



Chemical or Solution	Codes																					
	Cast Iron	Cast Steel	304 Stainless Steel	316 Stainless Steel	Alloy 20	Hastelloy B	Hastelloy C	Titanium	PVC	Polypropylene	PVDF	PTFE	Polyethylene	Noryl	Acrylic	Clear PVC	Ceramic	Buna N	Hypalon	FEP	Viton	EPDM
Barium Sulfate	3	3	2	1	1	1		1	1	1	1	1	1	1	1	1	2	1	1	1	1	1
Barium Sulfide		2	1	2	1			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Beer	3	3	1	1	1	1	1	2	1	1		1	1	1	1	1	1	1	1	1	1	1
Beet Sugar Liquors			1	1	1		1	1	1	1	1	1	3	1	1	1	1	1	1	2	2	1
Benzene	1	1	1	1	1	1	1	1	3	3	1	3	1	3	3	3	1	3	3	1	1	3
Benzaldehyde	3	3	1	1	1	1	1	1	1	1	3		1	2		1	3		1	3	3	3
Benzoic Acid	3	3	1	1	2	1	1	1	2	1	1	1	1	1	1	1	2	3	3	1	1	3
Black Sulfate Liquor	1	1		1	1				1	1	1	1	1		1	1			2	1	1	2
Borax	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1
Boric Acid	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Bromic Acid	3	3	3	3	3				1	3	1	1	1			1				1		
Bromine	3	3	3	3		1	1	1	3	3	1	1	3	3	3	3	1	3	1	1	1	3
Butane	1	1	1	1	1	1	1	1	1	1	1	1		3		1	1	1		1	1	3
Butylene	1	1	1	1	1	1	1	-	1	3	1	1	2	-		1	2		1	1	3	
Butadiene	1	1	1	1	1	1	1	-	1			1		3			-	3		1	2	3
Butyl Acetate				1	1	1	1	-	3	3	2	1	1	3		3	1	2	3	1	3	2
Butyl Alcohol		2	1	1	1		1		1	1	2	1	1							1	2	1
Butyl Mercaptan	3	3	2	2	2	2	1					1							3	1	2	1
Butyric Acid	3	3	2	1	1	1	1	1	2	1	1	1	2	1			3	3	3	1	2	2
Calcium Acetate	3	2	1	1	1	1	1		1	1	1	1				3				1	3	1
Calcium Bisulfite	3	3	2	1	1		1	-	1	1	1	1	1	-	1	1	-	1	1	1	1	3
Calcium Carbonate		1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Calcium Chlorate	2	2	1	1	2		1	2	1	1	1	1	1	-	1	1	-	-	1	1	1	1
Calcium Chloride	3	3	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Calcium Fluoride	3	3		1	1	1	1		1			1	1						1	1	1	
Calcium Hydroxide	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Calcium Hypochlorite	3	3	2	2	2	3	1	1	1	2	1	1	1	1	1	1	1	2	1	1	1	1
Calcium Nitrate	2	1	2	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Calcium Sulfate	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Cane Sugar Liquors				1	1		1		1	1		1				1			1	1	1	1
Carbolic Acid (Phenol)	3	3	1	1	1	1	1	2	1	1	2	1	2	2	3		3	3		1	1	2
Carbon Bisulfide	1	1	1	1	1	1	1	-	3	3	1	1	3	-	3	3	1	3	2	1	1	3
Carbon Dioxide	3	3	1	1	1	1	1	-	1	1		1	1	-		1	1	-		1	1	
Carbon Tetrachloride	1	1	1	1	1	2	1	1	2	3	1	1	3	3	3	3	1	2	2	1	2	3
Carbonic Acid	3	3	1	1	1	1	1	-	1	1	1	1	1	1	1	1	1	2	1	1	1	1
Castor Oil	2	2	1	1	1	1	1	-	1	1	1	1	1	-	1	1	1	1	1	1	1	2
Caustic Soda (to 50%)	2	2	1	1	2	1	1		1	1	1	1	1		1	1			1	1	1	1
Cellosolve	1	1	1	1	1	1	1													1	2	1
Chloral Hydrate					1				1	1	1	1								1	1	
Chloracetic Acid	3	3	3	3	1	2	1	1	3	3	1	1	3	-			1	3	1	1	3	2
Chlorine (Sodium Hypo.)	3	3	3	3	3		1		1	2	1	1	2		1	1			1	1	1	2



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Chemical or Solution																						
Ferrous Chloride	3	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1
Ferrous Sulfate	3	2	3	2	1	2	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1
Floussilicic Acid	3	3	3	2	2	3	2	3	1	1	1	1	1	1	1	1	3	1	1	1	1	1
Fromaldehyde	2	2	1	1	1	1	1	1	1	1	1	1	1	3	1		1	2	2	1	1	2
Formic Acid	3	3	1	1	1	1	1	2	2	1	1	1	1	1	1		1	3	1	1	3	1
Fruit Juice	3	3	2	1	1	1	1	-	1	1		3		1	1		1	1	1	3	1	
Freon	2	2		1	1		1	-	1	1		1		3		1	1	2		1	2	2
Fuel Oil	1	1	1	1	1	1	1		2	2	1	1	3		1				3	1	1	3
Furfural	1	1	1	1	1	1	1	-	3	3	2	1	3	3			1	3		1	3	2
Gallic Acid 5%		3	1	1	1			-	1	1	1	1	3	-		1	-	1	2	1	1	1
Gasoline	2	1	1	1	1	1	1	3	1	3	1	1		3	1	1	1	1	1	1	2	3
Glucose	1	1	1	1	1	1	1	-	1	1	1	1	1	2	1		1	1	1	1	1	1
Glycerin	2	2	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1
Glycolic Acid 30%								-	1	1	3	1		1		1	-	1	1	1	1	1
Heptane	1	2	1	1	1		1	-	1	3	1	1	3	3			1	1	1	1	1	3
Hydrazine	3	3	1	1				-	3			1	1	-			-	2	1	1	3	1
Hydrobromic Acid 20%	3	3	3	3	3	1	2	1	1	1	1	1	1	1	1	1	2	3	1	1	1	1
Hydrochloric Acid, Conc.	3	3	3	3	3	1	2		2	1	2	1	1		1	1			3	1	1	1
Hydrochloric Acid , dil.									1	1	1	1	1		1	1			2	1	1	1
Hydrocyanic Acid 10%	3	3	1	1	1	1	1	1	1	1	1	1	1	1		1	1	2	1	1	1	1
Hydrofluoric Acid	3	3	3	3	3	2	2		1	1	2	1	3			3			1	1	1	
Hydrogen Peroxide 90%				2								1			3	1			2	1		
Hydrogen Peroxide 40%	3	3	3	3	2		1		2	3	1	1			3	1			1	1	1	3
Hydrogen Sulfide	3	3	1	1	1		1		1	1	1	1	1		1	1			1	1	1	1
Hydrofluosilicic Acid	3	3	3	2	2	3	2	-	1		1	1	1	-			-	-		1	1	1
Hypochlorous Acid									1	1	1	1	1						3	1	2	2
Iodine Solutions			3	3	3	3	2	1	3	1	1	1	2	1	1	3	1	2	1	1	2	2
Kerosene		1	1	1	1	1	1	1	1	1	1	1	2	3	1		1	1	3	1	1	3
Lactic Acid to 60%	3	3	2	1	1	1	1	1	1	1	2	1	1	1	1	1	1	2	1	1	1	3
Lard Oil								-	1	1	1	1	2	-	1		1	1	3	1	1	1
Lead Acetate	3	3	1	1	1		1	1	1	1	1	1	1	1		1	1	2	3	1		1
Lime Slurries	1	1		1	1					1		1	1							1	1	
Linseed Oil	1	1	1	1	1		1		1	1	1	1	3			1			2	1	1	2
Magnesium Carbonate	1	1	1	1	1		1	-	1	1	1	1	1	1	1		1	1	2	1	1	1
Magnesium Chloride	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1
Magnesium Hydroxide	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1
Magnesium Nitrate	2	1	1	1	1		1	1	1	1	1	1	1	1	1		1	1	1	1	1	1
Magnesium Sulfate	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1
Maleic Acid	3	3	1	1	1	1	1	1	1	1		1	3	1		1	1	3	3	1	1	1
Malic Acid	3	3	1	1	1	1	1	-	1	1	1	1	3	-		1	1	-	1	1	1	3
Mercuric Chloride	3	3	3	3	1	3	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1

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Mercuric Cyanide		3	1	1				1	1	1	1	1	1	1		1	1	1		1	1	1
Methyl Acetate			1	1				-	3	2		1		-			1	3		1	3	2
Methyl Acetone		1	1	1	1			-	3					3			1	3				
Methyl Alcohol	1	1	1	1	1	1	1	-	1	1		1	1	-		1	-	2	1	1	2	1
Methylamine		1	1	1	1			-	3	3	3	1		2			1	2		1		1
Methyl Bromide				1	1	1	1	-	3		1	1	3	-			1	2		1	1	3
Methyl Cellosolve		1	1	1	1			-	3		1			2			1	3			3	3
Methyl Chloride (liq.)	1	2	1	1	1	1	1	1	3		1	1	3	3			1	3	3	1	3	2
Methyl Ethyl Ketone	1	1	1	1	1		1	1	3	2	3	1	3	3	3		1	3	3	1	3	2
Methyl Sulfate									2	1	1	1			3					1		
Methylene Chloride		1	1	1				1	3	3	3	1	3	3			1	3		1	2	3
Milk	3	3	1	1	1	1	1	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mineral Oil	1	1	1	1	1	1	1	-	2	3	1	1	3	2	1	1	1	1	1	1	1	3
Molasses	1	1	1	1	1		1	-	1	1		1	1	2			1	1	1	1	1	1
Mono Chloroacetic Acid	3	3	3	3	2	1	1	1	1	2	1	1		-		-	3	3	1	2	3	
Monosodium Phosphate	3	3		1	1		1		1	1		1							1	1	1	
Morpholine	1	1	1	1	1	1	1	-	1	3		1		3			-	3	3	1	3	
Naphtha	1	1	1	1	1	1	1	1	1	1	1	1	3	3	1		1	2	3	1	1	3
Naphthalene	1	1	1	1	1		1	1	3	2	2	1	3	3			1	3	3	1	1	3
Nickel Chloride	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1
Nickel Nitrate	3	3	1	1	1		2	-	1	1	1	1	1	1			1	1	1	1	1	2
Nickel Sulfate	3	3	1	1	1	3	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1
Nicotinic Acid	3	1	1	1	1				1	3	3	1	3							1		
Nitric Acid to 10%	3	3	2	1	2	3	2	1	1	1	2	1	1	1	3	1	2	3	1	1	1	3
Nitric Acid to 30%	3	3		2	1		2		1	1	2	1	1		3	1			1	1	1	2
Nitric Acid to 70% 100°F	3	3	1	2	2	3	2		1	3	3	1	3		3	3			3	1	3	3
Nitrobenzene	1	1	1	1	1		1	1	3	2	3	1	3	3			1	3	3	1	1	2
Oils, Animal	1	1	1	1	1		1		1	1		1	2		1					1	1	1
Oils, Fuel	1	1	1	1	1		1	1	1	1	1	1		3	1		1	2	1	2	1	3
Oleic Acid	3	3		1	1	1	1	-	1	1	1	1	3	2		1	1	2	3	1	2	3
Oleum	3	1	2	1	1	3	1	-	3	3	3	1		-	3		1	2	2	1	3	3
Oxalic Acid	3	3	2	2	1	1	1	2	1	1	3	1	1	2	1		1	2	2	1	1	1
Palmitic Acid <200° F	3	3	1	1	1		1	-	3	1		1	2	-			-	1	2	1	1	2
Perchloroethylene Dry	2	2	1	1	1		1	-	3			1		3	3		1	2	3	1	3	
Perchloric Acid 10%	3	3	3	3	3			3	2	1	1	1	1	-	3	1	-	3	3	1	1	2
Phenol (Carbonic Acid)	3	3	1	1	1	1	1	2	1	1	2	1	2	2	3		3	3	3	1	2	1
Phosphoric Acid to 50%	3	3	2	2	1	1	1	1	1	1	1	1	2	1	1	1	2	3	2	1	1	1
Phosphoric Acid to 80%	3	3	2	2	1	1	1	2	1	1	2	1	2	1		1	3	3	2	1	1	1
Phosphorus Trichloride					1	3	1	1	3	3	1	1	1	-			-	3		1	3	3
Photographic Solutions								1	1	1		1	1	1	1		1	1	1	1	1	
Picric Acid	3	3	1	1	1	1	1	-	3	1	1	1	2	-	1		-	1	1	1	1	1



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Chemical or Solution																							
Sodium Dichromate	2	1		1	1		1		1	1	1	1	1						1	1	1	1	1
Sodium Ferricyanide	3	3		1	1		1		1	1	1	1	1						1	1	1	1	1
Sodium Ferrocyanide	3	3			1		1	-	1	1	1	1	1	1		1	1	1	1	1	1	1	1
Sodium Fluoride	3	2	2	2	1	2	2	1	1	1	1	1	1	-	1		-	3	1	1	1	1	1
Sod. Hexametaphosphate	3	3		1	1		1		1	1		1			1				1	1	1		
Sodium Hydrosulfite	3	3		1	1		1	-	1	1		1		-			-	2	1	1	1		
Sodium Hydroxide 20%	2	1	1	1	1	1	1	1	1	1	1	1		1	1	1	3	1	1	1	1	1	1
Sodium Hydroxide 20%	2	2	1	1	1	1	1				1	1								1	3	1	
Sodium Hydroxide 50%	2	1	1	1	2	1	1	1	1	1	1	1		1	1	1	3	1	1	1	3	1	
Sodium Hydroxide 50%	2	2	2	1	2						1	1								1	3	1	
Sodium Hypochlorite	3	3	3	3	3	2	1	1	1	2	1	1	1	1	1	1	3	2	1	1	2	2	2
Sodium Metaphosphate	3	3		1	1		1	-	1	1	1	1		1	1			1	1	1	1	1	1
Sodium Nitrate	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1		1	2	1	1	2	1	1
Sodium Nitrite	1	1		1	1		1	1	1	1	1	1		1			1	1	1	1	1	1	1
Sodium Perborate	1	1	1	1	1	1	1	-	1	1		1		1			1	2		1	1	1	1
Sodium Peroxide	1	1	1	1	1	1	1	-	1	1	1	1		-			1	2	1	1	1	1	1
Sodium Mono Phosphate	3	3	2	1	1	1	1		1	1		1							1	1	1	1	1
Sodium Di, Tri Phosphate	1	1	1	1	1	1	1		1	1		1							1	1	1	1	1
Sodium Polyphosphate	3	3	1	1	1	1	1	1	1	1		1		1			1	1	1	1	1		
Sodium Silicate	2	2	1	1	1	1	1	1	2	1	1	1		1	1		1	1	1	1	1	1	1
Sodium Sulfate	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1
Sodium Sulfide	3	3	2	1	1	1	1	1	1	1	1	1	1	1			1	2	1	1	1	1	1
Sodium Sulfite	1	1	1	1	1	3	1	1	1	1	1	1	1	1			-	1	1	1	1	1	1
Sodium Thiosulfate	3	3	2	2	1	1	1	1	1	1	1	1		1			2	2	1	1	1	1	1
Stannic Chloride	3	3	3	3	3		1	1	1	1	1	1	1	1		1	1	1	2	1	1	1	1
Stannous Chloride				2			1	1	1	1	1	1	1	-			-	2	1	1	1	1	2
Starch	2	2	1	1	1	1	1	-	1	1		1	1	1			1	1	1	1	1	1	1
Stearic Acid	3	3	2	1	1	1	1	1	1	1		1	1	1			1	2	2	1	1	3	3
Sugar Solutions	1	1	1	1	1	1	1	-	1	1		1		1			-	1	1	1	1	1	1
Sulfamic Acid	3	3		2	2		1		1	1		1							1	1			
Sulfur, Molten	1	1	1	1	1	1	1		3	3		1	3						2	1	1	3	3
Sulfur Chloride	3	3	3	1	1	1	1	-		3	1	1		1			-	3		1	1	3	3
Sulfur Dioxide	1	1	1	1	1	1	1	1	1	1	1	1	2	3		3	1	3	1	1	1	1	1
Sulfuric Acid 0-40%	3	3	3	3	1	3	1		1	1	1	1	1			1			2	1	1	1	1
Sulfuric Acid 40-95%	3	3	3	3	1	1	1		1	3	2	1	3		3	2			2	1	1	1	1
Sulfuric Acid +95%	1	1	3	3	1	1	1		2	3	2	1	3		3	3			2	1	1	3	3
Sulfurous Acid 10%	3	3	2	2	1		1			1	2	1	1						1	1	1	1	1
Tannic Acid	1	2	1	1	1	1	1	1	1	1	1	1	1	1			1	3	1	1		2	2
Tartaric Acid	2	2	2	1	1	1	1	1	1	1	1	1	1	1			1	3	1	1	1	1	1
Tetrachloroethane				2				1	3	1		1		3			1	3	3	1	1	3	3
Tetrahydrofuran								-	3		3	1	3	3			1	3	3	1	3	3	3

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Chemical or Solution																							
Tetraethyl Lead									2	1	1	1							1	1	1	3	
Tetralin									1	2	1	1	2		3					1	1		
Tin Salts								1	1	1	1	1	1	-	1		-	1	1	1			
Titanium Dioxide	1	1	1	1	1	1	1		2											1		1	
Titanium Tetrachloride	3	3		1	1		1		3	2		1				3			1	1	1		
Toluene	1	1	1	1	1	1	1	1	3	3	1	1	3	3	3		1	3	3	1	2	3	
Tributyl Phosphate	2	2		1	1		1		3	3	1	1				3			3	1	3	1	
Trichloroethylene	1	1	1	1	1	1	1	1	3	2	1	1	3	3	3		1	3	3	1	1	3	
Triethanolamine	2	2		1	1		1		2	1	1	1	2						1	1	1		
Tricresyl Phosphate	2	2		1	1		1	2	3	3		1		1			3	3	3	1	1		
Triethylamine	1	2		1	1		1	-	1	3	1	1		2			1	1		1	1		
Trisodium Phosphate	1	1		1	1		1	-	1	1	1	1	1	1		1	-	1	1	1	1	1	
Turpentine	1	1	1	1	1		1	-	1	2	1	1	3	3	3	3	1	3	3	1	1	2	
Urea Fromaldehyde	1	1	1	1	1	1	1	1	1	1		1	1	1			2	2		1	1	1	
Varnish	2	2	1	1	1	1	1	-		1	1	1		3			1	2		1	1	3	
Vinegar	3	3	1	1	1		1	1	1	1		1	1	1	1		-	2	1	1	1	1	
Vinyl Acetate		1		1				-	3		1	1		-			2	3		1	3	3	
Water, Deionized	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	
Water, Distilled				1	1	1	1	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Water, Salt	3	3	3	2	1		3	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Whiskey	3	3	1	1	1		1	-	1	1	1	1	1	1	1		1	1	1	1	1	1	
Wines			1	1	1			-	1	1	1	1	1	1	1		1	1	1	1	1	1	
Xylene	2	2	1	1	1		1	-	3	3	1	1	3	3	3		1	3	1	1	1	3	
Zinc Borate	1	1		1	1		1		1	1		1							1	1	1		
Zinc Chloride	3	3	3	3	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	
Zinc Hydrosulfite	3	3	2	2	1	1	1	-	1					1			1	1		1	1		
Zinc Nitrate	3	3		1	1		1		1	1	1	1							1	1	1	1	
Zinc Phosphate	3	3		1	1		1		1	1		1							1	1	1		
Zinc Stearate	2	2		1	1		1		1	1		1							1	1	1		
Zinc Sulfate	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

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