

Pumped medium		GG-25	GGG-40;GGG-40.3	GS-C 25	ERN	Ni-Resist D2	NORHARD® NH 15 3	NORLOY® NL 25 2	1.4008	1.4308	1.4408	1.4500	NORICID® 9.4306	NORIDUR® 9.4460	NORICLOR® NC 24 6	G-CuAl 10 Ni	Special materials / remark	
Acetic acid Concentration	CH ₃ COOH	10% ,cold	-	-	-	-	-	-	O	+	+	+	+	+	+	+	heed isocorrosion curves!	
		100 °C	-	-	-	-	-	-	O	+	+	+	+	+	+	+		
		40% ,cold	-	-	-	-	-	-	-	-	+	+	+	+	+	+	+	
		100 °C	-	-	-	-	-	-	-	-	+	+	+	+	+	+	+	
80% ,cold	100 °C	-	-	-	-	-	-	-	O	+	+	+	+	+	+	+		
		-	-	-	-	-	-	-	-	-	+	+	+	+	+	+		
Acetic aldehyde	CH ₃ -CHO	-	-	-	-	-	-	-	+	+	+	+	+	+	+	+	inflammable	
Acetic anhydride	(CH ₃ -CO) ₂ O	-	-	-	-	-	-	-	-	O	O	+	+	O	O	-		
Acetic pentylester	CH ₃ CaOC ₅ H ₁₁	-	-	-	-	+	-	-	+	+	+	+	+	+	+	+	inflammable	
Acetone	CH ₃ COCH ₃	+	+	+	+	+	-	-	+	+	+	+	+	+	+	+	inflammable	
Acrylic acid	CH ₂ =CHCOOH	-	-	-	-	-	-	-	-	+	+	+	+	-	+	-	Polymerized, light	
Acrylonitrile	CH ₂ =CHCN	+	+	+	+	+	-	-	+	+	+	+	+	-	+	+		
Alkazid solution,	Cold	+	+	+	+	+	-	-	+	+	+	+	+	-	+	O		
		-	-	-	-	+	-	-	O	+	+	O	+	+	+	-		
hot	Al(CH ₃ COO) ₂	-	-	-	-	O	-	-	+	+	+	O	-	-	+	+		
		-	-	-	-	O	-	-	-	-	O	-	-	-	+	+		
Aluminum chloride	AlCl ₃	-	-	-	-	O	-	-	-	-	O	-	-	-	+	O		
Aluminum hydroxide suspension		-	-	-	-	-	+	O	-	-	-	-	-	-	-	-	to 80 °C	
Aluminum sulphate	Al ₂ (SO ₄) ₃	-	-	-	-	O	-	-	O	O	+	+	-	-	+	O		
Ammonia, cold	NH ₃	-	+	+	+	+	-	-	+	+	+	+	+	-	+	-		
Ammonia water, boiling	NH ₄ OH	-	-	-	-	O	-	-	O	O	+	+	-	-	+	-		
Ammonium carbonate	(NH ₄) ₂ CO ₃	-	-	-	-	O	-	-	O	+	+	+	-	-	+	-		
Ammonium chloride	NH ₄ Cl	-	-	-	-	+	-	-	-	-	+	+	-	-	+	-		
Ammonium hydroxide	NH ₄ Cl	-	-	-	-	+	-	-	-	-	+	+	-	-	+	-	See ammonia	
Ammonium nitrate, cold	NH ₄ NO ₃	-	-	-	-	O	-	-	-	+	+	+	O	-	+	-		
Ammonium oxalate	(COONH ₄) ₂	-	-	-	-	O	-	-	+	+	+	+	-	-	+	-		
Ammonium sulfate	(NH ₄) ₂ SO ₄	-	-	-	-	O	-	-	O	+	+	+	-	-	+	-		
Ammonium sulfite	(NH ₄) ₂ SO ₃	-	-	-	-	O	-	-	O	+	+	+	-	-	+	-		
Ammonium thiocyanate, cold	NH ₄ SCN	-	-	-	-	O	-	-	O	+	+	+	-	-	+	-		
Amyl acetate	CH ₃ COOC ₅ H ₁₁	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	See acetic pentylester, inflammable	
Amyl alcohol	C ₅ H ₁₁ OH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	See pentanol, inflammable	
Aniline(=aminobenzene)	C ₆ H ₅ NH ₂	O	O	O	+	+	-	-	+	+	+	+	+	+	+	O	Temperature must be known, inflammable	
Asphalt		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Barium chloride	BaCl ₂	-	-	-	-	O	-	-	-	-	O	O	-	-	+	+		
Bauxite suspension		-	-	-	-	-	+	O	-	-	-	-	-	-	-	-	To 80 °C	
Beer		O	O	O	O	O	-	-	+	+	+	+	-	-	+	+		
Beer mash		+	+	+	+	+	-	-	+	+	+	+	+	+	+	+	for increased degrees of purity use 1.4408/9.4460	
Beer wort		+	+	+	+	+	-	-	+	+	+	+	+	+	+	+		
Benzenesulfonic acid	C ₆ H ₅ SO ₃ H	-	-	-	-	-	-	-	-	O	+	+	+	+	+	O		
Benzoic acid, aqueous	C ₆ H ₅ COOH	-	-	-	-	-	-	-	+	O	+	+	+	+	+	+		
Benzol	C ₆ H ₆	+	+	+	+	+	-	-	+	+	+	+	+	+	+	+	inflammable	
Benzyl acetate (=benzoic ether)	CH ₃ -COO-CH ₂ -C ₆ H ₅	O	O	O	O	O	-	-	+	+	+	+	+	+	+	O	inflammable	
Black liquor		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Precise analysis is necessary	
Bleaching liquor		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	see sodium hypochlorite	
Bonderizing solution		-	-	-	-	-	-	-	-	O	+	+	+	+	+	-		
Boric acid, aqueous	H ₃ BO ₃	-	-	-	-	-	-	-	-	O	+	+	+	+	+	+		
Brine (anolyte with >30 mg cl ₂ /l)		-	-	-	-	-	-	-	-	-	-	-	-	O	O	-	titanium, hard rubber(contact ASK)	
Butadiene, liquid	CH ₂ =(CH ₂) ₂ =CH ₂	O	O	+	+	+	-	-	+	+	+	+	+	+	+	+	inflammable	
Butane (liquefied gas)	C ₄ H ₁₀	O	O	+	+	+	-	-	+	+	+	+	+	+	+	+	inflammable	
Butanol(Butanol 1)	C ₂ H ₅ (CH ₂) ₂ OH	O	O	O	+	+	-	-	+	+	+	+	+	+	+	+	inflammable	
Butyl acetate	CH ₃ COOC ₄ H ₉	O	O	O	+	+	-	-	+	+	+	+	+	+	+	+	inflammable	
Butyric acid	CH ₃ -CH ₂ -CH ₂ -COOH	-	-	-	-	-	-	-	O	O	+	+	+	+	+	+		
Calcium bisulfite base	Ca(HSO ₃) ₂	-	-	-	-	-	-	-	-	O	+	+	+	+	+	O		
Calcium chloride	CaCl ₂	-	-	-	-	-	-	-	O	-	-	-	O	O	O	O	hard rubber, titanium, Hastelloy	
Calcium hydroxide	Ca(OH) ₂	O	O	O	+	+	-	-	O	+	+	+	+	+	+	+		
Calcium hypochloride	Ca(OCl) ₂	-	-	-	-	-	-	-	-	-	-	-	O	O	O	-	hard rubber, titanium, Hastelloy C	
Calcium nitrate	Ca(NO ₃) ₂	-	-	-	-	+	-	-	+	+	+	+	+	+	+	-		
Calcium sulfate suspension	CaSO ₄ + solid matter	-	-	-	O	-	O	O	+	+	+	-	-	O	O	O		
Carbon dioxide, aqueous solution	H ₂ CO ₃	-	-	-	-	-	-	-	+	+	+	+	+	+	+	O		
Carbon disulfide	CS ₂	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	inflammable	
Carbon tetrachloride	CCl ₄	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	anhydrous and acid-free	
Caustic lime	Ca(OH) ₂	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	see calcium hydroxide	
Caustic potash	KOH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	see potassium hydroxide	
Caustic soda	NaOH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	see sodium hydroxide	
Chlorethane (ADIP)	C ₂ H ₅ Cl	+	+	+	+	+	-	-	+	+	+	+	+	+	+	+	only, if anhydrous	
Chlorine,	Cl ₂	dry	O	+	+	+	-	-	+	+	+	+	+	+	+	-	≤ 30 °C	
		moist	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Hard rubber (≤80 °C), titanium, Hastelloy C (≤50 °C)	
Chlorobenzene	C ₆ H ₅ Cl	O	O	O	O	O	-	-	O	O	O	+	+	+	+	O	inflammable	
Chloroform	CHCl ₃	O	+	+	+	+	-	-	+	+	+	+	+	+	+	+	anhydrous and acid-free	
Chlorosulfonic acid, aqueous solution	SO ₂ (OH)Cl	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	hstelloy B	
Chromid acid, pure Concentration	CrO ₃	10% ,cold	-	-	-	-	-	-	+	+	+	+	+	+	+	+	heed isocorrosion curves!	
		boiled	-	-	-	-	-	-	O	-	-	-	-	-	-	-		
		50% ,cold	-	-	-	-	-	-	-	-	-	-	O	O	+	O	O	
		boiled	-	-	-	-	-	-	-	-	-	-	-	O	O	O	O	Si-cast iron
+ H ₂ SO ₄	cold	-	-	-	-	-	-	-	-	-	-	O	+	+	+	+		
		boiled	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Si-cast iron
Citric acid, aqueous solution	(CH ₂ COOH).C(OH).COOH	-	-	-	-	-	-	-	O	O	+	+	O	+	+	O		
Cooking lye (calcium bisulfate solution)	Ca(HSO ₃) ₂	-	-	-	-	-	-	-	-	-	-	-	+	+	+	+		
Cooper sulfate	CuSO ₄	-	-	-	-	-	-	-	O	O	+	+	+	+	+	O		
Cooper sulfate + 4% H ₂ SO ₄		-	-	-	-	-	-	-	-	O	O	+	+	+	+	+		

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Cresol	C ₆ H ₄ (CH ₃)OH	0	0	0	0	0			+	+	+	+	+	+	+	+	
Cyclohexanol	(CH ₂) ₆ CHOH	0	0	+					+	+	+	+	+	+	+	+	inflammable
Cyclohexanone	(CH ₂) ₆ CO	0	0	-					+	+	+	+	+	+	+	+	inflammable
Dichlor ethylene, anhydrous	CHCl=CHCl	+	+	-					+	+	+	+	+	+	+	+	
Dichloro benzene	C ₆ H ₄ Cl ₂	0	0	0	0	0			0	0	0	+	+	+	+	0	inflammable
Diethanolamine (DEA)	(C ₂ H ₅) ₂ NCH ₂ CH ₂ OH	+	+	-					+	+	+	+	+	+	+	+	for reasons of purity: 1.4408/9.4460
Dimethyl formamide	HCON(CH ₃) ₂	0	0	-					+	+	+	+	+	+	+	+	inflammable
Dimethyl terephthalate(DMT)	C ₆ H ₄ (COOCH ₃) ₂	-	-	-					0	+	+	+	+	+	+	0	melted
Dinitrobenzene, aqueous	C ₆ H ₄ (NO ₂) ₂	-	-	-					0	+	+	+	+	+	+	-	
Dye bath (basic or acid)		0	0	0	0	0	0	0	0	0	0	0	0	+	+	-	Contact ASK for combination
Ether (diethyl ether)	(C ₂ H ₅) ₂ O	+	+	+					+	+	+	+	+	+	+	+	highly inflammable
Ethyl acetate	CH ₃ COOC ₂ H ₅	+	+	+					+	+	+	+	+	+	+	+	
Ethyl alcohol (ethanol)	C ₂ H ₅ OH	0	+	+					+	+	+	+	+	+	+	+	inflammable
Ethylamine	C ₂ H ₅ NH ₂	-	-	-	0				+	+	+	+	+	+	+	-	
Ethylene, liquid	CH ₂ =CH ₂	-	-	-					-	+	-	-	-	-	-	-	unallloyed cold-tough cast steel, must be cold-tough at-140 °C
Ethylene carbonate	(CH ₂) ₂ CO ₃	+	+	+					+	+	+	+	+	+	+	+	
Ethylene glycol	CH ₂ OH-CH ₂ OH	+	+	+	+				+	+	+	+	+	+	+	+	
Ethylene oxide	(CH ₂) ₂ O	0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	inflammable
Fatty acid	C _n H _{2n+1} (COOH)	-	-	-					-	0	0	+	+	+	+	-	
Fatty alcohol and fats		0	0	+	+				+	+	+	+	+	+	+	+	Inflammable
Formaldehyde 40%,aqueous solution	CH ₂ O	-	-	-					0	+							
Formic acid	HCOOH																Heed isocorrosion curves!
Concentration 10%, Cold 90°C		-	-	-					-	-	+	+	+	+	+	+	
60%, Cold 60°C		-	-	-					-	-	0	+	+	+	+	+	
90%, Cold 60°C		-	-	-					-	-	0	+	+	+	+	+	>70°C Hastelloy C
		-	-	-					-	0	0	+	+	+	+	+	
		-	-	-					-	-	0	+	+	+	+	+	
Freon, frigen 12	F12:CF ₂ Cl ₂	-	0	0					-	+	+	+	+	+	+	-	
Fruit juices		-	-	-					-	+	+	+	+	+	+	-	
Fuel oil		0	0	+	0	+	0	0	+	+	+	+	+	+	+	0	Inflammable
Furfural	(CH) ₂ .O.C.CHO	0	0	0	0				0	+	+	+	+	+	+	0	Inflammable
Furfuryl alcohol	(CH) ₂ .O.C.C ₂ H ₄ OH	0	0	0	0				0	+	+	+	+	+	+	0	Inflammable
Glucose	C ₆ H ₁₂ O ₆	+	+	+	+				+	+	+	+	+	+	+	+	
Glycerin	CH ₂ OH-CHOH-CH ₂ OH	0	0	+	+				+	+	+	+	+	+	+	+	
Glycol (ethylene glycol)	(CH ₂ OH) ₂	0	0	0	+				+	+	+	+	+	+	+	+	
Green base																	Precise analysis is necessary
Heat transfer fluid oils		0	0	+	0	+	0	+	+	+	+	+	+	+	+	+	0
Hexane	C ₆ H ₁₄	0	0	+	+				+	+	+	+	+	+	+	0	Inflammable
Hydrobromic acid	HBr	-	-	-	-				-	-	-	-	-	-	-	-	Hastelloy B
Hydrochloric acid, aqueous solution	HCl	-	-	-	-				-	-	-	-	-	-	-	-	See hydrochlorid acid
Hydrochlorid acid	HCl	-	-	-	-				-	-	-	-	-	-	-	-	Hard rubber <80°C
Hydrocyanic acid	HCN	0	0	0	0				0	0	+	+	+	+	+	-	
Hydrofluoric acid,aqueous solution	HF	-	-	-	-				-	-	-	-	-	-	-	-	Hard rubber (≤40 °C)
Hydrogen peroxide	H ₂ O ₂	-	-	-	-				-	-	+	0	0	+	0	0	-
Iron (iii) chloride	FeCl ₃	-	-	-	-				-	-	-	-	-	-	-	-	Hard rubber (≤80 °C)
Iron (iii) sulphate	Fe ₂ (SO ₄) ₃	-	-	-	-				-	0	+	+	+	+	+	0	
Isobutyl alcohol	(CH ₃) ₂ CH.C ₂ H ₅ .OH	0	0	+	+				+	+	+	+	+	+	+	+	Inflammable
Isopropyl alcohol	(CH ₃) ₂ CHOH	0	0	+	+				+	+	+	+	+	+	+	+	Inflammable
Kerosene		0	0	+	+				+	+	+	+	+	+	+	0	Inflammable
Lactic acid	CH ₃ -CHOH.COOH	-	-	-					0	0	+	-	-	-	-	0	
Lactic acid (nitrating acid)	HNO ₃ +H ₂ SO ₄	-	-	-	-				-	0	0	0	0	0	0	-	Analysis is necessary
Latex		+	+	+	+				+	+	+	+	+	+	+	+	
Laurin lactam		-	-	-	-				0	0	+	-	-	-	-	0	
Linseed oil		0	0	+	0	+	0	0	+	+	+	+	+	+	+	+	Inflammable
Magnesium chloride	MgCl ₂	-	-	-	0				-	-	-	0	0	0	0	0	Hard rubber (≤80 °C)
Magnesium sulfate	Mg ₂ SO ₄	-	-	-	+				-	-	+	-	-	-	-	0	
Maleic acid	(HOOC) ₂ .(CH) ₂	-	-	-					-	0	+	-	-	-	-	+	
Manganous chloride	MnCl ₂	-	-	-	0				-	-	0	0	-	0	0	0	Hard rubber (≤80 °C)
Mercury	Hg	+	+	+	+				+	-	+	-	+	+	+	-	
Methanol	CH ₃ OH	0	0	+	+				+	-	+	-	+	+	+	+	Inflammable
Methyl acetate	CH ₃ COOCH ₃	-	-	-	-				0	+	+	-	-	-	-	0	Inflammable
Methylene chloride	CH ₂ Cl ₂	+	+	+	+				+	-	+	-	-	-	-	+	Anhydrous and acid-free
Milk		-	-	-					+	-	+	-	-	-	-	+	
Molasses		0	0	0	0	0	0	0	0	-	+	-	-	-	-	+	0
Monochloroacetic acid(anhydrous)	CH ₂ ClCOOH																
Cold																	Si-cast iron, Hastelloy C
70 °C																	Hastelloy C
Monoethanol amine (MEA)	H ₂ N-CH ₂ -CH ₂ OH	+	+	+	+				-	+	+	+	+	+	+	-	For reasons of purity 1.4408/9.4460
Naphthalene	C ₁₀ H ₈	0	0	+	+				+	-	+	+	+	+	+	+	
Nick chloride, cold concentration <20%	NiCl ₂	-	-	-	-				-	0	0	-	-	-	-	-	
>20%		-	-	-	-				-	-	-	0	-	-	-	-	Hard rubber
Nickel sulfate Cold (pure solution 80 °C)	NiSO ₄	-	-	-	-				-	-	+	+	+	+	+	-	
Nickel sulfate, aqueous solution	NiSO ₄	-	-	-	-				-	0	0	0	0	0	0	-	
Nitrating acid	H ₂ SO ₄ /HNO ₃	-	-	-	-				-	0	0	0	0	0	0	-	
Nitric acid, technical		-	-	-	-				-	0	0	0	0	0	0	-	It is indispensable to contact ASK!

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Stretford base		O	O	O					+	+	+	+	+	+	+	-	
Styrene	C ₆ H ₅ -CH=CH ₂	O	O	+		+			+	+	+	+	+	+	+	+	Inflammable
Sulfur, fused	S	+	+	+		+			+	+	+	+	+	+	+	-	<130°C
Sulfur dioxide, aqueous solution	H ₂ SO ₃	-	-	-		-			-	-	-	-	-	-	-	-	
Sulfuric acid, pure	H ₂ SO ₄																heed isocorrosion curves!
Concentration 10%	Cold	-	-	-		-			-	-	-	-	-	-	-	-	
	90 °C	-	-	-		-			-	-	-	-	-	-	-	-	
40%	Cold	-	-	-		-			-	-	-	-	-	-	-	-	
	40 °C	-	-	-		-			-	-	-	-	-	-	-	-	
55-80%	Cold	-	-	-		-			-	-	-	-	-	-	-	-	
	90% Cold	+	+	-		-			-	+	+	+	+	+	+	+	NORIDUR 9.4460 resist. in torrential acid(v=10m/s)
	40 °C	-	-	-		-			O	O	+	+	O	+	+	-	
	98% Cold	+	+	O		-			+	+	+	+	+	+	+	+	
	70 °C	-	-	-		-			-	-	-	-	-	-	-	-	
Sulfuric acid , technical		-	-	-		-			O	O	O	O	O	O	O	-	It is indispensable to contact ASK!
Sulfurous acid	H ₂ SO ₃	-	-	-		-			-	-	-	-	-	-	-	-	
Tannic acid	C ₇₆ H ₅₂ O ₄₆	-	-	-		-			O	O	+	+	+	+	+	-	
Tar, tar oils		O	O	+	O	+	O	O	+	+	+	+	+	+	+	+	O
Tartaric acid, aqueous solution	(CHOH) ₂ .(COOH) ₂	-	-	-	-	-	-	-	O	O	+	+	O	+	+	-	
Terephthalic acid	C ₆ H ₄ (COOH) ₂	-	-	-	-	-	-	-	O	O	+	+	O	+	+	-	
Titanium dioxide suspension	TiO ₂	-	-	-	-	-	-	-	-	-	-	-	-	+	+	-	With specification of analysis
Toluene (methibenzene)	C ₆ H ₅ -CH ₃	O	O	+	+	+	+	+	+	+	+	+	+	+	+	+	Inflammable
Trichloroacetic acid	CCl ₃ -COOH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Hastelloy C
Trichloroethene	CHCl=CCl ₂	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Anhydrous and acid-free
Trisodium phosphate	Na ₃ PO ₄	O	O	O	O	+	O	+	+	+	+	+	+	+	+	O	
Urea (carbamide)	CO(NH ₂) ₂	O	O	O	+	+	+	+	+	+	+	+	+	+	+	-	
Water:	H ₂ O																
Boiler feed water		O	O	+	+	+	+	+	+	+	+	+	+	+	+	O	Conditioned (see guidelines)
Brackish water		-	-	-	-	-	-	-	-	-	-	-	-	-	-	O	
Brackish water with sand		-	-	-	-	-	-	-	-	-	-	-	-	-	O	O	Depends very much on sand content
Chemistry waster water		O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	Analysis of pumped medium
Complete softening of water		-	-	-	-	-	-	-	+	+	+	+	+	+	+	+	
Condensate		O	O	+	+	+	+	+	+	+	+	+	+	+	+	+	Conditioned
Condensate (not boiler)		-	-	-	-	-	-	-	+	+	+	+	+	+	+	+	
Cooling water		O	O	O	O	+	O	+	O	+	+	+	+	+	+	O	
Demineraliz. Water =deionat		-	-	-	-	-	-	-	+	+	+	+	+	+	+	+	
Distilled water		-	-	-	-	-	-	-	+	+	+	+	+	+	+	+	
Drinking water		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Corrosion-chemically neutral
Fire water		O	O	O	O	+	O	+	O	+	+	O	+	+	+	+	
Heating water		O	O	+	+	+	+	+	+	+	+	+	+	+	+	O	Conditioned
Partial softening of water		-	-	-	-	-	-	-	O	+	+	+	O	+	+	+	
Pure water		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Corrosion-chemically neutral
Seawater		-	-	-	-	O	-	+	-	-	O	O	-	+	+	O	
Seawater with sand		-	-	-	-	-	-	-	-	-	-	-	-	-	O	O	
Sewage municipal		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
industrial		O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	Analysis of pumped medium
Sintering water		-	-	-	O	-	+	+	-	O	O	O	O	+	+	-	Analysis of pumped med. is necessary, cor-chem. neutral
Untreated water		O	O	O	O	+	O	+	O	+	+	O	+	+	+	O	Analysis of pumped medium Is necessary
Wine		-	-	-	-	-	-	-	O	+	+	+	+	+	+	-	
Zinc chloride	ZnCl ₂																
Concentration 20%,	Cold	-	-	-	-	-	-	-	O	O	O	+	+	O	+	+	Hard rubber
	80°C	-	-	-	-	-	-	-	O	-	-	O	O	-	+	+	Hard rubber , Si-cast iron
60%,	Cold	-	-	-	-	-	-	-	O	-	O	O	O	O	+	+	Hard rubber
	80°C	-	-	-	-	-	-	-	-	-	-	O	O	-	+	+	Hard rubber
Zinc sulfate	ZnSO ₄	-	-	-	-	O	-	O	O	O	O	+	O	+	+	O	H ₂ SO ₄ -free