

St. Marys Carbon Company

Chemical Resistance Chart

Chemical	Category						Chemical	Category					
	A	B	C	D	E	F		A	B	C	D	E	F
Acetic Acid	★	★	★	★	✓	✖	Isobutyl Alcohol	★	★	★	★	★	★
Acetic Anhydride	★	★	★	★	✓	✖	Isopropanol	★	★	★	★	★	★
Acetone	★	★	★	★	★	★	Lactic Acid	★	★	★	★	✖	★
Acetylene	★	★	★	★	★	★	Magnesium Hydroxide	★	★	★	★	✖	✓
Ammonia	★	★	★	★	✖	✖	Magnesium Sulfate	★	★	★	★	✖	★
Ammonium Carbonate	★	★	★	★	✖	✖	Methane	★	★	★	★	★	★
Ammonium Chloride	★	★	★	★	✖	✖	Methanol	★	★	★	★	★	★
Ammonium Hydroxide	★	★	★	★	✖	✖	Mineral Oil	★	★	★	★	★	★
Ammonium Thiocyanate	★	★	★	★	✖	✖	Muriatic Acid	★	★	★	★	✖	✖
Anti-freeze	★	★	★	★	✓	★	Nickel Chloride	★	★	★	★	✖	✖
Aqua Regia	✓	✖	✓	✓	✖	✖	Nickel Sulfate	★	★	★	★	✖	✖
Benzene	★	★	★	★	★	★	Nitric Acid (to 15%)	★	★	★	★	✖	✖
Benzonic Acid	★	★	★	★	✖	★	Oleic Acid	★	★	★	★	✖	★
Boric Acid	★	★	★	★	✖	✖	Oxalic Acid	★	★	★	★	✖	✖
Bromine	✖	✓	★	✓	✖	✖	Pentane	★	★	★	★	★	★
Butyl Alcohol	★	★	★	★	★	★	Phenol	★	★	★	★	✖	★
Calcium Chloride	★	★	★	★	✖	✖	Phosphoric Acid	★	★	★	★	✖	✖
Calcium Hydroxide	★	★	★	★	✖	✖	Picric Acid	★	★	★	★	✖	✖
Calcium Hypochlorite	★	★	★	★	✖	✖	Polystyrene	★	★	★	★	★	★
Carbolic Acid	★	★	★	★	✖	✖	Polyurethane	★	★	★	★	★	★
Carbon Disulfide	★	★	★	★	✖	✖	Potassium Carbonate	★	★	★	★	✖	✖
Carbon Tetrachloride	★	★	★	★	★	★	Potassium Chloride	★	★	★	★	✖	✖
Carbonic Acid	★	★	★	★	✖	✖	Potassium Hydroxide	★	★	★	★	✖	✖
Chlorobenzene	★	★	★	★	★	★	Potassium Nitrate	★	★	★	★	✖	★
Chlorine (Anhydrous)	★	★	★	★	✖	✖	Potassium Sulfate	★	★	★	★	✖	✓
Chloroform	★	★	★	★	★	★	Propane	★	★	★	★	★	★
Chrome Plating Solution	★	★	★	★	✖	✖	Silicone	★	★	★	★	✓	★
Chromic Acid	✖	✓	★	✓	✖	✖	Silver-cyanide	★	★	★	★	✖	✓
Citric Acid	★	★	★	★	✖	★	Soda Ash (Na ₂ CO ₃)	★	★	★	★	✖	✖
Copper Chloride	★	★	★	★	✖	✖	Sodium Borate	★	★	★	★	✖	★
Copper Sulfate	★	★	★	★	✖	★	Sodium Chloride	★	★	★	★	✖	★
Cyclohexane	★	★	★	★	★	★	Sodium Hydroxide	★	★	★	★	✖	✖
Dichlorobenzene	★	★	★	★	★	★	Sodium Hypochlorite	✓	✖	★	✓	✖	✖
Ethane	★	★	★	★	★	★	Sodium Nitrate	✖	✖	✓	✓	✖	✖
Ethyl Alcohol	★	★	★	★	★	★	Sodium Peroxide	★	★	★	★	✖	✓
Ethyl Chloride	★	★	★	★	✖	✖	Sodium Sulfate	★	★	★	★	✖	✓
Ethylene	★	★	★	★	★	★	Stannic Chloride	★	★	★	★	✖	✓
Ferric Chloride	★	★	★	★	✖	✖	Steam (to 500° F)	★	★	★	★	★	✖
Ferrous Sulfate	★	★	★	★	✖	✖	Sulfuric Acid (to 77%)	★	✓	★	★	✖	✖
Formaldehyde	★	★	★	★	★	★	Sulfuric Acid (>78%)	✖	✖	★	✓	✖	✖
Formic Acid	★	★	★	★	✖	✖	Tartaric Acid	★	★	★	★	✖	★
Gasoline	★	★	★	★	★	★	Tetrachloroethane	★	★	★	★	★	★
Glycol	★	★	★	★	✓	★	Toluene	★	★	★	★	★	★
Hydrobromic Acid 48%	★	★	★	★	✖	✖	Trichloroethylene	★	★	★	★	★	★
Hydrochloric Acid	★	★	★	★	✖	✖	Vinyl Chloride	★	★	★	★	★	★
Hydrofluoric Acid 68%	★	★	★	★	✖	✖	Water	★	★	★	★	★	★
Hydrogen Peroxide	★	★	★	★	✖	✖	Zinc Chloride	✓	✓	✓	★	✖	✖
Hydrogen Sulfide	★	★	★	★	✖	✖	Zinc Sulfate	★	★	★	★	✖	✖
Kerosene	★	★	★	★	★	★							

Category Ratings: ★=good, ✓=fair, ✖=poor

A=Carbon/Graphite

B=Carbon/Graphite with Resin

C=Carbon/Graphite with Resin and Coked

D=Electro Graphite

E=Electrographitic with high temperature treat

F=Carbon/Graphite with Metal impregnate



Dave Asermily

01/10/2006 11:51 AM

To: Tom Gregory/Corporate/THOMASIND@THOMASIND, Alfred Jones/Corporate/THOMASIND@THOMASIND, Pete Knauerhase/Corporate/THOMASIND@THOMASIND
cc: Mike Walker/Corporate/THOMASIND@THOMASIND, J Greco/Corporate/THOMASIND@THOMASIND
Subject: Chemsteel Graphite Bearings for Strong Oxidizers

Gents,

You may recall that our resinated carbon graphite bearings are not recommended for handling chemicals known to be strong oxidizers such as hydrogen peroxide. Generally, teflon bearings are specified, but of course that carries a lower operating pressure limit restriction and trim code considerations for elevated temperatures.

For operating conditions beyond teflon limits, consider straight graphite bearings (material). It says that (for smaller batches) some of our Chemsteel sizes can be machined from the plate stock they normally carry. Obviously, large batches would be molded using existing Chemsteel Carbon Bearing tooling.

Keep it in mind so we can price the next inquiry for you using graphite bearings.

Here's a list of known oxidizers:

- Nitric Acid
- Chromic Acid
- Chlorosulfonic Acid
- Sodium Hypochlorite
- Hydrogen Peroxide
- Potassium Permanganate
- Potassium Bichromate
- Sodium Bichromate
- Ozone
- Bromine
- Iodine
- Nitrogen Tetroxide
- Peroxyacetic Acid
- Peroxybenzoic Acid

- Hydrochloric Acid
- Hydrobromic Acid
- Hydrofluoric Acid
- Chlorine

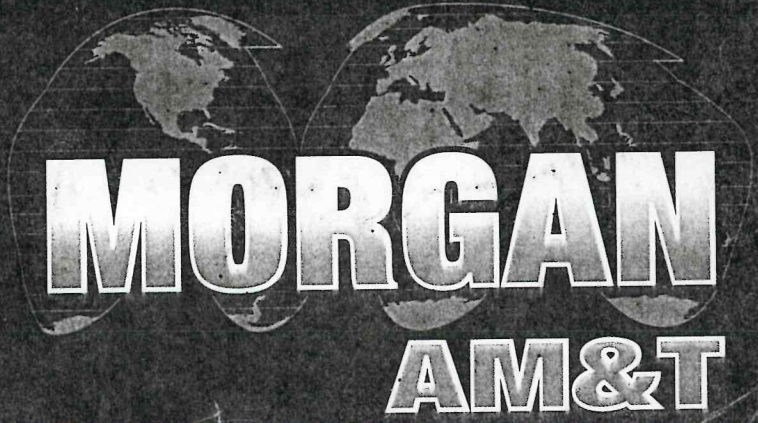
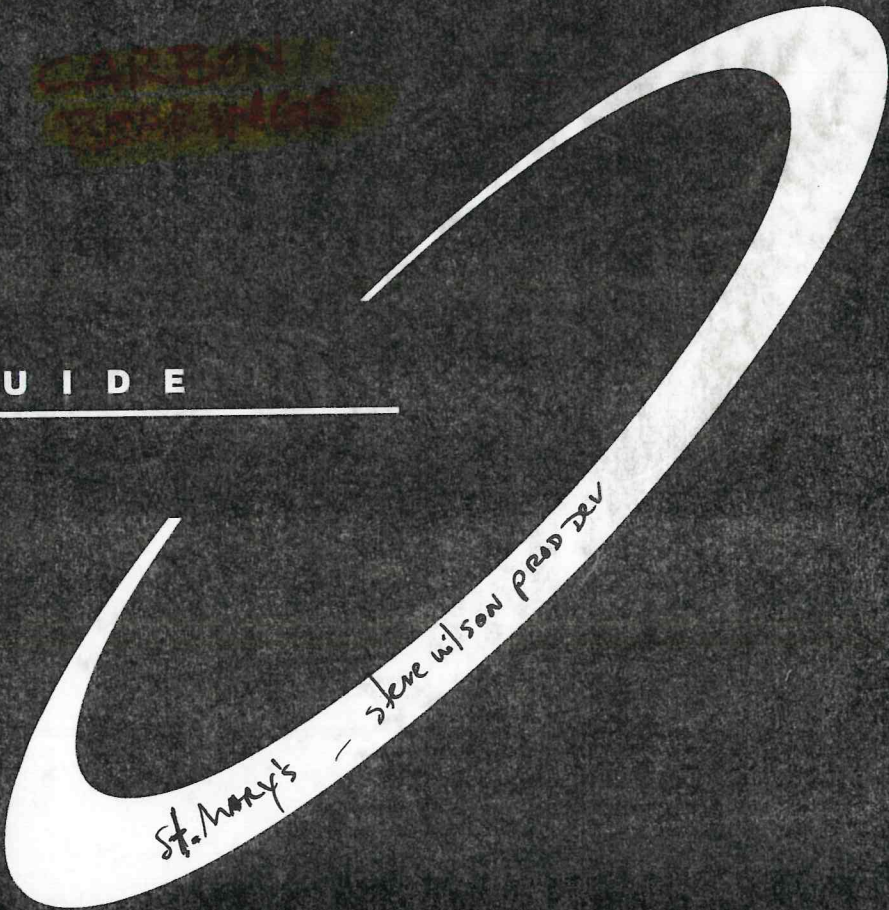
Sodium Peroxide

MEKP (methyl ethyl ketone peroxide)

chemical

compatibility

GUIDE



Medium	Temperature	Concentration	Carbon-Graphite					Graphite					Silicon Carbide		
			Base	Resin	Antimony	Babbitt	Copper	Base	Resin	Antimony	Babbitt	Copper	Reaction Bonded	Self Sintered	Siliconized Graphite
Abietic Acid			+	+	+	+	+	+	+	+	+	+	+	+	+
Acetaldehyde			+	+	+	+	+	+	+	+	+	+	+	+	+
Acetanilide			+	+	?	?	?	+	+	?	?	?	+	+	+
Acetate Solvents			+	+				+	+				+	+	+
Acetates, Esters, Petroleum Derivatives			+	+				+	+				+	+	+
Acetic Acid	177		+	?	0	0	?	+	?	0	0	?	+	+	+
Acetic Anhydride	177		+	+	?	0	?	+	+	?	0	?	+	+	+
Acetone	56	100	+	+	+	+	+	+	+	+	+	+	+	+	+
Acetophenone			+	+	+	+	+	+	+	+	+	+	+	+	+
Acetylene			+	+	+	+	+	+	+	+	+	+	+	+	+
Acetylsalicylic Acid (Aspirin)			+	+	+	+	+	+	+	+	+	+	+	+	+
Acid, Acetic Propionic			+	+				+	+				+	+	+
Acid, Arsenic, Ortho-			+	+				+	+				+	+	+
Acid, Ascorbic			+	+				+	+				+	+	+
Acid, Boiler Phosphates			+	+				+	+				+	+	+
Acid, Chlorous			0	0				0	+				+	+	?
Acid, Coconut, Fatty			+	+				+	+				+	+	+
Acid, Fluoboric			+	+				+	+				+	+	+
Acid, Gallic			+	+				+	+				+	+	+
Acid, Hydroxyacetic			+	+				+	+				+	+	+
Acid, Levulinic			+	+				+	+				+	+	+
Acid, Monochloro-Acetic			+	+				+	+				+	+	+
Acid, Naphthenic			+	+				+	+				+	+	+
Acid, Nitrous			+	+				+	+				+	+	+
Acid, Organic			+	+				+	+				+	+	+
Acid, Phenolacetic			+	+				+	+				+	+	+
Acid, Phenolsulfonic			+	+				+	+				+	+	+
Acid, Prussic			+	+				+	+				+	+	+
Acid, Salicyc			+	+				+	+				+	+	+
Acid, Sorbic			+	+				+	+				+	+	+
Acid, Uric			+	+				+	+				+	+	+
Acid, Uric (Methyl)			+	+				+	+				+	+	+
Acid, Valeric			+	+				+	+				+	+	+
Acrolein, Gas			+	+	+	+	+	+	+	+	+	+	+	+	+
Acrolein, Solvent			+	+	+	+	+	+	+	+	+	+	+	+	+
Acrylonitrile			?	?	0	0	?	0	?	0	0	?	+	+	+
Adipic Acid			+	+	?	?	?	+	+	?	?	?	?	+	+
Air, Anhydrous	< 200		?	?	?	?	?	?	?	?	?	?	?	+	?
Air (Cryogenic)			0	0	0	0	0	0	0	0	0	0	0	+	0

NOTE: Variables such as temperatures, concentrations, and exposure times prohibit flat approval of some chemicals for use with all or certain grades. Consult our Application Engineering group for guidance on questionable applications.

+ Compatible, no known interaction

0 Not Recommended

? Questionable, depends on conditions

Medium

	Temperature	Concentration	Carbon-Graphite					Graphite					Silicon Carbide		
			Base	Resin	Antimony	Babbitt	Copper	Base	Resin	Antimony	Babbitt	Copper	Reaction Bonded	Self Sintered	Siliconized Graphite
Air, Inert	< 200		+	+	+	+	+	+	+	+	+	+	+	+	+
Air, Oxidizing	> 200		0	0	?	0	?	?	0	?	0	?	?	+	0
Alcohol, Allyl			+	+				+	+				+	+	+
Alcohol, Grain			+	+				+	+				+	+	+
Alcohol & Lubricating Oil			+	+				+	+				+	+	+
Aldehyde			+	+				+	+				+	+	+
Ale			+	+				+	+				+	+	+
Alkali Cleaner									+				?	+	?
Alkanes			+	+				+	+				+	+	+
Alkyd Resins			+	+				+	+				+	+	+
Alkyl Aryl Sulfonate			+	+	+	+	+	+	+	+	+	+	+	+	+
Alkyl-Arylsulphonics			+	+				+	+				+	+	+
Alkylate (Light)			+	+				+	+				+	+	+
Allyl Acetone			+	+				+	+				+	+	+
Allyl Amine									+				+	+	?
Allyl Benzene			+	+				+	+				+	+	+
Allyl Chloride			+	+	?	?	?	+	+	?	?	?	+	+	+
and Oil			+	+				+	+				+	+	+
Alpha Picoline			+	+				+	+				+	+	+
Alum (ammonia)			+	+	0	0	0	+	+	0	0	0	+	+	+
Alum (chrome)			+	+	0	0	0	+	+	0	0	0	+	+	+
Alum (potash)			+	+	0	0	0	+	+	0	0	0	+	+	+
Aluminum Acetate			+	+				+	+				+	+	+
Aluminum Chlorate									+				?	+	?
Aluminum Chloride, Acids & Acid Solutions			+	+	0	0	0	+	+	0	0	0	?	+	?
Aluminum Chloride, Melts			?	0	0	0	?	+	0	0	0	?	0	+	0
Aluminum Hydroxide								+	+				+	+	+
Aluminum (molten)			+	?	0	0	?	+	?	0	0	?	0	+	?
Aluminum Nitrate								+	+				+	+	+
Aluminum Sulfate			+	+	0	0	0	+	+	0	0	0	+	+	+
Amine									+				+	+	+
Amine, Fat Condensate									+				+	+	+
Aminosulphonic acid	100	40	+	+	+	+	0	+	+	+	+	0	+	+	+
Ammonia (anhydrous)			?	?	?	?	?	?	?	?	?	?	?	+	?
Ammonia (anhydrous, cryogenic)			0	?	0	0	?	0	?	0	0	?	0	+	?
Ammonia (anhydrous), Reducing			+	+	+	+	+	+	+	+	+	+	+	+	+
Ammonia Aqueous									+				+	+	?
Ammonia (Gas)	100	100	+	+	+	+	0	+	+	+	+	0	+	+	+
Ammonia, Gas (Dry)									+				?	+	?

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Medium	Temperature	Concentration	Carbon-Graphite					Graphite					Silicon Carbide		
			Base	Resin	Antimony	Babbitt	Copper	Base	Resin	Antimony	Babbitt	Copper	Reaction Bonded	Self Sintered	Siliconized Graphite
Ammonia, Liquid								+				?	+	?	
Ammonia & Oil			+	+				+	+			+	+	+	
Ammonia (wet), Alkalis & Alkaline Solutions	< 150		+	?	?	?	?	+	?	?	?	?	+	?	
Ammonia (wet), Gases	< 150		+	?	0	0	?	+	?	0	0	?	+	?	
Ammoniacal Liquor (Gas Production)			+	+	0	0	0	+	+	0	0	0	+	?	
Ammonium Acetate			+	+				+	+				+	?	
Ammonium Bicarbonate			+	+	0	0	0	+	+	0	0	0	+	+	
Ammonium Bifluoride			+	+	0	0	0	+	+	0	0	0	?	+	
Ammonium Bromide			+	+				+	+				+	+	
Ammonium Carbonate			+	+	0	0	0	+	+	0	0	0	+	?	
Ammonium Chloride			+	+	0	0	0	+	+	0	0	0	+	+	
Ammonium Hydroxide			+	?	?	?	?	+	?	?	?	?	?	?	
Ammonium Hydroxide (Aqueous)	50	25	+	+	+	+	0	+	+	+	+	0	+	?	
Ammonium Nitral		75%	+	+				+	+				?	+	
Ammonium Nitrate			+	+	0	0	0	+	+	0	0	0	+	+	
Ammonium Phosphate			+	+	+	+	+	+	+	+	+	+	+	+	
Ammonium Phosphate (Dibasic)			+	+	0	0	0	+	+	0	0	0	+	+	
Ammonium Phosphate (Monobasic)			+	+	0	0	0	+	+	0	0	0	+	+	
Ammonium Phosphate (Tribasic)			+	+	0	0	0	+	+	0	0	0	+	+	
Ammonium Sulfate			+	+	0	0	0	+	+	0	0	0	+	+	
Ammonium Sulphide									+				+	+	
Ammonium Thiocyanate			+	+	0	0		+	+	0	0	0	+	+	
Ammonium Thiocyanide			+	+				+	+				+	+	
Amyl Acetate			+	+	?	?	?	+	+	?	?	?	+	+	
Amyl Alcohol			+	+	+	+	+	+	+	+	+	+	+	+	
Amyl Amines			+	+	?	?	?	+	+	?	?	?	+	+	
Amyl Benzoate			+	+	0	0	0	+	+	0	0	0	+	+	
Amyl Butyrate	185		+	+	0	0	0	+	+	0	0	0	+	+	
Amyl Chloride			+	+	?	?	?	+	+	?	?	?	+	+	
Amyl Formate	130		+	+	0	0	0	+	+	0	0	0	+	+	
Amyl Nitrate	104		+	+	0	0	0	+	+	0	0	0	+	+	
Amyl Phthalate			+	+	0	0	0	+	+	0	0	0	+	+	
Amyl Propionate	166		+	+	0	0	0	+	+	0	0	0	+	+	
Angamol Oil			+	+				+	+				+	+	
Aniline			+	+	?	?	?	+	+	?	?	?	+	+	
Aniline Hydrochloride			+	+	0	0	0	+	+	0	0	0	+	+	
Anit-Biotic Fermentation Broth (w/o Solvent)			+	+				+	+				+	+	
Anit-Biotic Fermentation Broth (w/Solvent)			+	+				+	+				+	+	
Anthracene			+	+	+	+	+	+	+	+	+	+	+	+	

NOTE: Variables such as temperatures, concentrations, and exposure times prohibit flat approval of some chemicals for use with all or certain grades. Consult our Application Engineering group for guidance on questionable applications.

Medium

	Temperature	Concentration	Carbon-Graphite					Graphite					Silicon Carbide		
			Base	Resin	Antimony	Babbitt	Copper	Base	Resin	Antimony	Babbitt	Copper	Reaction Bonded	Self Sintered	Siliconized Graphite
Anti-Freeze (Glycol)	200		+	+	+	+	+	+	+	+	+	+	+	+	+
Antimony			+	?	0	0	?	0	?	0	0	?	0	+	?
Aqua Regia	107	100	+	+	0	0	0	+	+	0	0	0	0	+	+
Arcton 0 (Freon 14)	-128		+	+	+	+	+	+	+	+	+	+	+	+	+
Arcton 1 (Freon 23)			+	+	+	+	+	+	+	+	+	+	+	+	+
Arcton 3 (Freon 13)	-80		+	+	+	+	+	+	+	+	+	+	+	+	+
Arcton 33 (Freon 114)	4		+	+	+	+	+	+	+	+	+	+	+	+	+
Arcton 4 (Freon 22)	-41		+	+	+	+	+	+	+	+	+	+	+	+	+
Arcton 6 (Freon 12)	-28		+	+	+	+	+	+	+	+	+	+	+	+	+
Arcton 63 (Freon 113)	48		+	+	+	+	+	+	+	+	+	+	+	+	+
Arcton 7 (Freon 21)	9		+	+	+	+	+	+	+	+	+	+	+	+	+
Arcton 9 (Freon 11)	24		+	+	+	+	+	+	+	+	+	+	+	+	+
Argon, Anhydrous			?	?	?	?	?	?	?	?	?	?	?	+	?
Argon Gas			+	+	+	+	+	+	+	+	+	+	+	+	+
Arochlor 1248			+	+				+	+				+	+	+
Arsenic (Molten)			+	?	0	0	?	+	?	0	0	?	0	+	?
Asphalt			+	+	+	+	+	+	+	+	+	+	+	+	+
Aspirin			+	+				+	+				+	+	+
ASTM Oil #1			+	+				+	+				+	+	+
ASTM Oil #2			+	+				+	+				+	+	+
ASTM Oil #3			+	+				+	+				+	+	+
ASTM Oil #4			+	+				+	+				+	+	+
Babbitt Metal (molten)			+	?	0	0	?	+	?	0	0	?	0	+	?
Baking Soda			+	+	+	+	+	+	+	+	+	+	+	+	+
Barium Chloride			+	+	0	0	0	+	+	0	0	0	+	+	+
Barium Hydroxide, Alkalis & Alkaline Solutions			+	?	?	?	?	+	?	?	?	?	+	+	+
Barium Hydroxide, Melts			?	0	0	0	?	?	0	0	0	?	+	+	+
Barium Nitrate			+	+	0	0	0	+	+	0	0	0	+	+	+
Barium Sulfate			+	+				+	+				+	+	+
Barium Sulfide			+	?	?	?	?	+	?	?	?	?	+	+	+
Battery acid (sulfuric acid)			+	+	0	0	0	+	+	0	0	0	0	+	+
Bauxite			+	+				+	+				+	+	+
Beer			+	+	+	+	+	+	+	+	+	+	+	+	+
Beet Juice			+	+				+	+				+	+	+
Beet Pulp			+	+				+	+				+	+	+
Beet Sugar			+	+	0	0	0	+	+	0	0	0	+	+	+
Benzaldehyde			+	+	+	+	+	+	+	+	+	+	+	+	+
Benzene (Aliphatic)			+	+				+	+				+	+	+
Benzene (benzol)			+	+	+	+	+	+	+	+	+	+	+	+	+

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Medium

Medium	Temperature	Concentration	Carbon-Graphite					Graphite					Silicon Carbide		
			Base	Resin	Antimony	Babbitt	Copper	Base	Resin	Antimony	Babbitt	Copper	Reaction Bonded	Self Sintered	Siliconized Graphite
Benzene Sulfonic Acid			+	?	0	0	?	+	?	0	0	?	0	+	?
Benzoic Acid			+	+	+	+	+	+	+	+	+	+	+	+	+
Benzol			+	+				+	+				+	+	+
Beta-Naphthol			+	+	+	+	+	+	+	+	+	+	+	+	+
Bichloride of Mercury			+	+	0	0	0	+	+	0	0	0	+	+	+
Bismuth (molten)			+	?	0	0	?	+	?	0	0	?	0	+	?
Black Ash			+	?	?	?	?	+	?	?	?	?	?	+	?
Black Sulfate Liquor			+	?	?	?	?	+	?	?	?	?	?	+	?
Bleach Liquor, Sodium Hypochlorite	50	75g	+	+	+	0	0	+	+	+	0	0	?	+	+
Bleach Liquor, Sodium Hypochlorite	100	75g	0	0	0	0	0	0	0	0	0	0	?	+	0
Bleach Liquor, Sodium Hypochlorite	20	150g	+	0	+	0	0	+	0	+	0	0	?	+	0
Bleach Liquor, Sodium Hypochlorite	50	150g	+	0	0	0	0	+	0	+	0	0	?	+	0
Bleach Liquor, Sodium Hypochlorite	100	150g	0	0	0	0	0	0	0	0	0	0	?	+	0
Bleach Liquor, Sodium Hypochlorite	20	300g	+	0	+	0	0	+	0	+	0	0	?	+	0
Bleach Liquor, Sodium Hypochlorite	50	300g	?	?	?	?	?	?	0	0	0	0	?	+	0
Bleach Solution								+					?	+	+
Bleaching Powder								0					+	+	?
Blood			+	+				+	+				+	+	+
Bonderite Solutions			+	+				+	+				+	+	+
Borax			+	?	?	?	?	+	?	?	?	?	+	+	+
Boric Acid, Melts			?	0	0	0	?	+	0	0	0	?	0	+	0
Boric Acid, Mineral - Non Oxidizing			+	+	0	0	0	+	+	0	0	0	0	+	+
Boron Trichloride			+	+				+	+				+	+	+
Boron Trifluoride, Acids			+	+	0	0	0	+	+	0	0	0	+	+	+
Boron Trifluoride, Gas			+	+	0	0	?	+	+	0	0	?	+	+	+
<i>BRAKE FLUID</i> Brass (molten)			+	?	0	0	?	+	?	0	0	?	0	+	?
Bright Copper Plating Solution			+	+				+	+				+	+	+
Bright Nickel Plating Solution			+	+				+	+				+	+	+
Brine Calcium Chloride			+	+				+	+				+	+	+
Brine Calcium & Magnesium Chloride			+	+				+	+				+	+	+
Brine Calcium & Sodium Chloride			+	+				+	+				+	+	+
Brine Chloride			+	+				+	+				+	+	+
Brine, Sodium Chloride			+	+	+	+	+	+	+	+	+	+	+	+	+
Bromine	20	100	0	?	0	0	0	0	0	0	0	0	0	+	?
Bromo Methane			+	+				+	+				+	+	+
Bronze (molten)			+	?	0	0	?	+	?	0	0	?	0	+	?
Bunker "C" Fuel Oil			+	+				+	+				+	+	+
Butadiene			+	+	+	+	+	+	+	+	+	+	+	+	+
Butane			+	+	+	+	+	+	+	+	+	+	+	+	+

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0 Not Recommended

? Questionable, depends on conditions

Medium

	Temperature	Concentration	Carbon-Graphite					Graphite					Silicon Carbide		
			Base	Resin	Antimony	Babbitt	Copper	Base	Resin	Antimony	Babbitt	Copper	Reaction Bonded	Self Sintered	Siliconized Graphite
Butanol	118		+	+	+	+	+	+	+	+	+	+	+	+	
Butter, Buttermilk			+	+	+	+	+	+	+	+	+	+	+	+	
Butyl Acetate			+	?	+	+	+	+	?	+	+	+	+	+	
Butyl Alcohol			+	+	+	+	+	+	+	+	+	+	+	+	
Butyl Amines			+	?	0	0	?	+	?	0	0	+	+	+	
Butyl Benzoate	250		+	+	0	0	0	+	+	0	0	0	+	+	
Butyl Butyrate	166		+	+	0	0	0	+	+	0	0	0	+	+	
Butyl "Cellosolve"			+	+				+	+				+	+	
Butyl Formate	107		+	+	0	0	0	+	+	0	0	0	+	+	
Butyl Phosphate			+	+	+	+	+	+	+	+	+	+	+	+	
Butyl Phthalate	340		+	+	+	+	+	+	+	+	+	+	+	+	
Butyl Propionate	145		+	+	+	+	+	+	+	+	+	+	+	+	
Butylamine	78		+	+	0	0	0	+	+	0	0	0	0	+	
Butylene	-5		+	+	+	+	+	+	+	+	+	+	+	+	
Butyric Acid	164		+	+	0	0	0	+	+	0	0	0	0	+	
Cadmium (molten)			+	?	0	0	?	+	?	0	0	?	0	+	
Calcium Bisulfite			+	+	0	0	0	+	+	0	0	0	+	+	
Calcium Bisulphite			+	+	0	0	0	+	+	0	0	0	0	+	
Calcium Carbonate Slurry			+	+	0	0	0	+	+	0	0	0	0	+	
Calcium Chlorate			+	+				+	+				+	+	
Calcium Chloride, Acids			+	+	0	0	0	+	+	0	0	0	0	+	
Calcium Chloride, Melts			+	?	?	?	?	+	?	?	?	?	?	?	
Calcium Hydroxide			+	?	?	?	?	+	?	?	?	?	+	?	
Calcium Hypochlorite			+	?	?	?	?	+	?	?	?	?	+	?	
Calcium Nitrate			+	+	?	?	?	+	+	?	?	?	+	+	
Calcium Oxide			+	+				+	+				+	?	
Calcium Phosphate Slurry			+	+	+	+	+	+	+	+	+	+	+	+	
Calcium Sulphate			+	+				+	+				+	+	
Calgon (Sodium Hexametaphosphate)			+	+	+	+	+	+	+	+	+	+	+	+	
Caliche Liquors			+	+				+	+				+	+	
Camphor			+	+				+	+				+	+	
Candelilla Wax			+	+				+	+				+	+	
Cane Sugar			+	+	0	0	0	+	+	0	0	0	+	+	
Carbinal			+	+				+	+				+	+	
Carbitols			+	+				+	+				+	+	
Carbolic Acid (Phenol)			+	?	0	0	?	+	?	0	0	?	?	+	
Carbon Bisulphide/Disulphide	46		+	0	0	0	0	+	0	0	0	0	+	+	
Carbon Dioxide, Acid	< 315		+	+	0	0	?	+	+	0	0	?	0	+	
Carbon Dioxide, Acid	> 315		+	+	0	0	?	+	+	0	0	?	?	+	

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Medium

Medium	Temperature	Concentration	Carbon-Graphite					Graphite					Silicon Carbide		
			Base	Resin	Antimony	Babbitt	Copper	Base	Resin	Antimony	Babbitt	Copper	Reaction Bonded	Self Sintered	Siliconized Graphite
Carbon Dioxide, Anhydrous	< 315		?	?	?	?	?	?	?	?	?	?	?	+	?
Carbon Dioxide, Inert	< 315		+	+	+	+	+	+	+	+	+	+	+	+	+
Carbon Dioxide, Oxidizing	> 315		0	0	?	0	?	?	0	?	0	?	?	+	0
Carbon Disulfide			+	+	+	+	+	+	+	+	+	+	+	+	+
Carbon Monoxide			+	+	+	+	+	+	+	+	+	+	+	+	+
Carbon Tetrachloride			+	+	+	+	+	+	+	+	+	+	+	+	+
Carbonate of Soda									+				+	+	?
Carbonic Acid			+	+	0	0	0	+	+	0	0	0	+	+	+
Casein			+	+				+	+				+	+	+
Castor Oil			+	+	+	+	+	+	+	+	+	+	+	+	+
Catsup			+	+				+	+				+	+	+
Caustic (Chloride of Sodium)									+				+	+	?
Caustic Cyanogen			+	+				+	+				+	+	+
Caustic Manganese			+	+				+	+				+	+	+
Caustic Potash (Aqueous)									+				?	+	?
Caustic Soda			+	?	?	?	?	+	?	?	?	?	?	+	?
Caustic Strontia (Aqueous)									+				+	+	+
Cellosolve	135		+	0	+	+	+	+	0	+	+	+	+	+	+
Cellosolves			+	+	+	+	+	+	+	+	+	+	+	+	+
Cellulose Acetate (rayon)			+	+	+	+	+	+	+	+	+	+	+	+	+
Cheeses			+	+				+	+				+	+	+
Chinawood Oil			+	+				+	+				+	+	+
Chloracetic Acid			+	?	0	0	?	+	?	0	0	?	?	+	?
Chloral			+	+	+	+	+	+	+	+	+	+	+	+	+
Chlorethene			+	+	+	+	+	+	+	+	+	+	+	+	+
Chloride of Lime (saturated)	100		+	0	+	0	0	+	0	+	0	0	+	+	+
Chloride of Zinc									+				+	+	+
Chlorinated Solvents (Dry)									+				+	+	+
Chlorinated Solvents (Wet)									+				+	+	+
Chlorine (Dry)	100	100	+	+	0	0	0	+	+	0	0	0	+	+	+
Chlorine (Wet)	20	100	+	+	0	0	0	+	+	0	0	0	+	+	+
Chloroacetaldehyde			+	+				+	+				+	+	+
Chloroacetone			+	+				+	+				+	+	+
Chlorobenzene			+	+	+	+	+	+	+	+	+	+	+	+	+
Chlorobenzene, Di -			+	+				+	+				+	+	+
Chlorobenzene, Tri -			+	+				+	+				+	+	+
Chloroethylene									+				+	+	+
Chloroform			+	+	+	+	+	+	+	+	+	+	+	+	?
Chloromethyl Ether			+	+				+	+				+	+	+

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Medium

	Temperature	Concentration	Carbon-Graphite					Graphite					Silicon Carbide		
			Base	Resin	Antimony	Babbitt	Copper	Base	Resin	Antimony	Babbitt	Copper	Reaction Bonded	Self Sintered	Siliconized Graphite
Chloropicrin			+	+				+	+				+	+	+
Chlorosilane			+	+				+	+				+	+	+
Chlorosulfonic Acid			+	+	0	0	0	+	+	0	0	0	?	+	+
Chlorosulfonic Acid	20	100	?	?	0	0	0	0	0	0	0	0	+	+	0
Chlorothene									+				+	+	?
Chlorox									+				?	+	?
Chocolate			+	+	0	0	0	+	+	0	0	0	+	+	+
Chrome Alum			+	+				+	+				+	+	+
Chromic Acid	20	20	0	?	0	0	0	?	+	+	0	0	+	+	+
Chromic Acid	100	20	+	+	0	0	0	+	+	0	0	0	+	+	+
Chromic Acid	20	40	+	+	0	0	0	+	+	0	0	0	+	+	+
Chromic Acid	100	40	0	+	0	0	0	+	+	0	0	0	+	+	+
Chromic Acid	20	60	+	+	0	0	0	+	+	0	0	0	+	+	+
Chromic Acid	100	60	0	0	0	0	0	0	0	0	0	0	+	+	+
Chromic Oxide (Aqueous)			?	?				?	?				+	+	+
Chromium Potassium Sulfate			+	+	+	+	+	+	+	+	+	+	+	+	+
Cider			+	+				+	+				+	+	+
Citric Acid			+	+	?	+	?	+	+	?	+	?	+	+	+
Citrus Juices			+	+				+	+				+	+	+
Clay Slurry			+	+				+	+				+	+	+
Coal Gas			+	+				+	+				+	+	+
Coal Tar, Acids			+	+	+	+	+	+	+	+	+	+	+	+	+
Coal Tar, Solvents			+	+	+	+	+	+	+	+	+	+	+	+	+
Cocoa Butter			+	+	0	0	0	+	+	0	0	0	+	+	+
Cod Liver Oil			+	+				+	+				+	+	+
Coffee			+	+				+	+				+	+	+
Cola Drinks			+	+				+	+				+	+	+
Copper			+	?	0	0	?	+	?	0	0	?	+	+	?
Copper Acetate (Blue Verdigris)			+	+				+	+				+	+	+
Copper Ammonium Acetate (Aqueous)			+	+				+	+				+	+	+
Copper Chloride			+	+				+	+				+	+	+
Copper Cyanide			+	+	0	0	0	+	+	0	0	0	+	+	+
Copper Nitrate			+	+	0	0	0	+	+	0	0	0	+	+	+
Copper Strike Plating Solution									+				+	+	+
Copper Sulfate			+	+	0	0	0	+	+	0	0	0	+	+	+
Copperas (Green)			+	+				+	+				+	+	+
Core Oils			+	+				+	+				+	+	+
Corn Starch			+	+				+	+				+	+	+
Corn Syrup			+	+				+	+				+	+	+

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Medium	Temperature	Concentration	Carbon-Graphite					Graphite					Silicon Carbide		
			Base	Resin	Antimony	Babbitt	Copper	Base	Resin	Antimony	Babbitt	Copper	Reaction Bonded	Self Sintered	Siliconized Graphite
Cottonseed Oil			+	+	+	+	+	+	+	+	+	+	+	+	
Creosate			+	+			+	+			+	+	+		
Creosols			+	+			+	+			+	+	+		
Creosote, Acids			+	+	+	+	+	+	+	+	+	+	+		
Creosote, Solvents			+	+	+	+	+	+	+	+	+	+	+		
Cresol	200		+	+	0	0	0	+	+	0	0	0	+	+	+
Cresols, Cresylic Acid			+	+	+	?	?	+	+	+	?	?	+	+	+
Crotonaldehyde			+	+	+	+	+	+	+	+	+	+	+	+	
Cryogenics			+	+				+	+				+	+	+
Cumene			+	+	+	+	+	+	+	+	+	+	+	+	
Cupric Chloride			+	+	0	0	0	+	+	0	0	0	?	+	+
Cupric Sulfate			+	+				+	+				+	+	+
Cuprous Ammonium Acetate			+	+	0	0	0	+	+	0	0	0	?	+	+
Cyanic Acid			+	+	0	0	?	+	+	0	0	?	+	+	+
Cyanide Plating Solutions			+	?	?	?	?	+	?	?	?	?	?	+	?
Cyanogen			+	+				+	+				+	+	+
Cyclohexane			+	+	+	+	+	+	+	+	+	+	+	+	+
Cyclohexanol			+	+	+	+	+	+	+	+	+	+	+	+	+
Cyclohexene (Tetrahydrobenzene)			+	+	+	+	+	+	+	+	+	+	+	+	+
Cyclohexylamine			+	+				+	+				+	+	+
DDT Solution (Kerosene Solvent)			+	+	+	+	+	+	+	+	+	+	+	+	+
DDT Solution (Toluene Solvent)			+	+	+	+	+	+	+	+	+	+	+	+	+
De-Butanizer Reflux			+	+				+	+				+	+	+
De-Ethanizer Charge			+	+				+	+				+	+	+
De-Propanizer Reflux			+	+				+	+				+	+	+
Detergents			+	+	?	?	?	+	+	?	?	?	?	+	+
Dextrin			+	+				+	+				+	+	+
Dextrose			+	+				+	+				+	+	+
Di-Isobutyl Ketone			+	+	+	+	+	+	+	+	+	+	+	+	+
Di-Isopropyl Ketone			+	+	+	+	+	+	+	+	+	+	+	+	+
Diacetone			+	+	+	+	+	+	+	+	+	+	+	+	+
Diacetone Alcohol	165		+	0	+	+	+	+	0	+	+	+	+	+	0
Dibromoethyl Benzene			+	+	+	+	+	+	+	+	+	+	+	+	+
Dibutyl Amine									+				+	+	+
Dibutyl Cellosolve Adipate			+	+				+	+				+	+	+
Dibutyl Ether			+	+				+	+				+	+	+
Dibutyl Phosphate			+	+	+	+	+	+	+	+	+	+	+	+	+
Dibutyl Phthalate	340		+	+	+	+	+	+	+	+	+	+	+	+	+
Dichlorobenzene			+	+				+	+				+	+	+

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Medium

	Temperature	Concentration	Carbon-Graphite					Graphite					Silicon Carbide		
			Base	Resin	Antimony	Babbitt	Copper	Base	Resin	Antimony	Babbitt	Copper	Reaction Bonded	Self Sintered	Siliconized Graphite
Dichloroethane	84		+	+	+	+	+	+	+	+	+	+	+	?	
Dichlorohydrin			+	+											
Diesel Fuel	150		+	+	+	+	+	+	+	+	+	+	+	+	
Diethanol Amine			+	?	0	0	?	+	?	0	0	?	+	?	
Diethanolamine	268		+	+	+	+	+	+	+	+	+	+	+	+	
Diethyl Carbonate	126		+	+	+	+	+	+	+	+	+	+	+	+	
Diethyl Ether			+	+				+	+						
Diethyl Maleate			+	+				+	+						
Diethyl Phthalate	296		+	+	+	+	+	+	+	+	+	+	+	+	
Diethyl Sulfate			+	+	?	?	?	+	+	?	?	?	+	+	
Diethylamine									+				+	+	
Diethylaniline			+	+				+	+				+	+	
Diethylbenzene			+	+	+	+	+	+	+	+	+	+	+	+	
Diethylene Glycol	245		+	+	+	+	+	+	+	+	+	+	+	+	
Diethylene Triamine									+				+	+	
Dimethyl Formaldehyde			+	+				+	+				+	+	
Dimethyl Hydrazine									+				+	+	
Dimethyl Terephthalate			+	+				+	+				+	+	
Dinitrochlorobenzene	315		+	+	+	+	+	+	+	+	+	+	+	+	
Dinitrochlorobenzene & Styrene			+	+				+	+				+	+	
Dinitrotoluene			+	+				+	+				+	+	
Dioctyl Phthalate	300		+	+	+	+	+	+	+	+	+	+	+	+	
Dioctyl-Amine									+				+	+	
Dioctylamine			+	+	+	+	+	+	+	+	+	+	+	+	
Dioxane			+	+				+	+				+	+	
Dipentene			+	+				+	+				+	+	
Diphenyl	255		+	+	+	+	0	+	+	+	+	0	+	+	
Disodium Phosphate			+	?	?	?	?	+	?	?	?	?	+	+	
Doctor's Solution			+	+	?	?	?	+	+	?	?	?	+	+	
Dow Corning Silicone Fluid			+	+	+	+	+	+	+	+	+	+	+	+	
Dowtherm			+	+	+	+	?	+	+	+	+	?	+	+	
Dowtherm A			+	+	+	+	?	+	+	+	+	?	+	+	
Dowtherm E			+	+	+	+	?	+	+	+	+	?	+	+	
Drilling Mud			+	+	+	+	+	+	+	+	+	+	+	+	
Dye Wood Liquors			+	+				+	+				+	+	
Egg			+	+	+	+	+	+	+	+	+	+	+	+	
Electrolytic Cell Liquors			+	+				+	+				+	+	
Emel			+	+				+	+				+	+	
Epichlorohydrin			+	+	?	?	?	+	+	?	?	?	+	+	

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Medium

Medium	Temperature	Concentration	Carbon-Graphite					Graphite					Silicon Carbide		
			Base	Resin	Antimony	Babbitt	Copper	Base	Resin	Antimony	Babbitt	Copper	Reaction Bonded	Self Sintered	Siliconized Graphite
Ester-Type Plasticizers			+	+				+	+				+	+	+
Ethane, Gases - Anhydrous			?	?	?	?	?	?	?	?	?	?	+	+	?
Ethane, Gases - Inert			+	+	+	+	+	+	+	+	+	+	+	+	+
Ethane, Gases - Reducing			+	+	+	+	+	+	+	+	+	+	+	+	+
Ethanol Amine, Di -									+				+	+	?
Ethanol Amine, Mono-									+				+	+	?
Ethanol Amine, Tri -									+				+	+	?
Ethanol (Ethyl Alcohol)			+	+	+	+	+	+	+	+	+	+	+	+	+
Ether			+	+					+	+			+	+	+
Ether - Diethyl			+	+					+	+			+	+	+
Ether (Ethyl Ether)			+	+	+	+	+	+	+	+	+	+	+	+	+
Ether - Petroleum			+	+					+	+			+	+	+
Ethyl Acetate			+	+	+	+	+	+	+	+	+	+	+	+	+
Ethyl Acrylate			+	+					+	+			+	+	+
Ethyl Alcohol (Ethanol)			+	+	+	+	+	+	+	+	+	+	+	+	+
Ethyl Benzene			+	+	+	+	+	+	+	+	+	+	+	+	+
Ethyl Benzoate	213		+	+	+	+	+	+	+	+	+	+	+	+	+
Ethyl Bromide			+	+					+	+			+	+	+
Ethyl Butyrate	120		+	+	+	+	+	+	+	+	+	+	+	+	+
Ethyl Cellosolve			+	+					+	+			+	+	+
Ethyl Cellulose			+	+					+	+			+	+	+
Ethyl Chloride and Dichloride			+	+	?	?	?	?	+	+	?	?	?	+	+
Ethyl Chloroacetate			+	+					+	+			+	+	+
Ethyl Chlorocarbonate			+	+					+	+			+	+	+
Ethyl Chloroformate			+	+					+	+			+	+	+
Ethyl Chlorohydrin			+	+					+	+			+	+	+
Ethyl Formate	54		+	+	+	+	+	+	+	+	+	+	+	+	+
Ethyl Hexanol			+	+					+	+			+	+	+
Ethyl Mercaptan			+	+					+	+			+	+	+
Ethyl Phthalate	296		+	+	+	+	+	+	+	+	+	+	+	+	+
Ethyl Propionate	99		+	+	+	+	+	+	+	+	+	+	+	+	+
Ethyl Pyridine			+	+					+	+			+	+	+
Ethyl Sulfate			+	+					+	+			+	+	+
Ethylene Bromide			+	+					+	+			+	+	+
Ethylene Chloride			+	+					+	+			+	+	?
Ethylene Chlorohydrin			+	+					+	+			+	+	+
Ethylene Diamine			+	+					+	+			+	+	?
Ethylene Dichloride			+	+					+	+			+	+	?
Ethylene (Ethene)			+	+	+	+	+	+	+	+	+	+	+	+	+

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+ Compatible, no known interaction

0 Not Recommended

? Questionable, depends on conditions


Medium

	Temperature	Concentration	Carbon-Graphite					Graphite					Silicon Carbide		
			Base	Resin	Antimony	Babbitt	Copper	Base	Resin	Antimony	Babbitt	Copper	Reaction Bonded	Self Sintered	Siliconized Graphite
Ethylene, Gases			+	+	+	+	+	+	+	+	+	+	+	+	
Ethylene Glycol			+	+	+	+	+	+	+	+	+	+	+	+	
Ethylene Oxide			+	+	?	+	?	+	+	?	+	?	+	+	
Ethylene Oxide & Freon 12			+	+									+	+	
Ethylene, Solvents - Aliphatic			+	+	+	+	+	+	+	+	+	+	+	+	
Ethylene Trichloride								+				+	+	?	
Ethylethylene			+	+				+	+			+	+	+	
Fatty Acids			+	+	+	+	+	+	+	+	+	+	+	+	
Ferric Chloride, Acids - Inorganic Salts			+	+	0	0	0	+	+	0	0	0	?	+	0
Ferric Chloride, Melts - Acid Salts			?	0	0	0	?	+	0	0	0	?	0	+	0
Ferric Sulfate			+	+	0	0	0	+	+	0	0	0	+	+	+
Ferric Sulphate			+	+	0	0	0	+	+	0	0	0	+	+	+
Ferrous Chloride									+				+	+	?
Ferrous Sulfate										+			+	+	+
Ferrous Sulfate & Lime			+	+				+	+				+	+	+
Film Dope			+	+				+	+				+	+	+
Fish Oil			+	+	+	+	+	+	+	+	+	+	+	+	+
Fluorine	20	100	0	0	0	0	0	0	0	0	0	0	0	+	0
Fluorine Gas - Anhydrous			?	?	?	?	?	?	?	?	?	?	?	+	?
Fluorine Gas - Cryogenic (Liquified)			0	?	0	0	?	0	?	0	0	?	0	+	?
Fluorine Gas - Oxidizing			0	0	?	?	?	?	0	?	?	?	?	+	0
Fluorolube			+	+				+	+				+	+	+
Fluorosilicic Acid			+	+	0	0	0	+	+	0	0	0	0	+	+
Formaldehyde			+	+	+	+	+	+	+	+	+	+	+	+	+
Formalin	80		+	+	+	+	+	+	+	+	+	+	+	+	+
Formamide			+	+	?	?	?	+	+	?	?	?	?	+	+
Formic Acid			+	?	0	0	?	+	?	0	0	?	0	+	?
Freons			+	+	+	+	+	+	+	+	+	+	+	+	+
Freons & Refrigerator Oil			+	+	+	+	+	+	+	+	+	+	+	+	+
Fruit Juices			+	+	+	+	+	+	+	+	+	+	+	+	+
Fumaric Acid	290		+	+	0	0	0	+	+	0	0	0	0	+	+
Fuming Nitric Acid	100		0	0	0	0	0						0	+	+
Fuming Sulphuric Acid (Oleum)	330		0	0	0	0	0			0	0	0	0	+	+
Furfural			+	+	+	+	+	+	+	+	+	+	+	+	+
Furfuraldehyde	162		+	+	0	0	0	+	+	0	0	0	+	+	+
Furfuryl Alcohol			+	+				+	+				+	+	+
Gallium			+	?	0	0	?	+	?	0	0	?	0	+	?
Gas Oil			+	+	+	+	+	+	+	+	+	+	+	+	+
Gasoline			+	+	+	+	+	+	+	+	+	+	+	+	+

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0 Not Recommended

2 Questionable depends on conditions

Medium

Medium	Temperature	Concentration	Carbon-Graphite					Graphite					Silicon Carbide			
			Base	Resin	Antimony	Babbitt	Copper	Base	Resin	Antimony	Babbitt	Copper	Reaction Bonded	Self Sintered	Siliconized Graphite	
Gasoline, 100 Octane			+	+	+	+	+	+	+	+	+	+	+	+		
Gasoline, 130 Octane			+	+	+	+	+	+	+	+	+	+	+	+		
Gasoline, <20% Aromatics			+	+	+	+	+	+	+	+	+	+	+	+		
Gasoline >20% Aromatics			+	0	+	+	+	+	+	+	+	+	+	+		
Gasoline, Automotive			+	+	+	+	+	+	+	+	+	+	+	+		
Gasoline, Ethyl			+	+	+	+	+	+	+	+	+	+	+	+		
Gasoline, Hi-Test			+	+	+	+	+	+	+	+	+	+	+	+		
Gasoline & Hydrogen Sulfide			+	+							+	+	+	+		
Gasoline & Mercaptan			+	+							+	+	+	+		
Gelatin			+	+	0	0	0	+	+	0	0	0	+	+	+	+
Glacial Acetic Acid	118		+	+	0	0	0	+	+	0	0	0	?	+	+	+
Glass (Na ₂ SiO ₃)			+	?	?	?	?	+	?	?	?	?	?	+	?	?
Glaucobers Salt (Sodium Sulfate)			+	+				+	+				+	+	+	+
Glucose			+	+	0	0	0	+	+	0	0	0	+	+	+	+
Glue - Wall Paper			+	+				+	+				+	+	+	+
Glutamic Acid			+	+	+	+	+	+	+	+	+	+	+	+	+	+
Glutaric Acid	304		+	+	?	?	?	+	+	?	?	?	?	+	+	+
Glycerine			+	+	+	+	+	+	+	+	+	+	+	+	+	+
Glycerol			+	+				+	+				+	+	+	+
Glycols			+	+	+	+	+	+	+	+	+	+	+	+	+	+
Gold, Molten			+	?	0	0	?	+	?	0	0	?	0	+	?	?
Grape Juice			+	+				+	+				+	+	+	+
Grease			+	+	+	+	+	+	+	+	+	+	+	+	+	+
Green Sulfate Liquor			+	+	0	0	0	+	+	0	0	0	+	+	?	?
Helium, Anhydrous			?	?	?	?	?	?	?	?	?	?	+	+	?	?
Helium, Cryogenic			0	?	0	0	?	0	?	0	0	?	+	+	?	?
Helium, Inert			+	+	+	+	+	+	+	+	+	+	+	+	+	+
Heptane	98		+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hexachloroacetone			+	0	+	+	+	+	0	+	+	+	+	+	+	+
Hexane			+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hexene (Butylethelene)			+	+				+	+				+	+	+	+
Hexone (Iso-Butyl Methyl Ketone)	119		+	0	+	+	+	+	0	+	+	+	+	+	+	+
Hexyl Alcohol (Hexanol)			+	+				+	+				+	+	+	+
High Speed Copper Plating Solution									+				+	+	+	+
Hydroperoxides			+	+				+	+				+	+	+	+
Hydrazine			+	?	?	?	?	+	?	?	?	?	+	+	+	+
Hydrazine Hydrate			+	+				+	+				+	+	+	+
Hydrobromic Acid	100	100	+	+	0	0	0	+	+	+	0	0	+	+	+	+
Hydrocarbons, Light			+	+	+	+	+	+	+	+	+	+	+	+	+	+

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+ Compatible, no known interaction

0 Not Recommended

? Questionable, depends on conditions

Medium

	Temperature	Concentration	Carbon-Graphite					Graphite					Silicon Carbide		
			Base	Resin	Antimony	Babbitt	Copper	Base	Resin	Antimony	Babbitt	Copper	Reaction Bonded	Self Sintered	Siliconized Graphite
Hydrochloric Acid	100	36	+	+	0	0	0	+	+	+	0	0	+	+	+
Hydrocyanic (Prussic) Acid			+	+	0	0	0	+	+	0	0	0	0	+	+
Hydrofluoboric Acid	100	All	+	+	0	0	0	+	+	0	0	0	0	+	+
Hydrofluoric Acid	82	40	+	+	0	0	0	+	+	0	0	0	0	+	+
Hydrofluoric Acid	20	60	+	+	0	0	0	?	0	0	0	0	0	+	0
Hydrofluosilicic Acid			+	+	0	0	0	+	+	0	0	0	0	+	+
Hydrogen, Anhydrous			?	?	?	?	?	?	?	?	?	?	?	+	?
Hydrogen Bromide			+	+				+	+				+	+	+
Hydrogen Chloride	100	100	+	+	?	0	0	+	+	+	0	0	+	+	+
Hydrogen, Cryogenic			0	?	0	0	?	0	?	0	0	?	?	+	?
Hydrogen Cyanide			+	+				+	+				+	+	+
Hydrogen Fluoride	50	100	+	+	0	0	0	+	+	0	0	0	0	+	?
Hydrogen Fluoride Gas-	19		0	0	0	0	0	?	?	0	0	0	0	+	?
Hydrogen Peroxide	50	30	?	?	?	?	?	?	+	+	+	+	+	+	+
Hydrogen, Reducing			+	+	+	+	+	+	+	+	+	+	+	+	+
Hydrogen Sulphide	< 50	4 g/l	+	+	0	0	0	+	+	0	0	0	?	+	+
Hydrogen Sulphide	< 100	100	+	+	0	0	0	+	+	0	0	0	?	+	+
Hydrogenated Fats			+	+				+	+				+	+	+
Hydroquinone								+					+	+	+
Hydroxylamine			+	?	?	?	?	+	?	?	?	?	+	+	+
Hypochlorous Acid			0	?	0	0	?	?	?	0	0	?	?	+	?
Ice Cream			+	+	+	+	+	+	+	+	+	+	+	+	+
Ink			+	+				+	+				+	+	+
Insecticides (Aromatic)			+	+				+	+				+	+	+
Insecticides (Non-Aromatic)			+	+				+	+				+	+	+
Iodine									+				+	+	?
Iodoform			+	+	0	0	0	+	+	0	0	0	+	+	+
Iron Sulfate			+	+				+	+				+	+	+
Iso-Butane	-10		+	+	+	+	+	+	+	+	+	+	+	+	+
Iso-Butyl Acetate			+	+				+	+				+	+	+
Iso-Butyl Alcohol			+	+				+	+				+	+	+
Iso-Butyl Methyl Ketone			+	+				+	+				+	+	+
Iso-butylene	-6		+	+	+	+	+	+	+	+	+	+	+	+	+
Iso-Butylaldehyde			+	+				+	+				+	+	+
Iso-Octane			+	+	+	+	+	+	+	+	+	+	+	+	+
Iso-Pentane	28		+	+	+	+	+	+	+	+	+	+	+	+	+
Iso-Propanol			+	+	+	+	+	+	+	+	+	+	+	+	+
iso-Propyl Acetate	89		+	+	0	0	0	+	+	0	0	0	+	+	+
iso-Propyl Acetone			+	+				+	+				+	+	+

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+ Compatible, no known interaction 0 Not Recommended ? Questionable, depends on conditions

Medium	Temperature	Concentration	Carbon-Graphite					Graphite					Silicon Carbide		
			Base	Resin	Antimony	Babbitt	Copper	Base	Resin	Antimony	Babbitt	Copper	Reaction Bonded	Self Sintered	Siliconized Graphite
Iso-Propyl Alcohol	82		+	+	+	+	+	+	+	+	+	+	+	+	
Iso-Propyl Amine			+	+			+	+			+	+	+	+	
Iso-Propyl Chloride			+	+			+	+			+	+	+	+	
Iso-Propyl Ether			+	+			+	+			+	+	+	+	
Isobutyl/Isopropyl Alcohols			+	+	+	+	+	+	+	+	+	+	+	+	
Isododecane			+	+			+	+			+	+	+	+	
Isophthalic Acid			+	?	0	0	?	+	?	0	0	?	?	?	
Jelly			+	+	+	+	+	+	+	+	+	+	+	+	
Jet Fuel, JP-3			+	+	+	+	+	+	+	+	+	+	+	+	
Jet Fuel, JP-4			+	+	+	+	+	+	+	+	+	+	+	+	
Jet Fuel, JP-5			+	+	+	+	+	+	+	+	+	+	+	+	
Jet Fuel, JP-6			+	+	+	+	+	+	+	+	+	+	+	+	
Jet Fuel, JP-X			+	+	+	+	+	+	+	+	+	+	+	+	
Kanigen Solution	98		0	0	0	0	0					+	+	+	
Kaolin Slip Suspension in Water			+	+				+	+			+	+	+	
Kerosene (Parafin Hydrocarbon)	130		+	+	+	+	+	+	+	+	+	+	+	+	
Ketchup			+	+	+	+	+	+	+	+	+	+	+	+	
Ketones			+	+	+	+	+	+	+	+	+	+	+	+	
Krypton			+	+				+	+			+	+	+	
Lacquer			+	+	?	?	?	+	+	?	?	?	+	+	
Lacquer Solvents			+	+	+	?	+	+	+	+	?	+	+	+	
Lactic Acid			+	+	0	0	0	+	+	0	0	0	+	+	
Lactic/Lauric Acids			+	+	+	+	+	+	+	+	+	+	+	+	
Lard (Molten)			+	+	0	0	0	+	+	0	0	0	+	+	
Latex			+	+	+	+	+	+	+	+	+	+	+	+	
Lead Acetate			+	+				+	+			+	+	+	
Lead Carbonate			+	+				+	+			+	+	+	
Lead (Molten)			+	?	0	0	?	+	?	0	0	?	?	?	
Lead Nitrate			+	+				+	+			+	+	+	
Lead Sulfamate			+	+				+	+			+	+	+	
Light Petroleum Gas (LPG)			+	+	+	+	+	+	+	+	+	+	+	+	
Ligroin (Petroleum Ether)			+	+				+	+			+	+	+	
Lime Bleach									+			+	+	?	
Lime Slurry			+	+	0	0	0	+	+	0	0	0	+	+	
Lindol (Tricresyl Phosphate)	400		+	+	0	0	0	+	+	0	0	0	+	+	
Linseed Oil			+	+	+	+	+	+	+	+	+	+	+	+	
Liquid Oxygen			+	+				+	+			+	+	+	
Liquid Petroleum Gas			+	+	+	+	+	+	+	+	+	+	+	+	
Liquor, Black			+	+	0	0	0	+	+	0	0	0	+	?	

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Medium

	Temperature	Concentration	Carbon-Graphite					Graphite					Silicon Carbide		
			Base	Resin	Antimony	Babbitt	Copper	Base	Resin	Antimony	Babbitt	Copper	Reaction Bonded	Self Sintered	Siliconized Graphite
Liquor, Green			+	+	0	0	0	+	+	0	0	0	?	+	?
Liquor, Lime			+	+	0	0	0	+	+	0	0	0	?	+	?
Liquor, Pulpmill			+	+	0	0	0	+	+	0	0	0	?	+	+
Liquor, Steep			+	+	0	0	0	+	+	0	0	0	+	+	+
Liquor, Sulfate			+	+	0	0	0	+	+	0	0	0	?	+	+
Liquor, Sulfite			+	+	0	0	0	+	+	0	0	0	?	+	+
Liquor, White			+	+				+	+				+	+	+
Lissapol Paste			+	+				+	+				+	+	+
Lithium Bromide Brine			+	+	+	+	+	+	+	+	+	+	+	+	+
Lithium Carbonate			+	+				+	+				+	+	?
Lithium Carbonate, Alkaline Salts			?	0	0	0	?	?	0	0	0	?	0	+	0
Lithium Carbonate, Inorganic Salts			+	?	?	?	?	+	?	?	?	?	?	+	?
Lithium Chloride Brine			+	+	+	+	+	+	+	+	+	+	+	+	+
Lithium Hydroxide, Alkaline Salts			?	0	0	0	?	?	0	0	0	?	0	+	0
Lithium Hydroxide, Mineral			+	?	?	?	?	+	?	?	?	?	?	+	?
Lubricating Oil			+	+	+	+	+	+	+	+	+	+	+	+	+
Lye			+	?	?	?	?	+	?	?	?	?	?	+	?
Malic Hydrazide			+	+				+	+				+	+	+
Magnesium Acetate			+	+				+	+				+	+	+
Magnesium Bisulfate			+	+	0	0	0	+	+	0	0	0	0	+	+
Magnesium Chloride			+	+	0	0	0	+	+	0	0	0	+	+	+
Magnesium Hydroxide			+	+	0	0	0	+	+	0	0	0	+	+	+
Magnesium (Molten)			+	?	0	0	?	+	?	0	0	?	0	+	?
Magnesium Nitrate			+	+				+	+				+	+	+
Magnesium Oxide			+	+				+	+				+	+	+
Magnesium Sulfite			+	+				+	+				+	+	+
Magnesium Sulphate (Epson Salts)			+	+	0	0	0	+	+	0	0	0	+	+	+
Malamine Resins			+	+				+	+				+	+	+
Maleic Acid	135		+	?	0	0	?	+	?	0	0	?	0	+	?
Maleic Anhydride			+	?	0	0	?	+	?	0	0	?	0	+	?
Malic Acid	150		+	+	0	0	0	+	+	0	0	0	0	+	+
Malonic Acid			+	+	0	0	0	+	+	0	0	0	0	+	+
Malt			+	+	+	+	+	+	+	+	+	+	+	+	+
Manganese Chloride			+	+	0	0	0	+	+	0	0	0	+	+	+
Manganese Sulfate			+	+				+	+				+	+	+
Maple Syrup			+	+	+	+	+	+	+	+	+	+	+	+	+
Marsh Gas			+	+				+	+				+	+	+
Mayonnaise			+	+	?	?	?	+	+	?	?	?	+	+	+
MEA & Copper Sulfate								+					+	+	+

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Medium	Temperature	Concentration	Carbon-Graphite					Graphite					Silicon Carbide		
			Base	Resin	Antimony	Babbitt	Copper	Base	Resin	Antimony	Babbitt	Copper	Reaction Bonded	Self Sintered	Siliconized Graphite
MEA (Mono-Ethanol-Amine)								+					+	+	+
Mercaptan			+	+				+	+				+	+	+
Mercuric Chloride, Acid Salts			?	0	0	0	?	+	0	0	0	?	0	+	0
Mercuric Chloride, Inorganic Salts			+	+	0	0	0	+	+	0	0	0	0	+	+
Mercuric Nitrate			+	+	0	0	0	+	+	0	0	0	+	+	+
Mercurous Nitrate			+	+	0	0	0	+	+	0	0	0	+	+	+
Mercury	357		+	?	0	0	?	+	?	0	0	?	?	+	+
Mercury Salts			+	+				+	+				+	+	+
Mercury Vapors			+	+				+	+				?	+	+
Mesityl Oxide	129		+	+	0	0	0	+	+	0	0	0	+	+	+
Methane, Anhydrous			?	?	?	?	?	?	?	?	?	?	?	+	?
Methane, Cryogenic			0	?	0	0	?	0	?	0	0	?	0	+	?
Methane, Reducing			+	+	+	+	+	+	+	+	+	+	+	+	+
Methanol			+	+				+	+				+	+	+
Methyl Acetate	57		+	+	+	+	+	+	+	+	+	+	+	+	+
Methyl Acrylate			+	+				+	+				+	+	+
Methyl Alcohol (Methanol) (Carbinol)			+	+	+	+	+	+	+	+	+	+	+	+	+
Methyl Benzoate	200		+	+	+	0	+	+	+	+	0	+	+	+	+
Methyl Bromide	5		+	+	+	+	+	+	+	+	+	+	+	+	+
Methyl Butyl Ketone			+	+				+	+				+	+	+
Methyl Butyrate	102		+	+	+	+	+	+	+	+	+	+	+	+	+
Methyl Cellosolve	124		+	+	+	+	+	+	+	+	+	+	+	+	+
Methyl Chloride	-24		+	+	+	+	+	+	+	+	+	+	+	+	?
Methyl Chlorosilanes									+				+	+	+
Methyl Cyclopentane			+	+				+	+				+	+	+
Methyl Dichloride									+				+	+	?
Methyl Ether			+	+				+	+				+	+	+
Methyl Ethyl Ether			+	+	+	+	+	+	+	+	+	+	+	+	+
Methyl Ethyl Ketone			+	+	+	+	+	+	+	+	+	+	+	+	+
Methyl Formate	32		+	+	+	+	+	+	+	+	+	+	+	+	+
Methyl Isobutyl Ketone			+	+	+	+	+	+	+	+	+	+	+	+	+
Methyl Isophthalate			+	+				+	+				+	+	+
Methyl Isopropyl Ketone			+	+				+	+				+	+	+
Methyl Methacrylate	100		+	+	+	+	+	+	+	+	+	+	+	+	+
Methyl Phthalate	282		+	+	+	0	+	+	+	+	0	+	+	+	+
Methyl Propionate	79		+	+	+	+	+	+	+	+	+	+	+	+	+
Methyl Salicylate			+	+	+	+	+	+	+	+	+	+	+	+	+
Methylated Spirit (Commercial Grade)			+	+	+	+	+	+	+	+	+	+	+	+	+
Methylene Chloride	42		+	+	+	+	+	+	+	+	+	+	+	+	?

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? Questionable, depends on conditions

Medium

	Temperature	Concentration	Carbon-Graphite					Graphite					Silicon Carbide		
			Base	Resin	Antimony	Babbitt	Copper	Base	Resin	Antimony	Babbitt	Copper	Reaction Bonded	Self Sintered	Siliconized Graphite
Methylene Dichloride			+	+	+	+	+	+	+	+	+	+	+	+	?
MIL-0-8200 (HYDR)			+	+	+	+	+	+	+	+	+	+	+	+	+
MIL-0-8515			+	+									+	+	+
MIL-F-25558 (RJ-1)			+	+									+	+	+
MIL-H-5606 (HFA)			+	+									+	+	+
MIL-H-5606 (J43)			+	+									+	+	+
MIL-L-7808			+	+									+	+	+
Milk			+	+	+	+	+	+	+	+	+	+	+	+	+
Milk of Lime Slurry			+	+	?	?	?	+	+	?	?	?	+	+	+
Mineral Oil			+	+	+	+	+	+	+	+	+	+	+	+	+
Mineral Spirits			+	+	+	+	+	+	+	+	+	+	+	+	+
Miscella 20% Soya Oil			+	+									+	+	+
Mixed Acid, HNO3/H2SO4 = 2:3	20	100	0	0	0	0	0	0	0	0	0	0	+	+	0
Molasses			+	+	?	?	?	+	+	?	?	?	+	+	+
Monochlorobenzene	132		+	+	+	+	+	+	+	+	+	+	+	+	+
Monoethanol Amine			+	?	0	0	?	+	?	0	0	?	+	+	?
Monoethanolamine	172		+	+	+	0	+	+	+	+	0	+	+	+	?
Sodium Glutamate (MSG)			+	+									+	+	+
Morphine			+	+									+	+	+
Muriatic Acid			+	+	0	0	0	+	+	0	0	0	0	+	+
Mustard			+	+									+	+	+
Naphtha	140		+	+	+	+	+	+	+	+	+	+	+	+	+
Naphtha (Sour)			+	+									+	+	+
Naphthalene			+	+	+	+	+	+	+	+	+	+	+	+	+
Naphthalene (Molten)	218		+	+	+	0	+	+	+	+	0	+	+	+	+
Natural Gas			+	+	+	+	+	+	+	+	+	+	+	+	+
Neatsfoot Oil			+	+									+	+	+
Neon			+	+									+	+	+
Nickel Acetate			+	+									+	+	+
Nickel Chloride			+	+	0	0	0	+	+	0	0	0	+	+	+
Nickel Nitrate			+	+									+	+	+
Nickel Plating Solution			+	+									+	+	?
Nickel Salts			+	+									+	+	+
Nickel Sulfate			+	+	0	0	0	+	+	0	0	0	+	+	+
Nickel Sulphate			+	+	0	0	0	+	+	0	0	0	+	+	+
Nicotine Sulfate			+	+									+	+	+
Nitrating Acid		75%	0	?	0	0	?	?	?	0	0	?	?	+	?
Plating Acids	150		0	0	0	0	0						?	+	?
Nitric Acid		< 15%	+	+	0	0	0	+	+	0	0	0	0	+	+

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Medium	Temperature	Concentration	Carbon-Graphite					Graphite					Silicon Carbide		
			Base	Resin	Antimony	Babbitt	Copper	Base	Resin	Antimony	Babbitt	Copper	Reaction Bonded	Self Sintered	Siliconized Graphite
Nitric Acid	107	40	?	?	0	0	0	+	+	0	0	0	0	+	+
Nitric Acid	50	65	+	+	0	0	0	+	+	0	0	0	0	+	+
Nitric Acid	87	65	0	0	0	0	0	?	?	0	0	0	0	+	?
Nitric Acid	117	65	0	0	0	0	0	0	?	0	0	0	0	+	?
Nitric Acid	20	100	0	0	0	0	0	0	0	0	0	0	0	+	0
Nitric Oxide									+					+	?
Nitric Tetraoxide									+					?	+
Nitro Paraffins			+	+	+	+	+	+	+	+	+	+	+	+	+
Nitrobenzene			+	+	+	+	+	+	+	+	+	+	+	+	+
Nitrochloroform			+	+				+	+				+	+	+
Nitroethane			+	+				+	+				+	+	+
Nitrogen, Anhydrous			?	?	?	?	?	?	?	?	?	?	?	+	?
Nitrogen, Cryogenic			+	+	+	+	+	+	+	+	+	+	+	+	+
Nitrogen, Inert			+	+	+	+	+	+	+	+	+	+	+	+	+
Nitrogen Peroxide	20	100	0	0	0	0	0	0	0	0	0	0	0	+	0
Nitrogen Tetroxide			0	0	?	?	?	?	?	?	?	?	?	+	?
Nitromethane	101		+	+	+	+	+	+	+	+	+	+	+	+	+
Nitropropane			+	+	+	+	+	+	+	+	+	+	+	+	+
Nitrous Oxide			+	+	+	+	+	+	+	+	+	+	+	+	+
Nonyl Phenol			+	+	+	+	+	+	+	+	+	+	+	+	+
Nordhausen Acid (Oleum)	330		0	0	0	0	0	0	0	0	0	0	0	+	0
Nylon Salt			+	+				+	+				+	+	+
O S 45 Type IV									+				?	+	?
Oakite									+				+	+	+
Octyl Alcohol			+	+	+	+	+	+	+	+	+	+	+	+	+
Octyl Phenol			+	+	+	+	+	+	+	+	+	+	+	+	+
Oil & Ammonia									+				+	+	?
Oil, Animal, Bone			+	+				+	+				+	+	+
Oil, Animal, Cod			+	+				+	+				+	+	+
Oil, Animal, Lard			+	+	+	+	+	+	+	+	+	+	+	+	+
Oil, Animal, Menhadden			+	+				+	+				+	+	+
Oil, Animal, Neatsfoot			+	+				+	+				+	+	+
Oil, Animal, Sperm			+	+				+	+				+	+	+
Oil, Asphalt Base			+	+				+	+				+	+	+
Oil, Bunker C			+	+				+	+				+	+	+
Oil, Chinawood			+	+				+	+				+	+	+
Oil, Coal Tar			+	+				+	+				+	+	+
Oil, Coconut			+	+				+	+				+	+	+
Oil, Corn			+	+				+	+				+	+	+

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Medium

Temperature	Concentration	Carbon-Graphite					Graphite					Silicon Carbide		
		Base	Resin	Antimony	Babbitt	Copper	Base	Resin	Antimony	Babbitt	Copper	Reaction Bonded	Self Sintered	Siliconized Graphite
Oil, Creosote		+	+				+	+				+	+	+
Oil, Crude		+	+	?	?	?	+	+	?	?	?	+	+	+
Oil, Cutting		+	+	+	+	+	+	+	+	+	+	+	+	+
Oil, Diesel, #2D		+	+	+	+	+	+	+	+	+	+	+	+	+
Oil, Diesel, #3D		+	+	+	+	+	+	+	+	+	+	+	+	+
Oil, Diesel, #4D		+	+	+	+	+	+	+	+	+	+	+	+	+
Oil, Diesel, #5D		+	+	+	+	+	+	+	+	+	+	+	+	+
Oil, Edible		+	+	+	+	+	+	+	+	+	+	+	+	+
Oil, Essential		+	+	+	+	+	+	+	+	+	+	+	+	+
Oil & Freons		+	+	+	?	+	+	+	?	+	+	+	+	+
Oil, Fuel #1		+	+	+	+	+	+	+	+	+	+	+	+	+
Oil, Fuel #2		+	+	+	+	+	+	+	+	+	+	+	+	+
Oil, Fuel #3		+	+	+	+	+	+	+	+	+	+	+	+	+
Oil, Fuel #5A		+	+	+	+	+	+	+	+	+	+	+	+	+
Oil, Fuel #5B		+	+	+	+	+	+	+	+	+	+	+	+	+
Oil, Fuel #6		+	+	+	+	+	+	+	+	+	+	+	+	+
Oil, Fusal (Alcohol)		+	+	+	+	+	+	+	+	+	+	+	+	+
Hydraulic Oil, Insulating		+	+	+	+	?	+	+	+	+	?	+	+	+
Oil, Jet Fuel		+	+	+	+	+	+	+	+	+	+	+	+	+
Oil, Kerosene		+	+	+	+	+	+	+	+	+	+	+	+	+
Oil, Lean		+	+	+	+	+	+	+	+	+	+	+	+	+
Oil & Methylene Chloride		+	+				+	+				+	+	?
Oil, Navy II		+	+	+	+	+	+	+	+	+	+	+	+	+
Oil, Nut		+	+				+	+				+	+	+
Oil, Palm		+	+				+	+				+	+	+
Oil, Parafinn Base		+	+	+	+	+	+	+	+	+	+	+	+	+
Oil, Peanut		+	+				+	+				+	+	+
Oil, Pine		+	+				+	+				+	+	+
Oil, Quenching		+	+				+	+				+	+	+
Oil, Rapeseed		+	+				+	+				+	+	+
Oil, Rich		+	+	+	+	+	+	+	+	+	+	+	+	+
Oil, Silicone		+	+	+	+	+	+	+	+	+	+	+	+	+
Oil, Soya Bean		+	+				+	+				+	+	+
Oil & Sulfur Dioxide		+	+				+	+				+	+	+
Oil, Transformer		+	+	+	+	?	+	+	+	+	?	+	+	+
Oil, Turbine, Lube		+	+	+	+	+	+	+	+	+	+	+	+	+
Ucon		+	+				+	+				+	+	+
Oil, Whale		+	+	+	+	+	+	+	+	+	+	+	+	+

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Medium	Temperature	Concentration	Carbon-Graphite					Graphite					Silicon Carbide		
			Base	Resin	Antimony	Babbitt	Copper	Base	Resin	Antimony	Babbitt	Copper	Reaction Bonded	Self Sintered	Siliconized Graphite
Olefin, Crude			+	+				+	+				+	+	+
Oleic Acid	300		+	+	?	+	?	+	+	?	+	?	+	+	+
Oleomargarine			+	+				+	+				+	+	+
Oleum Acid	330		0	?	0	0	?	?	?	0	0	?	?	+	?
Oleyl Alcohol			+	+				+	+				+	+	+
Olive Oil			+	+	+	+	+	+	+	+	+	+	+	+	+
Ortho Phosphoric Acid			+	+	0	0	0	+	+	0	0	0	+	+	+
Ortho-Dichlorobenzene	180		+	+	+	0	+	+	+	+	0	+	+	+	+
Oxalic Acid			+	?	0	0	?	+	?	0	0	?	+	+	+
Oxygen, Anhydrous (no water)	< 150		?	?	?	?	?	?	?	?	?	?	+	+	?
Oxygen, Cryogenic			+	+	+	+	+	+	+	+	+	+	+	+	+
Oxygen, Inert	< 150		+	+	+	+	+	+	+	+	+	+	+	+	+
Oxygen, Oxidizing	>150		?	?	?	?	?	?	?	?	?	?	+	+	?
Paint			+	+	+	+	+	+	+	+	+	+	+	+	+
Palmitic Acid	340		+	+	+	+	+	+	+	+	+	+	+	+	+
Paper Stock <1% Alkaline			+	+	+	+	+	+	+	+	+	+	+	+	+
Paper Stock < 1.5% Acidic			+	+	?	?	?	+	+	?	?	?	+	+	+
Paper Stock <3% Acidic			+	+	?	?	?	+	+	?	?	?	+	+	+
Paper Stock > 3% Acidic			+	+	0	0	0	+	+	0	0	0	+	+	+
Paper Stock < 3% Alkaline			+	+	?	?	?	+	+	?	?	?	+	+	+
Paper Stock >3% Alkaline			+	+	0	0	0	+	+	0	0	0	+	+	+
Para-Cymene			+	+				+	+				+	+	+
Paradichlorobenzene			+	+				+	+				+	+	+
Paraffin			+	+	+	+	+	+	+	+	+	+	+	+	+
Paraformaldehyde			+	+				+	+				+	+	+
Paraldehyde			+	+				+	+				+	+	+
Pectin Liquor			+	+				+	+				+	+	+
Penicillin (Liquid)			+	+				+	+				+	+	+
Pentachlorophenol	310		+	+	+	0	+	+	+	+	0	+	+	+	+
Pentaerythritol			+	+	+	+	+	+	+	+	+	+	+	+	+
Pentane	37		+	+	+	+	+	+	+	+	+	+	+	+	+
Pentane Liquid			+	+				+	+				+	+	+
Pentasol			+	+				+	+				+	+	+
Perchloroethylene	121		+	+	+	+	+	+	+	+	+	+	+	+	+
Perchloric Acid - DO NOT BRING IN CONTACT WITH CARBON -- RISK	< 93	< 72%	0	?	0	0	?	?					?	+	?
Perchloroethylene			+	+	+	+	+	+	+	+	+	+	+	+	+
Perhydrol -- See Hydrogen Peroxide													+	+	+
Petrolatum			+	+				+	+				+	+	+
Petroleum			+	+	+	+	+	+	+	+	+	+	+	+	+

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Medium	Temperature	Concentration	Carbon-Graphite					Graphite					Silicon Carbide		
			Base	Resin	Antimony	Babbitt	Copper	Base	Resin	Antimony	Babbitt	Copper	Reaction Bonded	Self Sintered	Siliconized Graphite
Phenol 10% and Water	105		+	+	+	+	+	+	+	+	+	+	+	+	+
Phenol (Carbolic Acid)			+	?	0	0	?	+	?	0	0	+	?	+	?
Phenol (Carbolic Acid)	182		+	?	0	0	?	+	?	?	0	?	?	+	?
Phenol-Formaldehyde Mixture			+	+	+	+	+	+	+	+	+	+	+	+	+
Phenylacetic Acid	265		+	+	0	0	0	+	+	0	0	0	0	+	+
Phlorol									+				?	+	+
Phosgene	20		+	+	+	0	0	+	+	+	0	0	+	+	+
Phosphoric Acid	50	89	+	+	+	0	0	+	+	+	0	0	+	+	+
Phosphoric Acid	137	89	+	+	0	0	0	+	+	0	0	0	+	+	+
Phosphorus Oxychloride, Acids			+	+	0	0	0	+	+	0	0	0	0	+	+
Phosphorus Oxychloride, Melts			0	0	?	?	?	?	?	?	?	?	?	+	?
Phosphorus Trichloride, Acids			+	+	0	0	0	+	+	0	0	0	0	+	+
Phosphorus Trichloride, Melts			?	0	0	0	?	+	0	0	0	?	0	+	0
Phosphorus-P			?	0	0	0	?	+	0	0	0	?	0	+	0
Phosphoryl Chloride	20	100	+	+	0	0	0	+	+	0	0	0	0	+	+
Photographic Developers			+	+				+	+				+	+	+
Phthalate Esters			+	+				+	+				+	+	+
Phthalic Acid/Anhydride	191		+	?	0	0	?	+	?	0	0	?	+	+	+
Pickle Solutions			+	+	?	?	?	+	+	?	?	?	+	+	+
Picric Acid			+	?	0	0	?	+	?	0	0	?	0	+	?
Pine Oil			+	+				+	+				+	+	+
Plasticizers, Ester Type			+	+				+	+				+	+	+
Plasticizers (Lig. Dibutyl Cellusolve Adipate)			+	+				+	+				+	+	+
Plating Solution, Chrome									+				+	+	+
Plating Solution, Copper, Acid			+	+				+	+				+	+	+
Plating Solution, Copper Cyanide			+	+				+	+				+	+	+
Plating Solution, Cyanide			+	+				+	+				+	+	+
Plating Solution, Nickel Cyanide			+	+				+	+				+	+	+
Polyethylene			+	+	+	+	+	+	+	+	+	+	+	+	+
Polyglycols			+	+				+	+				+	+	+
Polyphenyl Ether			+	+				+	+				+	+	+
Polystyrene			+	+	+	+	+	+	+	+	+	+	+	+	+
Polyurethane			+	+	+	+	+	+	+	+	+	+	+	+	+
Polyvinyl Acetate			+	+				+	+				+	+	+
Potash Sulfide									+				+	+	?
Potassium Alum			+	+	?	?	?	+	+	?	?	?	+	+	+
Potassium Bicarbonate			+	+	+	+	+	+	+	+	+	+	+	+	+
Potassium Bichromate (Aqueous)			?	?				?	?				?	+	+
Potassium Bisulfide									+				+	+	+

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			Base	Resin	Antimony	Babbitt	Copper	Base	Resin	Antimony	Babbitt	Copper	Reaction Bonded	Self Sintered	Siliconized Graphite
Potassium Bromide			+	+	0	0	0	+	+	0	0	0	+	+	+
Potassium Carbonate			+	?	?	?	?	+	?	?	?	?	+	+	?
Potassium Chlorate			?	?	?	?	?	?	?	?	?	?	+	+	+
Potassium Chloride, Neutral Salts			+	?	?	?	?	+	?	?	?	?	?	+	?
Potassium Chloride, Salt Solutions			+	+	+	+	+	+	+	+	+	+	+	+	+
Potassium Cyanide, Alkaline Salts			?	0	0	0	?	?	0	0	0	?	0	+	0
Potassium Cyanide, Inorganic Salts			+	?	?	?	?	+	?	?	?	?	?	+	?
Potassium Dichromate			+	+	0	0	0	+	+	0	0	0	+	+	?
Potassium Hydroxide	20	60	+	+	+	+	+	+	+	+	+	+	?	+	?
Potassium Hydroxide	100	60	+	0	0	0	0	+	0	0	0	0	0	+	?
Potassium Nitrate	< 150		+	+	?	?	?	+	+	?	?	?	+	+	+
Potassium Iodide									+				+	+	+
Potassium Perfluoro Acetate			+	+				+	+				+	+	+
Potassium Permanganate	20	50	+	+	+	+	+	+	+	+	+	+	+	+	+
Potassium Permanganate	100	50	?	?	?	0	0	0	0	+	0	0	+	+	0
Potassium Phosphate			+	?	?	?	?	+	?	?	?	?	?	+	?
Potassium Silicate									+				+	+	+
Potassium Sulfide			+	+				+	+				+	+	?
Potassium Sulphate			+	+	0	0	0	+	+	0	0	0	+	+	+
Prestone			+	+	+	+	+	+	+	+	+	+	+	+	+
Primary Flash Distillate (PFD)			+	+				+	+				+	+	+
Producer Gas			+	+				+	+				+	+	+
Propane, Aliphatic			+	+	+	+	+	+	+	+	+	+	+	+	+
Propane, Anhydrous			?	?	?	?	?	?	?	?	?	?	?	+	?
Propanol			+	+	+	+	+	+	+	+	+	+	+	+	+
Propionaldehyde	49		+	+	+	+	+	+	+	+	+	+	+	+	+
Propionic Acid	141		+	?	0	0	?	+	?	0	0	?	+	+	+
Propyl Acetate			+	+				+	+				+	+	+
Propyl Alcohol	100		+	+	+	+	+	+	+	+	+	+	+	+	+
Propyl Benzoate	231		+	+	+	0	+	+	+	+	0	+	+	+	+
Propyl Butyrate	143		+	+	+	+	+	+	+	+	+	+	+	+	+
Propyl Formate			+	+				+	+				+	+	+
Propyl Phthalate			+	+	+	+	+	+	+	+	+	+	+	+	+
Propyl Propionate	123		+	+	+	+	+	+	+	+	+	+	+	+	+
Propylene			+	+	+	+	+	+	+	+	+	+	+	+	+
Propylene Carbonate			+	+				+	+				+	+	+
Propylene Dichloride			+	+				+	+				+	+	+
Propylene Glycol			+	+	+	+	+	+	+	+	+	+	+	+	+
Propylene Oxide			+	+				+	+				+	+	+

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+ Compatible, no known interaction

0 Not Recommended

? Questionable, depends on conditions

Medium

	Temperature	Concentration	Carbon-Graphite					Graphite					Silicon Carbide		
			Base	Resin	Antimony	Babbitt	Copper	Base	Resin	Antimony	Babbitt	Copper	Reaction Bonded	Self Sintered	Siliconized Graphite
Protein Slurry			+	+								+	+	+	
Pulp Stock			+	+								+	+	+	
PVA Emulsions			+	+								+	+	+	
PVC Slurry			+	+								+	+	+	
Pyridine			+	?	?	0	?	+	?	?	0	?	+	+	+
Pyrogalllic Acid	300		+	+	0	0	0	+	+	0	0	0	+	+	+
Pyroligneous Liquor			+	?	0	0	?	+	?	0	0	?		+	?
Raffinate			+	+				+	+				+	+	+
Resorcinol			+	+				+	+				+	+	+
Rosin			+	+				+	+				+	+	+
Saccharine			+	+				+	+				+	+	+
Sal Ammonia			+	+	0	0	0	+	+	0	0	0	+	+	+
Sal Soda			+	?	?	?	?	+	?	?	?	?	?	+	?
Salad Oil			+	+	+	+	+	+	+	+	+	+	+	+	+
Salicylic Acid			+	?	0	0	?	+	?	0	0	?	+	+	+
Salt Cake, Aqueous			+	+				+	+				+	+	+
Salt Cake (Sodium Sulfate)			+	+				+	+				+	+	+
Peter									+				+	+	+
Sewage			+	+	+	+	+	+	+	+	+	+	+	+	+
Shellac			+	+				+	+				+	+	+
Silicon Tetrachloride			+	+				+	+				+	+	+
Silicone Fluids			+	+	+	+	+	+	+	+	+	+	+	+	+
Silicone Oils			+	+	+	+	+	+	+	+	+	+	+	+	+
Silver			+	?	0	0	?	+	?	0	0	?	0	+	?
Silver Nitrate			+	+	0	0	0	+	+	0	0	0	+	+	+
Skydrol 500			+	+				+	+				+	+	+
Skydrol 7000			+	+				+	+				+	+	+
Slop, Brewery			+	+				+	+				+	+	+
Slop, Distillers			+	+				+	+				+	+	+
Soap and Soap Liquors			+	+	?	?	?	+	+	?	?	?	+	+	+
Soda			+	+	?	?	?	+	+	?	?	?	?	+	+
Soda Ash, Alkaline Salts			?	0	0	0	?	?	0	0	0	?	0	+	0
Soda Ash, Inorganic Salts			+	?	?	?	?	+	?	?	?	?	?	+	?
Soda, Caustic (Sodium Hydroxide)									+				?	+	?
Sodium	100	100	0	0	0	0	0	0	0	0	0	0	0	+	0
Sodium Acetate			+	+	?	?	?	+	+	?	?	?	?	+	?
Sodium Acid Sulfate			+	+				+	+				+	+	+
um Aluminate			+	+	?	?	?	+	+	?	?	?	+	+	?
Sodium Aluminate Lime									+				+	+	?

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CHIEF

Medium	Temperature	Concentration	Carbon-Graphite					Graphite					Silicon Carbide		
			Base	Resin	Antimony	Babbitt	Copper	Base	Resin	Antimony	Babbitt	Copper	Reaction Bonded	Self Sintered	Siliconized Graphite
Sodium Bicarbonate			+	+	?	?	?	+	+	?	?	?	+	+	+
Sodium Bichromate			0	0	0	0	0	0	0	0	0	0	+	+	?
Sodium Bisulfite			+	?	?	?	?	+	?	?	?	?	+	+	+
Sodium Bisulphate			+	+	?	?	?	+	+	?	?	?	?	+	+
Sodium Bisulphite			+	+	?	?	?	+	+	?	?	?	+	+	+
Sodium Borate (Borax)			+	+	?	?	?	+	+	?	?	?	+	+	+
Sodium Bromide			+	+				+	+				+	+	+
Sodium Carbonate			+	+	?	?	?	+	+	?	?	?	+	+	?
Sodium Chlorate									+				+	+	+
Sodium Chloride			+	+				+	+				+	+	+
Sodium Chlorite	80	20	0	0	0	0	0	0	0	0	0	0	0	+	0
Sodium Chromate										+			+	+	?
Sodium Cyanamide										+			+	+	+
Sodium Cyanide			+	+	?	?	?	+	+	?	?	?	+	+	+
Sodium Dichromate			+	?	?	?	?	+	?	?	?	?	+	+	?
Sodium Dithionate			+	+	?	?	?	+	+	?	?	?	+	+	+
Sodium Fluoride										+			+	+	+
Sodium Hexametaphosphate			+	+				+	+				+	+	+
Sodium Hydrosulphite			0	0	0	0	0	0	0	0	0	0	+	+	+
Sodium Hydroxide	82	< 20%	+	+	0	0	0	+	+	0	0	0	0	+	0
Sodium Hydroxide	82-177	> 30%	+	0	0	0	0	+	0	0	0	0	0	+	0
Sodium Hydroxide	20	60	+	+	+	+	+	+	+	+	+	+	?	+	?
Sodium Hydroxide	100	60	+	0	0	0	0	+	0	0	0	0	0	+	0
Sodium Hypochlorite			+	+	0	0	0	+	+	0	0	0	+	+	+
Sodium Hypochlorite (see bleach)		Liquor											+	+	?
Sodium Metaphosphate			+	?	?	?	?	+	?	?	?	?	?	+	+
Sodium Metasilicate										+			+	+	+
Sodium Nitrate, Nitrate Melt			?	?	?	?	?	?	?	?	?	?	+	+	+
Sodium Nitrite			+	+	0	0	0	+	+	0	0	0	+	+	+
Sodium Perborate			?	?	?	?	?	?	?	?	?	?	+	+	?
Sodium Perchlorate			?	?	?	?	?	?	?	?	?	?	?	+	?
Sodium Peroxide Solution			+	+	0	0	0	+	+	0	0	0	+	+	+
Sodium Phosphate, Di			+	+	0	0	0	+	+	0	0	0	+	+	+
Sodium Phosphate, Meta-										+			+	+	+
Sodium Phosphate, Mono			+	+	0	0	0	+	+	0	0	0	+	+	+
Sodium Phosphate, Tri			+	+	0	0	0	+	+	0	0	0	+	+	+
Sodium Plumbite										+			+	+	+
Sodium Silicate			+	+	0	0	0	+	+	0	0	0	+	+	+
Sodium Sulfate, Neutral Salts			+	?	?	?	?	+	?	?	?	?	?	+	?

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+ Compatible, no known interaction 0 Not Recommended ? Questionable, depends on conditions

Medium

	Temperature	Concentration	Carbon-Graphite					Graphite					Silicon Carbide			
			Base	Resin	Antimony	Babbitt	Copper	Base	Resin	Antimony	Babbitt	Copper	Reaction Bonded	Self Sintered	Siliconized Graphite	
Sodium Sulfate, Salt Solutions, Neutral			+	+	+	+	+	+	+	+	+	+	+	+	+	+
Sodium Sulfide			+	?	?	?	?	+	?	?	?	?	+	+	+	+
Sodium Sulfite								+				+	+	+	+	+
Sodium Sulphate (Glauber's Salt)			+	+	0	0	0	+	+	0	0	0	0	+	+	+
Sodium Sulphide			+	+	0	0	0	+	+	0	0	0				
Sodium Sulphite			+	+	0	0	0	+	+	0	0	0				
Sodium Tetraborate (See Borax)																
Sodium Thiocyanate			+	+	0	0	0	+	+	0	0	0				
Sodium Thiosulfate			+	?	?	?	?	+	?	?	?	?				
Sodium Thiosulphate (Hypo)			+	+	0	0	0	+	+	0	0	0				
Soft Drinks																
Solvasol 1			+	+				+	+							
Solvasol 2			+	+				+	+							
Solvasol 3			+	+				+	+							
Solvasol 73									+							
Solvasol 74									+							
Sorbitol			+	+	+	+	+	+	+	+	+	+				
Soybean Oil			+	+	+	+	+	+	+	+	+	+				
Stannic Chloride			+	+	0	0	0	+	+	0	0	0	+	+	+	+
Stannous Fluoride									+				+	+	+	+
Starch Slurry			+	+				+	+				+	+	+	+
Steam	< 260		+	?	0	0	?	+	?	0	0	?	+	+	+	+
Steam	< 815		0	0	?	?	?	?	0	?	?	?	+	+	+	+
Stearic Acid	383		+	+	?	0	?	+	+	?	0	?	?	+	+	+
Steep Liquors									+				+	+	+	+
Stoddard Solvent			+	+				+	+				+	+	+	+
Strontium Nitrate			+	+	0	0	0	+	+	0	0	0	+	+	+	+
Styrene			+	+	+	+	+	+	+	+	+	+	+	+	+	+
Styrene & Di-Nitrochlorobenzene									+				+	+	+	+
Succinic Acid	235		+	+	0	0	0	+	+	0	0	0	+	+	+	+
Sugar			+	+	+	+	+	+	+	+	+	+	+	+	+	+
Sugar Solutions			+	+	+	+	+	+	+	+	+	+	+	+	+	+
Sulfahydrate			+	+				+	+				+	+	+	+
Sulfate Liquors			+	?	?	?	?	+	?	?	?	?	?	+	?	?
Sulfate of Lime			+	+	?	?	?	+	+	?	?	?	+	+	+	+
Sulfide of Hydrogen			+	+				+	+				+	+	+	+
Sulfide of Sodium									+				+	+	?	?
Sulfolin			+	+				+	+				?	+	+	+
Sulfite Liquors			+	+	0	0	0	+	+	0	0	0	0	+	+	+

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Medium	Temperature	Concentration	Carbon-Graphite					Graphite					Silicon Carbide		
			Base	Resin	Antimony	Babbitt	Copper	Base	Resin	Antimony	Babbitt	Copper	Reaction Bonded	Self Sintered	Siliconized Graphite
Sulfite Pulp			+	+				+	+				+	+	+
Sulfolignin Salts			+	+				+	+				+	+	+
Sulfonated Fatty Alcohol			+	+				+	+				+	+	+
Sulfur			?	0	0	0	?	+	0	0	0	?	+	+	+
Sulfur Trioxide (Wet)									+				?	+	?
Sulfurdioxide, Acid	< 250		+	+	0	0	?	+	+	0	0	?	0	+	+
Sulfurdioxide, Anhydrous	< 250		?	?	?	?	?	?	?	?	?	?	?	+	?
Sulfuric Acid	150	77%	+	+	0	0	0	+	+	0	0	0	+	+	+
Sulfuric Acid	93	77-98%	0	?	0	0	?	?	?	0	0	?	?	+	?
Sulfuryl Chloride	67	100	+	+	+	0	0	+	+	+	0	0	+	+	+
Sulphonated Fatty Acids			+	+	+	+	+	+	+	+	+	+	+	+	+
Sulphorated Vegetable Oils			+	+	+	+	+	+	+	+	+	+	+	+	+
Sulphur Chloride	136		+	+	0	0	0	+	+	0	0	0	+	+	+
Sulphur Chlorohydrin									+				+	+	+
Sulphur Dioxide	100	100	+	+	+	0	0	+	+	+	0	0	+	+	+
Sulphur Dioxide, Liquid	-10		+	+	+	+	+	+	+	+	+	+	+	+	+
Sulphur Dioxide, Wet	-10		+	+	0	0	0	+	+	0	0	0	?	+	+
Sulphur in Water			+	+				+	+				+	+	+
Sulphur Molten	444		+	0	0	0	0	+	0	0	0	0	+	+	+
Sulphur Monochloride	20	100	0	0	0	0	0	0	0	0	0	0	0	+	0
Sulphur Trioxide	100	>50	0	0	0	0	0	0	0	0	0	0	0	+	0
Sulphuric Acid	105	<2%	+	+	0	0	0	+	+	0	0	0	+	+	+
Sulphuric Acid	215	48	+	+	?	0	0	+	+	+	0	0	+	+	+
Sulphuric Acid	20	98	0	0	0	0	0	0	0	0	0	0	0	+	0
Sulphuric Acid	100	98	+	+	0	0	0	+	+	0	0	0	0	+	+
Sulphuric Acid	147	98	+	+	0	0	0	+	+	0	0	0	0	+	+
Sulphurous Acid	100		+	+	?	+	?	+	+	+	+	+	+	+	+
Sylvite			+	+				+	+				+	+	+
Syrup			+	+	+	+	+	+	+	+	+	+	+	+	+
Tall Oil			+	+				+	+				+	+	+
Tallow			+	+				+	+				+	+	+
Tannic Acid			+	+	0	0	0	+	+	0	0	0	+	+	+
Tanning Liquors			+	+	0	0	0	+	+	0	0	0	+	+	+
Tar			+	+	+	+	+	+	+	+	+	+	+	+	+
Tar & Ammonia in Water			+	+				+	+				+	+	+
Tar, Bituminous			+	+				+	+				+	+	+
Tar, Hot			+	+				+	+				+	+	+
Tar, Pine			+	+				+	+				+	+	+
Tartaric Acid			+	+	0	0	0	+	+	0	0	0	+	+	+

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Medium

	Temperature	Concentration	Carbon-Graphite					Graphite					Silicon Carbide				
			Base	Resin	Antimony	Babbitt	Copper	Base	Resin	Antimony	Babbitt	Copper	Reaction Bonded	Self Sintered	Siliconized Graphite		
Teepol																	
Terephthalic Acid			+	?	0	0	?	+	?	0	0	?	+	+	+	+	+
Tetra Ethyl Lead			+	+				+	+				+	+	+	+	+
Tetrabromoethane (Pure)			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Tetrachloroethane (Pure)			+	+	+	+	+	+	+	+	+	+	+	+	+	+	?
Tetrachloroethylene			+	+	+	+	+	+	+	+	+	+	+	+	+	+	?
Tetracloroethylene	121		+	+	+	+	+	+	+	+	+	+	+	+	+	+	?
Tetrahydrofuran			+	+				+	+				+	+	+	+	?
Tetramine C			+	+				+	+				+	+	+	+	+
Tetraphenyl			+	+				+	+				+	+	+	+	+
Therminol #1									+				+	+	+	+	+
Therminol #2									+				+	+	+	+	+
Therminol #3									+				+	+	+	+	+
Thinner for Cellulose Lacquer			+	+				+	+				+	+	+	+	+
Thinner for Oil Paint			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Thionyl Chloride	75	100	+	+	+	0	0	+	+	+	0	0	+	+	+	+	+
Tin			+	?	0	0	?	+	?	0	0	?	0	+	+	?	?
ium Tetrachloride	136		+	+	0	0	0	+	+	0	0	0	+	+	+	+	+
Toluene			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Toluene Sulfonic Acid			+	?	0	0	?	+	?	0	0	?	+	+	+	+	+
Tomato Pulp			+	+				+	+				+	+	+	+	+
Tooth Paste			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Toulic Acid			+	?	0	0	?	+	?	0	0	?	+	+	+	+	+
Toxaphene			+	+				+	+				+	+	+	+	+
Tri-Fluoro-Vinyl Chloride									+				+	+	+	+	+
Trichlorhydrin									+				+	+	+	+	+
Trichlorobenzene									+				+	+	+	+	+
Trichloroethylene			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Trichloroethylene, Dry	87		+	+	+	+	+	+	+	+	+	+	+	+	+	+	?
Trichloroethylene, Wet	87		+	+	0	0	0	+	+	0	0	0	+	+	+	+	+
Trichloronitromethane									+				+	+	+	+	+
Tricresyl Phosphate			+	+				+	+				+	+	+	+	+
Triethanol amine			+	?	0	0	?	+	?	0	0	?	+	+	+	?	?
Triethanolamine			+	+	0	0	0	+	+	0	0	0	+	+	+	?	?
Triethylamine	90		+	+	0	0	0	+	+	0	0	0	+	+	+	+	+
Trisodium phosphate			+	?	?	?	?	+	?	?	?	?	+	+	+	+	+
Turpentine			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Urea & Phenolic Resins			+	+	?	?	?	+	+	?	?	?	?	+	+	+	+

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Medium

Medium	Temperature	Concentration	Carbon-Graphite					Graphite					Silicon Carbide		
			Base	Resin	Antimony	Babbitt	Copper	Base	Resin	Antimony	Babbitt	Copper	Reaction Bonded	Self Sintered	Siliconized Graphite
Urine			+	+				+	+				+	+	+
Varnish, Aromatic			+	+				+	+				+	+	+
Varnish, Non-Aromatic			+	+				+	+				+	+	+
Vegetable Juices			+	+	+	+	+	+	+	+	+	+	+	+	+
Vegetable Oil			+	+	+	+	+	+	+	+	+	+	+	+	+
Vetrocoke Solution (Wet)			+	+				+	+				+	+	+
Vinegar			+	?	0	0	?	+	?	0	0	?	+	+	+
Vinyl Acetate			+	+	+	+	+	+	+	+	+	+	+	+	+
Vinyl Chloride			+	+	+	+	+	+	+	+	+	+	+	+	+
Vinyl Chloride Gas (Pure)	-14		+	+	+	+	+	+	+	+	+	+	+	+	+
Vinyl Pyridine			+	+				+	+				+	+	+
Viscose			+	?	0	0	?	+	?	0	0	?	?	+	?
Vitriol, Oil of	330		0	0	0	0	0	0	0	0	0	0	?	+	0
Vitriol, White									+				0	+	0
Wall Paper Glue Sizing			+	+				+	+				?	+	+
Water	< 150		+	+	+	+	+	+	+	+	+	+	+	+	+
Water, Acid, Mine			+	+				+	+				+	+	+
Water, Boiler Feed			+	+	+	?	?	+	+	+	?	?	+	+	+
Water, Brackish			+	+	+	+	+	+	+	+	+	+	+	+	+
Water, Chilled Air Washing			+	+	+	+	+	+	+	+	+	+	+	+	+
Water, Condensate			+	+	+	+	+	+	+	+	+	+	+	+	+
Water, Condenser Service			+	+	+	+	+	+	+	+	+	+	+	+	+
Water, Cooling Tower			+	+	+	+	+	+	+	+	+	+	+	+	+
Water, Deionized			?	?	?	?	?	+	+	?	?	?	+	+	+
Water, Demineralized			?	?	?	?	?	+	+	?	?	?	+	+	+
Water, Detergent			+	+				+	+				+	+	+
Water, Dish			+	+	?	?	?	+	+	?	?	?	+	+	+
Water, Distilled			+	+	+	+	+	+	+	+	+	+	+	+	+
Water, Drinking			+	+	+	+	+	+	+	+	+	+	+	+	+
Water, Glass									+				+	+	+
Water, Grit Carrying			+	+	+	+	+	+	+	+	+	+	+	+	+
Water, Heavy			+	+	+	+	+	+	+	+	+	+	+	+	+
Water, Hot			+	+	+	+	+	+	+	+	+	+	+	+	+
Water, Lime			+	+				+	+				?	+	+
Water, Mine			+	+	+	+	+	+	+	+	+	+	+	+	+
Water, Sandy			+	+	+	+	+	+	+	+	+	+	+	+	+
Water, Sea			+	+	+	+	+	+	+	+	+	+	+	+	+
Water, Soapy			+	+	?	?	?	+	+	?	?	?	+	+	+
Water & Soluble Oil			+	+	+	+	+	+	+	+	+	+	+	+	+

NOTE: Variables such as temperatures, concentrations, and exposure times prohibit flat approval of some chemicals for use with all or certain grades. Consult our Application Engineering group for guidance on questionable applications.

+ Compatible, no known interaction

0 Not Recommended

? Questionable, depends on conditions

Medium

	Temperature	Concentration	Carbon-Graphite					Graphite					Silicon Carbide		
			Base	Resin	Antimony	Babbitt	Copper	Base	Resin	Antimony	Babbitt	Copper	Reaction Bonded	Self Sintered	Siliconized Graphite
Water, White, Paper Mill			+	+	0	0	0	+	+	0	0	0	?	+	+
Water, Zeolite Treated			+	+				+	+				?	+	+
Waxes			+	+	+	+	+	+	+	+	+	+	+	+	+
Whey			+	+				+	+				+	+	+
Whiskey	80		+	+	?	?	?	+	+	?	?	?	+	+	+
White Liquor			+	+				+	+				+	+	+
White Spirit	140		+	+	+	0	+	+	+	+	0	+	+	+	+
Wine			+	+				+	+				+	+	+
Wood Pulp			?	?	?	?	?	?	?	?	?	?	+	+	+
Wood Vinegar			+	+				+	+				+	+	+
Xenon			+	+				+	+				+	+	+
Xylene			+	+	+	+	+	+	+	+	+	+	+	+	+
Xylene (Dimethylbenzene)			+	+				+	+				+	+	+
Xylene, Meta	139		+	+	+	+	+	+	+	+	+	+	+	+	+
Xylene, Ortho	144		+	+	+	0	+	+	+	+	0	+	+	+	+
Xylene, Para	138		+	+	+	+	+	+	+	+	+	+	+	+	+
Yeast			+	+				+	+				+	+	+
Yeast			+	+	+	+	+	+	+	+	+	+	+	+	+
Zinc			+	?	0	0	?	+	?	0	0	?	0	+	?
Zinc Acetate			+	+				+	+				+	+	+
Zinc Ammonium Chloride			+	+				+	+				+	+	+
Zinc Chloride, Acid Salts			?	0	0	0	?	+	0	0	0	?	?	+	0
Zinc Chloride, Inorganic Salts			+	+	0	0	0	+	+	0	0	0	?	+	+
Zinc Cyanide			+	+	0	0	0	+	+	0	0	0	+	+	+
Zinc Hydrosulfite			+	+				+	+				+	+	+
Zinc Nitrate			+	+	0	0	0	+	+	0	0	0	+	+	+
Zinc Oxide			+	+				+	+				+	+	+
Zinc Phosphate			+	+				+	+				+	+	+
Zinc Sulfate			+	+	0	0	0	+	+	0	0	0	+	+	+

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0 Not Recommended

? Questionable, depends on condition