

### Lab Corrosion Data

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Media	Temp	Type		Media	Temp	Type		Media	Temp	Type	
	+	304	316		+	304	316		+	304	316
2%	70	IV	II*	Glycerin (acid free)	70	I	I		B(220)	I	I
Mixtures of acids and salts				Potassium dichromate				Stannic chloride			
Fuming nitric acid (Sp. Gr. 1.52) + 10% potassium nitrate				25%	B	I	I	solution (Sp. gr. 1.21)	70	IV	III
				Potassium ferricyanide					B	V	V
	B	II	II	25%	70	I	I	Stannous chloride	125	III*	II*
Fuming nitric acid (Sp. Gr. 1.52) + 10% aluminum nitrate				Potassium ferrocyanide				Stearic acid	70	I	I
	B	II	II	5%	70	I	I		350	IV	I
10% sulfuric acid + 10% copper sulfate				Potassium hypochlorite				Sugar			
	B	I	I	Conc. Solution	70	IV	III*	solution	H	I	I
10% sulfuric acid + 2% ferrous sulfate				Potassium oxalate		I	I	Sulfur			
	B	III	II	Potassium sulfate				fused	265	I	I
Naphthalene sulfonic acid (Dry)	70	I	I	1%	70	I	I	boiling	830	V	V
Nickel chloride				5%	70	II	I	Sulfur dioxide			
Solutions	70	III*	II*	Potassium sulfide				gas, moist	70	II	I
Nickel sulfate				Solution	H	I	I	gas, dry	575	I	I
Solutions	70	II*	I*	Pyrogalic acid		I	I				
Nitric acid Diluted 1:1				Salt brine				Sulfur monochloride	70	III	II
	70	I	I	3%	70	I*	I*				
				Over 3%	70	II*	I*	Sulfuric acid			
concentrated	70	I	I	Sea water				diluted 1:20	70	II	I
	B	II	II	100g contains: 2.72g NaCl:					B	V	IV
fuming	70	I	I	0.33 MgCl <sub>2</sub> : 0.22g MgSO <sub>4</sub>				diluted 1:10	70	III	II
	B	IV	IV	0.13g CaSO <sub>4</sub> 0.97g KCl:					B	V	V
Nitrous acid				0.008gMgBr <sub>2</sub> 0.012gCaCO <sub>3</sub>	70	II*	I*	diluted 1:1	70	III	II
5% Solution	70	I	I	Silver nitrate				concentrated	70	I	I
Oleic acid, Raw	300	II	I	10%	B	I	I		70	I	I
	400	III	II	Soap	70	I	I		212	IV	IV
Oil, crude				Sodium acetate-moist		I*	I		300	V	V
asphalt base	H	I	I	Sodium bisulfate				fuming (11% free SO <sub>3</sub> )	212	II	II
paraffin base	70	I	I	10%	70	II	I	(60% free SO <sub>3</sub> )	70	II	II
Oil, vegetable	H&C	I	I		B	II	I		160	II	II
Oxalic, acid				Sodium bisulfite				Sulfurous acid in water			
10%	70	I	I	Sp. gr. 1.38-solution	70	I	I	saturated	70	II	I
	B	IV	II	Sodium carbonate				At 60 psi	275	II	I
25%	B	IV	II	50%	B	I	I	At 70-125 psi	320	V	II
50%	B	IV	II		Meltin			At 150 psi	350	V	II
Phosphoric acid					(1650)	V	V	At 200 psi	400	V	II
1%	70	I	I	Sodium chloride				At 300 psi	400	V	II
	B	II	I	saturated, cold	70	I*	I*	Tannic acid			
1% at 45 psi	275	II	I		B	II*	I*	10%	B	I	I
10%	B	IV	I	saturated at 212F	H	II*	I*	50%	B	I	I
45%	B	IV	II	Sodium fluoride							

80%	140	III	II	5% solution		II*	I*	Tanning liquor		I	I
	230	V	III	Sodium hydroxide				Tartaric acid			
Phosphoric anhydride				20%	230	I	I	10%	70	I	I
dry or moist	70	I	I	34%	212	I	I		B	I	I
Photographic developers					B	II	II	50%	70	I	I
reducing hydroquinone,				melting	610	II	II		B	II	I
amido, ferrous-				Sodium hypochlorite 5%	70	III*	II*	Tin (molten)	1100	V	V
potassium oxalate	70	I*	I*	Sodium hyposulfite							
	B	I*	I*	dilute solution	H	I	I	Trichloroacetic acid	70	V	V
				Sodium perchlorate 10%	70	I	I				
Picric acid		I	I		B	I	I	Trichlorethylene (dry)	70	I	I
Potassium bitartrate				Sodium sulfate				Varnish	70	I	I
saturated	B	II	I	all concentrations	H	II	I		H	I	I
Potassium bichromate				Sodium sulfide				Zinc (molten)	1100	V	V
25%	70	I	I	50%	B	I	I				
Potassium bromide	70	II*	I*	saturated	B	I*	I	Zinc chloride			
Potassium chlorate				Sodium sulfite 50%	B	II	I	solution, Sp. gr. 2.05	100	III*	I*
saturated	B	I	I	Sodium thiosulfate				solution, Sp. gr. 1.09	B	IV	I*
Potassium chloride				saturated solution	70	I	I	78 Be	95	III*	I*
1%	70	I*	I*	acid fix (hypo)	70	I	I	Zinc sulfate			
	B	I*	I*	25% solution	70	I	I	25%	C	I	I
5%	70	I*	I*		B	I	I		B	II	I
	B	II*	I*	20% + 20% acetic acid	70	I	I	saturated	70	I	I