B	B	B	B	B	B	D	
Sodium carbonate	5%	20	B	B	B	B	A	B	B	B	D	
Sodium carbonate	5%	66	B	D	B	B	A	B	B	B	D	
Sodium chlorate	10%	20	?	?	B	B	B	?	D	B	B	
Sodium chlorate	25%	20	?	?	B	B	B	?	D	B	B	
Sodium chloride	5%	20	C	B	B	B	A	A	B	B	C	
Sodium chloride	20%	20	C	B	B	B	A	B	B	B	C	
Sodium chloride	Sat.	20	C	B	B	B	A	B	B	B	C	
Sodium chloride	Sat.	Boil	D	D	C	B	B	A	B	B	C	
Sodium cyanide	?	20	B	D	B	B	A	B	B	B	D	
Sodium fluoride	5%	20	?	B	B	B	B	A	B	B	?	
Sodium hydroxide	5%	20	B	C	B	B	A	A	A	B	D	
Sodium hydroxide	20%	Boil	B	D	B	B	B	A	A	B	D	C20:A
Sodium hydroxide	50%	Boil	D	D	B	B	B	A	A	B	D	C20:A
Sodium hydroxide	75%	Boil	D	D	D	C	B	B	B	B	D	C20:A
Sodium hypochlorite	5%	20	D	D	D	C	C	C	D	B	D	Ti:A
Sodium hyposulphite	?	20	D	D	B	B	B	B	B	B	D	
Sodium nitrate	?	20	B	B	A	A	A	B	D	B	B	
Sodium silicate	?	?	B	C	B	B	A	B	B	B	C	
Sodium sulphate	Sat.	20	B	B	C	B	A	B	B	B	B	
Sodium sulphide	Sat.	20	B	D	C	B	A	B	B	B	D	
Sodium sulphite	5%	20	B	D	B	B	A	B	D	B	B	
Sodium sulphite	10%	66	B		C	B	B	B	D	B	B	



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Sodium sulphite	10%	Boil	D	D	C	B	B	B	D	B	C	
Sodium thiosulphate	20%	20	D	D	B	B	B	B	B	B	B	
Stannic chloride	5%	20	D	D	D	C	B	D	B	B	D	
Stannic chloride	5%	Boil	D	D	D	D	D	D	C	B	D	
Stannous chloride	Sat.	20	D	D	D	C	B	C	B	B	D	Zr:A
Steam	?	100	A	B	A	A	A	A	A	A	B	
Steam	?	205	A	B	A	A	A	A	A	A	B	
Steam	?	320	C	D	A	A	A	A	A	A	D	
Stearic acid	?	20	C	C	B	A	A	A	A	A	A	
Strontium nitrate	?	20	D	C	A	A	A	A	A	A	A	
Sugar juice	?	66	D	B	B	B	A	B	B	B	B	
Sulphate liquours	?	20	C	D	B	B	B	B	B	B	D	C20:A
Sulphite liquours	?	20	D	D	C	B	B	D	C	B	C	C20:A
Sulphur-dry, molten	?	?	B	C	B	B	B	B	B	B	B	
Sulphur-wet, molten	?	?	D	D	C	B	B	C	?	?	C	
Sulphur chloride	?	?	D	D	C	B	B	B	D	B	B	
Sulphur dioxide	Dry	260	B	D	B	B	B	B	C	B	B	
Sulphur dioxide	Moist	20	D	D	C	B	B	C	C	B	B	
Sulphuric acid	1%	20	D	B	B	B	A	C	A	A	B	
Sulphuric acid	1%	Boil	D	D	C	C	B	B	B	C	C	C20:A;Zr:A
Sulphuric acid	5%	20	D	C	C	B	A	C	A	A	C	
Sulphuric acid	5%	Boil	D	D	D	C	B	B	B	C	D	C20:A;Zr:A
Sulphuric acid	10%	20	D	C	D	C	B	C	A	A	C	
Sulphuric acid	10%	Boil	D	D	D	D	B	B	B	C	D	Zr:A
Sulphuric acid	50%	20	D	D	D	D	A	B	A	A	D	C20:A
Sulphuric acid	50%	Boil	D	D	D	D	C	D	A	D	D	
Sulphuric acid	60%	20	D	D	D	D	A	B	A	A	D	C20:A
Sulphuric acid	60%	Boil	D	D	D	D	D	D	C	D	D	Zr,Ta:B
Sulphuric acid	80%	20	D	D	C	C	B	C	A	A	D	
Sulphuric acid	80%	Boil	D	D	D	D	D	D	D	D	D	Ta:B
Sulphuric acid	Conc.	20	B	D	B	B	A	D	A	A	B	
Sulphuric acid	Conc.	Boil	D	D	D	D	D	D	D	D	D	Ta:B
Sulphuric acid	Conc.	20	D	D	D	D	D	D	D	D	D	Ta:B
Sulphuric acid	Fuming	20	C	D	C	B	A	D	A	A	A	
Sulphurous acid	Sat.	20	D	D	D	B	B	D	D	B	C	C20:B



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Sulphurous acid	Sat.	120	D	D	D	B	B	D	D	B	D	C20:B
Sulphurous spray	?	20	D	D	D	D	?	D	D	B	D	C20:A
Tannic acid	?	20	D	B	B	B	A	B	B	B	C	C20:A
Tannic acid	?	?	D	C	C	B	A	B	B	B	D	C20:A
Tartaric acid	10%	20	D	C	A	A	A	A	B	B	A	C20:A
Tartaric acid	10%	Hot	D	D	C	B	A	B	B	B	D	C20:A
Titanium tetrachloride	Wet	20	D	D	D	D	D	B	D	B	D	C20:A
Trichloroethylene	Dry	20	B	B	B	B	B	B	B	A	B	Zr:A
Trichloroacetic acid	?	20	D	D	D	D	D	D	B	B	D	Zr:A
Tri-sodium phosphate	?	?	B	D	B	B	B	B	B	?	D	Zr:A
Turpentine	?	20	A	B	A	A	A	A	A	A	A	Zr:A
Uric acid	Conc.	20	D	D	B	B	B	?	B	B	D	Zr:A
Varnish	?	20	C	B	A	A	A	A	A	A	A	Zr:A
Varnish	?	Hot	D	D	B	B	A	A	A	A	B	Zr:A
Vegetable juices	?	Boil	D	D	B	A	A	B	B	A	B	Zr:A
Vinegar	?	20	D	C	A	A	A	A	A	A	C	Zr:A
Vinegar	?	Hot	D	D	B	B	B	B	B	A	B	Zr:A
Vinegar fumes	?	?	D	D	B	B	B	C	B	A	D	Zr:A
Water, distilled	?	?	D	D	A	A	A	B	A	A	A	Zr:A
Whiskey and wine	?	70	D	B	A	A	A	B	A	A	C	Zr:A
Zinc chloride	5%	70	D	D	C	B	A	B	B	B	B	Ti, Zr:A
Zinc chloride	5%	Boil	D	D	D	C	B	B	B	C	C	Ti, Zr:A
Zinc chloride	20%	20	D	D	D	B	B	B	B	B	C	Ti, Zr:A
Zinc chloride	20%	Boil	D	D	D	C	B	C	B	C	D	Ti, Zr:A
Zinc sulphate	5%	20	B	B	B	A	A	A	B	B	B	Ti, Zr:A
Zinc sulphate	25%	Boil	D	D	D	B	B	B	B	B	C	Ti, Zr:A
Zinc sulphate	Sat.	20	B	C	B	A	A	A	B	B	B	Ti, Zr:A



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