

Corrosion Guide Instructions

Table of Size to Monitor

Refer -ences

Factory Questions

Gauge Selection Legend O
Details Ager

Oxidizing Agent Warning Sour Gas/Oil Warning

Dry Chlorine Warning Goto Data

WARNING:

This Guide is the only document to be used in making recommendations for corrosive service for Ashcroft, Inc. products. Call Customer Service for questions on unlisted chemicals or chemical concentrations.

The information provided here is for general information only. The end user is responsible for the choice of product(s) in his own application, based upon his own determination of the materials, chemical, and corrosion factors involved. THIS GUIDE AND ITS CONTENT ARE PROVIDED ON AN "AS IS" BASIS WITHOUT WARRANTY OF ANY KIND. THERE ARE NO WARRANTIES EXPRESS OR IMPLIED, INCLUDING THE WARANTY OF MERCHANTABILITY AND THE WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. WITHOUT LIMITING THE FOREGOING, ASHCROFT, INC., ITS DISTRIBUTORS AND SUPPLIERS MAKE NO REPRESENTATIONS OR WARRANTIES ABOUT THE ACCURACY, RELIABILITY, COMPLETENESS, OR CURRENTNESS OF THIS GUIDE AND ITS CONTENT. IN NO EVENT SHALL ASHCROFT, INC., ITS DISTRIBUTORS AND SUPPLIERS, OR ANY THIRD PARTIES MENTIONED IN THIS GUIDE BE LIABLE ANY DAMAGES (INCLUDING, WITHOUT LIMITATION, INCIDENTAL AND CONSEQUENTIAL DAMAGES, PERSONAL INJURY/WRONGFUL DEATH, LOST PROFITS, OR BUSINESS LOSSES) RESULTING FROM THE USE OF OR INABILITY TO USE THIS GUIDE OR ITS CONTENT, WHETHER BASED ON WARRANTY, CONTRACT, TORT, OR ANY OTHER LEGAL THEORY, AND WHETHER OR NOT ASHCROFT, INC., ITS DISTRIBUTORS AND SUPPLIERS, OR ANY THIRD PARTIES MENTIONED IN THIS GUIDE ARE ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, ANY LIABILITY OF ASHCROFT, INC., ITS DISTRIBUTORS AND SUPPLIERS, OR ANY THIRD PARTIES MENTIONED IN THIS GUIDE SHALL BE LIMITED TO ASHCROFT, INC.'S STANDARD TERMS OF SALE, WARRANTY, AND LIMITATION OF LIABILITY SHALL APPLY TO ALL SUCH SALES OR PROVISIONS OF SERVICE. PRODUCTS AND SERVICES ARE GUARANTEED TO BE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR FROM THE DATE OF DELIVERY THEREOF. ASHCROFT, INC., ITS DISTRIBUTORS AND SUPPLIERS, OR ANY THIRD PARTIES MENTIONED IN THIS GUIDE ARE NOT LIABLE FOR ANY PERSONAL INJURY, INCLUDING DEATH, CAUSED BY YOUR USE OR MISUSE OF THIS GUIDE OR ITS CONTENT. ANY CLAIMS ARISING IN CONNECTION WITH YOUR USE OF THIS GUIDE AND ITS CONTENT MUST BE BROUGHT WITHIN ONE (1) YEAR OF THE DATE OF THE EVENT GIVING RISE TO SUCH ACTION OCCURRED. REMEDIES UNDER THESE TERMS AND CONDITIONS ARE EXCLUSIVE AND ARE LIMITED TO THOSE EXPRESSLY PROVIDED FOR IN THESE TERMS AND CONDITIONS.

Careless use of this table could result in an accident endangering life and property. Most process plants or refineries have chemical or corrosion engineers, who are better able to specify instrument materials, since they are familiar with the details and past history of their own applications. This Guide should be used only when the end user has no such resource or additional sources of information. Consult the Stratford Customer Service Department about chemicals or conditions not covered in the Guide: Don't guess!

The table is intended to serve solely as a general guide in the recommendation of materials for corrosive services and must be regarded as indicative only and not as any guarantee for a specific service. There are many conditions which cannot be covered by a simple tabulation such as this, which is based on uncontaminated chemicals, not mixtures.

Many of the chemicals listed are dangerous or toxic. No material recommendation should be made when there is insufficient information, a high degree of risk, or an extremely dangerous chemical. The end user is responsible for testing materials in his own application, or for securing the services of a qualified engineer to recommend materials.

References:

This Guide was developed for Ashcroft Inc. products from manufacturer's literature and standard references such as:

Corrosion Data Survey, Metals Section (1985) or Non-Metals Section (1975), available from NACE, (National Association of Corrosion Engineers) P. O. Box 218340, Houston, TX 79231, Phone (713) 492-0535.

Chemical Resistance Guide for Metals and Alloys, --- Plastics, and --- for Elastomers, all published by Compass Publications, PO Box 2276, LaMesa CA 91943, Phone (619) 589-9636.

Chemical Resistance vol II Thermoplastic Elastomers, Thermosets and Rubbers 2nd ed. 1994, PDL, Plastics Design Library, Morris NY 13808.

To quote part of ASME B40.1 -2005 *Gauges – Pressure Indicating Dial Type – Elastic Element* Available from ASME, New York, NY; paragraphs 4.3.3 and 4.3.4:

The elastic element is generally a thin walled member, which operates under high stress conditions and must be carefully selected for compatibility with the pressure medium being measured. None of the common element materials are impervious to every type of chemical attack. The potential for corrosive attack is established by many factors, including the concentration, temperature and contamination of the medium.

In addition to the factors discussed above, the capability of the pressure element is influenced by the design, materials and fabrication of the joints between its parts.

Factory Questions:

The Stratford Engineering or Customer Service Departments will provide assistance when necessary, but the end users engineers should always be consulted first. If Ashcroft, Inc. is to be questioned, please be prepared with the following information.

Mandatory Information	Desired Information
* Temperature	* Impurities
* Pressure	* Inhibitors Used
* Concentration %	* Adjacent Piping Material
of each constituent	* Hazardous Location

Also, The name and phone number of the facility engineer or technical contact.

Be sure of the chemical name of the corrodent; seemingly minor differences in name can mean entirely different substances. For example, sodium nitrite is quite different from sodium nitrite. Cupric chloride has corrosion properties different from cuprous chloride.

Other Gauge Selection Guidelines:

Since a Bourdon tube is a spring, it may encounter corrosion fatigue. Minimize stresses by selecting a gauge with a pressure range twice the maximum operating pressure. Specify a liquid filled gauge with a throttle plug if there is pulsation or vibration.

To repeat ANSI B40.1 in part:

4.3.1 Operating pressure. The pressure gauge selected should have a range such that the operating pressure occurs in the middle half ... of the scale. A good rule of thumb is to select a gauge with a full scale pressure two times the intended operating pressure.

Do not use a steel Bourdon tube if the adjacent piping is a more corrosion resistant material; avoid mixing dissimilar metal alloys.

A diaphragm seal made of suitably corrosion resistant materials should be used where there is potential for corrosion of pressure elements; for clogging by solids, or abnormal temperature.

Corrosion Guide Legend Details:

O: An open circle means the material is OK for the service. The uniform corrosion rate is less than .002 per year and there is no tendency for pitting or stress corrosion. A Bourdon tube, bellows, diaphragm or lower housing of this material may be used.

An "O" under the "R" column indicates an "R" gauge system (carbon steel socket, 316 SS Bourdon tube) is permissible if the adjacent piping is iron or steel. There may be some rusting.

(C) Copyright 2001 ASH/PI 14D Updated 3/4/09

- L: The letter "L" indicates the uniform corrosion rate is less than .020 inches per year and the material is suitable only for a diaphragm seal lower housing. It is **NOT** suitable for a Bourdon tube, bellows or diaphragm.
- X: Cross in box: material is not recommended, there is insufficient information, or there are complex restrictions that cannot be addressed in this simple table. The Stratford Engineering Department has access to more detailed corrosion information and may be consulted if there are questions and there is no facility engineer available.
- * See special note in left column of this line

Observe the temperature limitations in the table for rubber and plastic components. These may be lower than temperature listed for the corrodent.

Halar is a trade name of Solvay Solexis, Kalrez, Teflon and Viton are trademarks of DuPont. Kynar is a trademark of Elf Atochem North America.

Oxidizing Agent Warning:

The PLUS! ® (XLL) variation may be used for a gauge intended for service on oxygen or an oxidizing chemical.

Liquid Fill for Gauges and Diaphragm Seals Used With Oxidizing Agents:

HALOCARBON® gauge or diaphragm seal fill is required for use with media which are strong oxidizing agents. Leakage of strong oxidizing agents may cause fires or violent reactions if mixed with glycerin, silicone or oil, instrument fills. To specify Halocarbon®, add variation XGX to the product code for gauges, or variation XCF for diaphragm seals. Any liquid may be used to fill a gauge on a diaphragm seal.

Halocarbon is mandatory for use with:

* dry or moist **Chlorine, Oxygen, Ozone**, **or ETO** (Ethylene Oxide),

* with concentrated Sulfuric acid, or Nitric acid

* with concentrated Sodium Hypochlorite, Sodium Chlorite, Sodium Chlorite, Chlorine Dioxide, or Hydrogen Peroxide.

Less common chemicals requiring HALOCARBON include aqueous solutions, with over 10% of chemical compounds, whose name ends in any of the following:

(For example, hydrogen peroxide, sodium permanganate, potassium chlorate).

* Bromate

* Perchlorate

* Chlorate & Chlorite

* Permanganate

* Chromate

* Persulfate

* Hypochlorite incl. Sodium Hypochlorite

* Perodate

* Dichromate

* Perodate

* N. . . O N.

* Peroxide, incl. Hydrogen Peroxide

* Nitrate & Nitrite

* Perselenate

* Perborate

Halocarbon is a trademark for chlorotrifluoroethylene (CTFE) oils and greases made by Halocarbon Products Corporation, River Edge, NJ. Occidental Chemical's Fluorolube®, has the same non-reactive chemical, both carry the CAS number 9002-83-9. CAS (Chemical Abstracts Service) is a division of the American Chemical Society that assigns a <u>unique</u> identifying number for each chemical compound and its structure.

Dilute water solutions (over 90% water) of these chemicals do not normally behave as oxidizing agents. The customer's facility engineer is responsible for deciding whether a solution could be hazardous.

In the following corrosion chart, chemical names with a 🍑 (Bomb Symbol) are oxidizing agents and Halocarbon fill should be used for solutions with over 10% of the chemical

If in doubt whether a material is an oxidant, consult the facility engineer, Stratford Engineering, or a reference such as Dangerous Properties of Industrial Materials, N.I. Sax, Van Nostrand Reinhold, or the U. S. Department of Transportation Hazardous Materials Table in 49CFR 172.101 the Merck Index, or other publications.

Sour Gas/Oil Warning:

NACE Gauges and Pressure Products for Sour Gas or Oil Service:

Please see ASH/PI-60 for oilfield or refinery applications requiring instruments meeting MRO175/ ISO 15156 OR NACE MRO0103.

Non-metals are not yet covered by the NACE standard. Teflon TFE has a good rating but it is permeable. Viton is not recommended and the Kalrez compound 2037 used for Ashcroft diaphragms, has poor resistance to the amine inhibitors frequently used to reduce corrosion of metals in sour oil fields.

Dry Chlorine/Titanium Warning

Please note that **Titanium** is **not suitable** when exposed to **dry chlorine** (either vapor or liquid). In the absence of water, Titanium can burn and possibly explode, even at room temperature.

<u>Do not confuse Titanium with Tantalum</u>. Tantalum is fully resistant to dry or wet chlorine and is the most frequently used diaphragm material when combined with a Hastelloy C lower housing.

<u>Do not confuse liquid chlorine with "wet" chlorine.</u> Wet means there is water mixed with the chlorine, which can form hydrochloric acid. Chlorine gas liquefies at about 120 psi and is normally shipped as a liquid in pressurized containers.

Chlorine is the highest volume chemical produced in the USA and is used extensively in treating both potable water and sewage treatment.

Hydrogen Warning

Please note that for systems over 1000 psi the entire wetted system must be Type 316 stainless steel.

SASHCROFT	VC.																										
	O = OK For India							R" S	4			issil	ole v	vith	Stee	el Pi	ping	J						rial C	ode		
LEGEND	L = OK for Lowe X = Unsuitable of				rmatic		° = ŀ	Halo	carb	on l	Fill	(G	ioto	Halo	ocar	rbon				Gre						
Call Customer Service 203-378-82			licien	t IIIIO	matic)11				ME	ΓAL	s									LAS		_	EL	AST	ОМЕ	RS
Size to Fit Monitor Corrodent	Common Names & Formulas	Corrodent Temp. °F MAX	Concentration % in H2O	403/410 SS [SE]	Carbon Steel [B]	304 SS [C]	316 SS [S], [SL]	. 20 Cb 3 [D]	Phos. Bronze [A]	Brass [AA]	Monel [P OR M]	Nickel [N]	Inconel 600,718 [W],[WW]	Hastelloy B2 [G]	Hastelloy C276 [H]	Tantalum [U]	Titanium [TI] (<160°F)	"R" Systems		PVC (-40/140°F) [V]	Kynar (PVDF) (180°F) [KY]	Halar (ECTFE) (250°F)	Teflon (TFE) (400°F) [T]	Neoprene (CR) (140℃)	Viton (FKM) (300°F) [Y]	Buna "N" (NBR) (150°F)	Kalrez 2037 (200°F) [K]
ACETIC ACID		200	<40	Х	Х	х	0	0	Х	х	Х	Х	Х	Х	0	0	0	Х	•	Х	0	0	0	Х	Х	Х	0
ACETIC ANHYDRIDE		200	-	Х	Х	х	Х	х	Х	Х	Х	Х	Х	Х	0	0	0	Х	•	Х	Х	Х	0	Х	Х	Х	0
ACETONE		150	-	Х	Х	o	0	o	0	o	0	0	0	0	0	0	o	0		Х	Х	Х	0	Х	Х	Х	0
ACETYLENE, DRY (Explosive in Cu)		200	100	0	0	0	o	0	Х	х	Х	0	o	o	o	o	o	o		Х	х	х	0	Х	Х	Х	0
ACROLEIN		200	100	х	Х	L	L	L	Х	Х	L	L	L	L	L	0	0	Х		Χ	Х	Х	0	Х	Х	Х	0
ALUMINUM CHLORIDE	AICI ₃	150	-	Х	Х	х	Х	х	Х	х	Х	Х	х	х	0	Х	Х	Х	•	L	0	0	0	0	0	0	0
ALUMINUM SULFATE	Alum. Al2(SO4)3	150	< 50	Х	Х	L	L	L	Х	х	Х	Х	х	0	0	0	0	Х	•	L	0	o	o	0	0	0	0
Ammonia Anhydrous (Wet, see Ammonium Hydroxide)	DOT Quality NH ₃	300	100	0	o	0	0	0	х	х	х	х	х	L	L	х	х	0		Х	х	0	0	х	х	х	х
AMMONIUM CHLORIDE	Sal Ammoniac NH ₄ Cl	200	<40	Х	х	х	Х	х	Х	х	Х	х	х	х	o	0	0	Х		Х	0	0	0	0	0	Х	0
AMMONIUM HYDROXIDE	Ammonia Water NH ₃ in Water	120	<30	Х	Х	L	0	L	Х	Х	Х	Х	Х	L	L	Х	o	Х		o	o	o	o	0	Х	0	0
AMMONIUM NITRATE	Norway Saltpeter NH ₄ NO ₃	200	<50	L	Х	0	0	0	Х	Х	Х	Х	Х	Х	L	0	0	0		0	0	Х	0	0	Х	0	0
AMMONIUM SULFATE	(NH ₄) ₂ SO ₄	200	<60	Х	Х	Х	L	L	Х	Х	Х	L	Х	Х	L	0	0	Х		0	0	0	0	0	Х	0	0
AMYL ACETATE		250	-	Х	L	0	0	0	Х	Х	Х	Х	Х	0	0	0	0	o		Χ	Х	Х	0	Х	Х	Х	0
ANILINE		200	>99	Х	Х	0	0	0	Х	Х	L	L	L	Х	Х	0	0	Х		Х	Х	Х	0	Х	Х	Х	0
BEER		200	-	Х	Х	0	0	0	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х		0	0	Х	0	0	Х	0	Х
BENZENE	C ₆ H ₆	200	<50	L	L	0	0	0	0	L	0	0	0	Х	Х	0	0	0		Х	Х	Х	0	Х	Х	Х	0

	O = OK For India	ated S	ervice)		R	= "F	l" Sy	/ster	m Pe	ermi	issib	le v	vith	Stee	el Pi	ping	j.]	= A	scro	oft N	later	ial C	ode		
LEGEND	L = OK for Lowe			_	_		= H	lalo	carb	on F	ill		G	ioto	Hal	ocar	bon						r Th	an				
Call Customer Camine 200 070 00	X = Unsuitable o		ficien	t Info	matic	n				МЕТ	AI (Les		han		-1	ΛОТ	ОМЕ	DC
Call Customer Service 203-378-82	81 for unlisted chemic	ais								VII=	AL	•											,-S		- FL	AST	JIVIL	пЭ
Size to Fit Monitor Corrodent	Common Names & Formulas	Corrodent Temp. °F MAX	Concentration % in H2O	403/410 SS [SE]	Carbon Steel [B]	304 SS [C]	316 SS [S], [SL]	Carp. 20 Cb 3 [D]	Phos. Bronze [A]	Brass [AA]	Monel [P OR M]	Nickel [N]	Inconel 600,718 [W],[WW]	Hastelloy B2 [G]	Hastelloy C276 [H]	Tantalum [U]	Titanium [TI] (<160 ℃)	"R" Systems	_	PVC (-40/140°F) [V]	Kynar (PVDF) (180°F) [KY]	Halar (ECTFE) (250°F)	Teflon (TFE) (400 °F) [T]		Neoprene (CR) (140°F)	Viton (FKM) (300°F) [Y]	Buna "N" (NBR) (150°F)	Kalrez 2037 (200°F) [K]
BENZIDINE		200	>99	L	L	L	L	L	L	L	L	L	L	L	L	o	0	Х		Х	Х	Х	х		Х	Х	Х	0
BENZOIC ACID		200	<70	L	Х	L	L	Г	Х	х	L	L	Х	0	0	0	0	Х		Χ	0	L	0		Х	Х	Х	0
BLACK LIQUOR		200	-	х	х	х	Х	L	Х	Х	Х	х	Х	х	Х	Х	Х	Х	-	Х	Χ	L	0		Х	0	Х	х
BORIC ACID	H ₃ BO ₄		<25	х	х	0	0	0	L	L	L	L	L	o	0	o	0	Х		0	0	0	0		0	o	0	o
BROMINE, DRY 6* (< 57 PPM H ₂ O)	Br	140	>99*	Х	Х	Х	Х	Х	Х	Х	L	L	0	L	L	0	Х	Х		Χ	0	o	х		Х	o	Х	o
BROMOBENZENE		200	>99	х	Х	0	o	0	х	х	L	L	L	L	0	o	0	0		Χ	Χ	Х	0		Х	0	Х	0
BUTADIENE (BUTYLENE)		200	>99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		Χ	0	X	0		X	Х	Х	0
BUTANE	C ₄ H ₁₀	200	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		Χ	0	0	0		Х	0	0	0
BUTYL ALCOHOL	Butanol	200	-	0	Х	0	0	0	0	0	0	0	0	0	0	0	0	Х		Χ	0	0	0		0	0	0	0
BUTYRIC ACID		200	<10	Х	Х	L	L	ا	Х	X	X	Х	X	0	0	0	0	Х		Χ	0	0	0		X	Х	Х	0
CALCIUM BISULFITE	Ca(HSO ₃) ₂	250	>90	Х	Х	х	0	Х	Х	Х	Х	х	Х	х	Х	Х	0	Х		0	0	0	0		0	0	Х	0
CALCIUM CHLORIDE	CaCl ₂	200	<80	Х	Х	х	х	Х	Х	Х	Х	х	0	0	0	0	0	Х		0	0	0	0		0	0	0	0
CALCIUM HYDROXIDE	Slaked Lime Ca(OH) ₂	200	<50	Х	Х	Х	L	Х	Х	Х	Х	Х	Х	Х	0	0	0	х		0	0	0	0		0	0	0	0
CALCIUM Hypochlorite	Ca(OCI) ₂	75<	<10	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	L	0	0	Х		0	0	0	0		Х	0	Х	0
CARBON DIOXIDE, WET	CO ₂	150	>50 ppm	Х	Х	0	0	0	Х	Χ	0	Х	0	0	0	0	0	Х		0	0	0	0		Х	0	0	0
CARBON MONOXIDE	со	200	>99	0	0	0	o	0	0	0	o	Х	o	o	o	o	0	0		Х	0	Х	o		0	0	0	0
CHLORINATED WATER (<10ppm Chlorine)		70	<10 ppm	х	х	o	o	0	o	o	o	х	Х	L	o	o	o	х		0	0	0	o		Х	0	Х	o
CHLORINATED WATER (To Saturation)		120	-	Х	Х	Х	Х	0	Х	Х	Х	х	Х	L	0	0	0	Х		0	0	0	х		Х	х	Х	0

LEGEND	O = OK For Indic L = OK for Lowe X = Unsuitable o	<mark>r Hous</mark> r Insuf	ing O	nly	matic	6 %			/ster carb			ssib		vith oto					> =		eate	r Th	ial C	ode		
Call Customer Service 203-378-82	81 for unlisted chemic	als								MET	ALS	S							Р	LAS	TIC	S	EL,	AST	OME	RS
Size to Fit Monitor Corrodent	Common Names & Formulas	Corrodent Temp. °F MAX	Concentration % in H2O	403/410 SS [SE]	Carbon Steel [B]	304 SS [C]	316 SS [S], [SL]	Carp. 20 Cb 3 [D]	Phos. Bronze [A]	Brass [AA]	Monel [P OR M]	Nickel [N]	Inconel 600,718 [W],[WW]	Hastelloy B2 [G]	Hastelloy C276 [H]	Tantalum [U]	Titanium [TI] (<160年)	"R" Systems	PVC (-40/140°F) [V]	Kynar (PVDF) (180°F) [KY]	Halar (ECTFE) (250°F)	Teflon (TFE) (400 °F) [T]	Neoprene (CR) (140°F)	Viton (FKM) (300°F) [Y]	Buna "N" (NBR) (150°F)	Kalrez 2037 (200°F) [K]
CHLORINE, DRY 🍑	Cl ₂																									
(*See Page 4 in Text) (<50ppm H ₂ O)		200	>99	Х	Х	Х	Х	L	Х	Х	Х	L	Х	Х	L	0	Х*	Х	Χ	L	Х	Х	Х	0	Х	0
CHLORINE, MOIST ●		160	>90	Х	Х	Х	Х	Х	х	Х	Х	Х	Х	Х	L	0	Х	х	Х	L	Х	Х	Х	Х	Х	х
CHLOROACETIC ACID		150	<30	Х	Х	х	Х	Х	х	Х	L	х	Х	L	L	0	L	х	Х	Х	0	Х	Х	Х	Х	0
CHLOROFORM, DRY	Trichloromethane CHCl ₃	100	>99	Х	Х	0	0	0	Χ	Χ	0	0	0	Х	Χ	0	0	Х	Χ	0	0	0	Х	Х	Х	0
CHROMIC ACID	Chromium Trioxide H ₂ CrO ₄	200	<30	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Χ	0	0	Х	Χ	0	0	0	Х	0	Х	0
CITRIC ACID		200	>10 <50	Х	Х	L	0	0	Х	Х	L	L	L	0	0	0	0	Х	0	0	0	0	0	0	0	0
COPPER NITRATE	Cupric Nitrate Cu(NO ₃) ₂	200	<10	Х	Х	0	0	0	Х	Χ	Χ	Х	Х	Х	Х	0	0	Х	Х	0	0	0	0	0	o	o
COPPER SULFATE	Cupric Sulfate CuSO ₄	200	<30	Х	Х	L	L	0	Х	Χ	Χ	Х	Х	Х	0	0	0	Х	0	0	0	0	0	0	0	o
CREOSOTE	Coal-Tar	200	-	Х	L	L	L	L	L	L	L	L	L	L	0	0	Х	Х	Χ	Х	Х	0	Х	0	Х	0
CRESOL		200	>99	0	Х	0	0	0	0	L	0	0	0	0	0	0	L	Х	Х	0	Х	0	Х	Х	Х	0
CRUDE OIL - Sour (See Warning Pg. 4 text)		<200	<5	Х	Х	Х	Х	Χ	Х	Χ	0	Х	Х	Х	0	0	Х	Х	Χ	0	0	0	Х	Х	Х	х
CRUDE OIL - Sweet, Low Sulfur		200	-	Х	L	0	0	0	Χ	Χ	0	0	0	0	0	0	0	0	0	0	0	0	Х	0	Х	0
CUPRIC CHLORIDE		200	<40	Х	Х	Х	Х	Х	Х	Χ	Χ	Х	Х	Х	Χ	0	0	Х	0	0	0	0	0	0	o	o
DOWTHERM A		300	-	0	0	0	o	0	0	Х	0	0	0	0	0	0	o	0	Х	Х	Х	0	Х	Х	Х	0
ETHYL ACETATE		<200	-	Х	L	0	0	0	0	0	0	0	0	0	0	0	0	0	Χ	Χ	Х	0	Х	Х	Х	0
ETHYL ALCOHOL	Ethanol C ₂ H ₅ OH	200		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ETHYL CHLORIDE, DRY		<200	>99	o	0	Х	Х	0	0	0	0	0	0	0	0	0	0	0	Χ	0	0	0	Х	0	0	o

	O = OK For Indic	ated S	ervice	е		R	= "F	l" Sy	yste	m Po	ermi	issik	ole v	vith	Stee	el Pi	ping	J.]	= A:	scro	oft I	Mate	rial C	ode		
LEGEND	L = OK for Lowe						[€] = F	lalo	carb	on F	Fill		G	ioto	Halo	ocar	bon				Gre							
0.11.0	X = Unsuitable o		ficien	t Info	rmatic	n				, I	- T								i		LAS		_	1		АСТ	OME	DC.
Call Customer Service 203-378-82	181 for unlisted chemic	als								ME	AL	0								ľ	LAS) IIC	,S			ASI	OME	нS
Size to Fit Monitor Corrodent	Common Names & Formulas	Corrodent Temp. °F MAX	Concentration % in H2O	403/410 SS [SE]	Carbon Steel [B]	304 SS [C]	316 SS [S], [SL]	Carp. 20 Cb 3 [D]	Phos. Bronze [A]	Brass [AA]	Monel [P OR M]	Nickel [N]	Inconel 600,718 [W],[WW]	Hastelloy B2 [G]	Hastelloy C276 [H]	Tantalum [U]	Titanium [TI] (<160°F)	"R" Systems		PVC (-40/140°F) [V]	Kynar (PVDF) (180°F) [KY]	Halar (ECTFE) (250°F)	Teflon (TFE) (400 ℃) [T]		Neoprene (CR) (140°F)	Viton (FKM) (300°F) [Y]	Buna "N" (NBR) (150°F)	Kalrez 2037 (200°F) [K]
ETHYLENE GLYCOL	Glycol	200	>40	Х	Х	0	0	0	L	L	L	L	L	0	0	0	0	Х		0	0	0	0		0	0	0	0
ETHYLENE OXIDE	ЕТО	100	>99	Х	0	0	0	0	0	0	0	0	0	х	Х	0	Х	0		Х	0	0	0		Х	Х	Х	0
FERRIC CHLORIDE (*Viton <170°F)	FeCl ₃	200	<40	х	Х	х	Х	х	Х	х	Х	Х	х	х	Х	0	0	х		0	0	o	o		0	o*	0	o
FERRIC SULFATE (*Viton <170°F)	Fe ₂ (SO ₄) ₃	150	<10	Х	Х	0	0	0	Х	Х	Х	Х	0	Х	0	0	0	Х		0	0	o	o		o	o*	o	0
FERROUS CHLORIDE (*Viton <170°F)	FeCl ₂	200	<30	Х	Х	х	Х	Х	Х	Х	Х	Х	Х	Х	L	o	o	х	ı	0	0	o	o		Х	o*	0	0
FERROUS SULFATE (*Viton <170°F)	FeSO ₄	200	<50	х	Х	х	Х	L	Х	Х	Х	Х	Х	L	L	0	0	Х		0	0	0	o		0	o*	0	o
FLUORINE, GAS DRY No Air or O ₂	F	200	>99	х	Х	х	Х	Х	Х	Х	0	0	0	Х	Х	Х	Х	Х		Х	Χ	Х	Х		Х	Х	Х	х
FLUOROSILICIC ACID	Fluosilicic Acid H ₂ SiF ₆	140	<30	х	Х	х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х		0	0	0	Х		Х	0	0	0
FORMALDEHYDE (*316SS <90%)		200	-	Х	Х	х	o*	0	Х	Х	0	0	0	Х	Х	0	0	Х		Х	Х	Х	0		Х	Х	Х	0
FORMIC ACID		<150	-	х	Х	х	Х	Х	Х	Х	Х	Х	Х	L	L	0	Х	х		Х	0	0	o		Х	Х	Х	0
FURFURAL		200	<10	Х	Х	0	Х	0	L	L	L	L	Х	L	0	0	L	х		Х	Х	0	0		Х	Х	Х	0
GASOLINE (*Flowing-Phos Bronze)		200	-	х	х	0	0	Х	o*	L	х	Х	L	0	0	0	Х	х		X	0	0	0		Х	0	0	o
GLUCOSE		300	-	Х	Х	0	o	o	o	o	o	o	o	o	0	0	0	х		0	0	0	o		0	0	0	0
GLYCERINE	Glycerol	200	-	0	0	0	0	0	o	0	o	0	0	0	0	0	0	0		0	0	0	0		0	0	0	o
HEXANE, DRY		200	>99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		Х	0	0	0		Х	0	0	0
HYDRAZINE		100	-	Х	Х	0	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х		Х	0	Х	0		Х	Х	Х	0
HYDROBROMIC ACID	HBr	140	-	Х	Х	х	Х	Х	Х	Х	Х	Х	Х	Х	Х	0	0	Х		Х	L	0	х		Х	0	Х	0
HYDROCHLORIC ACID	HCI, Muriatic Acid	100	<38	Х	Х	х	Х	Х	Х	Х	Х	Х	Х	L	Х	0	Х	х		Х	0	0	Х		Х	0	Х	0

LEGEND	O = OK For Indic	r Hous	ing O	nly		6%			yste: carb			ssib			Stee Halo			ļ.	>	- = (Gre	ateı	Tha	ial C	ode		
Call Customer Service 203-378-820	X = Unsuitable o		ticien	t Infoi	rmatic	n				MET	ΔΙ	<u> </u>										s TI			AST	ОМЕ	:RS
Call Customer Service 203-370-620	or for unisted chemic									VII	AL-	,	M				ا								-01		三 三
Size to Fit Monitor Corrodent	Common Names & Formulas	Corrodent Temp. °F MAX	Concentration % in H2O	403/410 SS [SE]	Carbon Steel [B]	304 SS [C]	316 SS [S], [SL]	Carp. 20 Cb 3 [D]	Phos. Bronze [A]	Brass [AA]	Monel [PORM]	Nickel [N]	Inconel 600,718 [W],[WW]	Hastelloy B2 [G]	Hastelloy C276 [H]	Tantalum [U]	Titanium [TI] (<160°	"R" Systems	PVC (-40/140°F) [V]		Kynar (PVDF) (180°F) [KY]	Halar (ECTFE) (250°F)	Teflon (TFE) (400 °F) [T]	Neoprene (CR) (140°F)	Viton (FKM) (300°F) [Y]	Buna "N" (NBR) (150°F)	Kalrez 2037 (200°F)
HYDROFLUORIC ACID (No Air)	HF	120	<50	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	ľ	0	0	Χ	Х	Х	Х	Х
HYDROFLUOSILIC ACID	Fluosilicic Acid	140	<30	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	O		0	0	Х	Χ	0	o	0
HYDROGEN (See Warning Pg. 4 Text)	H ₂	200	-	х	Х	х	0	х	0	0	Х	Х	Х	х	х	Х	Х	Х	Х	,	0	Х	Χ	0	0	0	0
Hydrogen Peroxide 🍑	H ₂ O ₂	100	<30	х	х	L	0	х	х	Х	Х	Х	Х	х	Х	0	Х	Х	Х	,	0	0	0	Х	Х	Х	0
HYDROGEN SULFIDE (See Sour Gas/Oil Warning)	H₂S	140	-	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	0	o	Х	х	X		0	0	Х	Х	Х	Х	Х
KEROSENE	Kerosine	200	>99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	O		0	0	0	Х	0	0	o
LACTIC ACID		<100	<70	Х	Х	0	0	0	Х	X	Χ	X	Χ	L	L	0	0	Х	Х	,	0	0	0	Х	0	Х	0
MAGNESIUM CHLORIDE	MgCl ₂	200	<40	Х	х	х	Х	х	х	Х	Х	Х	Х	х	0	0	0	Х	0		0	0	0	0	0	0	0
MAGNESIUM SULFATE	Epsom Salts MgSO ₄	200	<40	Х	Х	0	0	0	0	0	0	0	Х	o	Х	0		O	O		0	0	0	0	0	0	0
MERCURIC CHLORIDE	HgCl ₂	200	<60	Х	Х	х	Х	х	х	Х	Х	х	Х	х	х	0		Х	O		0	0	0	Х	0	0	0
MERCURY	Quicksilver Hg	200	>99	0	0	0	0	0	Х	Х	X	0	X	Х	0	X		O	O		0	0	0	0	0	0	0
METHANE DRY, NO H ₂ S	CH ₄	200	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	O		0	0	0	Х	0	0	0
METHYL ETHYL KETONE	M.E.K.	120	>99	х	L	0	0	0	Х	Х	Х	Х	Х	Х	Х	Х		0	Х		х	Χ	0	Х	Х	Х	0
MILK				Х	Х	0	0	Х	Х	Х	Х	Х	0	Х	0	Х	Х	Х	O		0	0	0	0	0	0	Х
MORPHOLINE		200	>99	0	0	0	0	0	0	0	0	0	o	0	0	Х	0	0	Х		х	Х	0	Х	Х	х	0
NAPHTHA	Benzin	200	>99	0	0	0	0	o	o	0	0	0	0	o	0	0	0	o	O		0	0	0	Х	0	0	0
NAPHTHALENE	Tar Camphor C ₁₀ H ₈		>99	0	0	0	0	0	L	L	0	0	0	Х	Х	L	0	o	X		0	Х	0	Х	0	Х	0
Natural Gas, DOT Quality (*Cu alloy<100PSI.)		150	-	L	L	L	o	Х	o*	o*	L	Х	Х	х	0	0	Х	o	X		0	Х	0	0	0	0	o

LEGEND	O = OK For Indic L = OK for Lower X = Unsuitable o	r Hous	ing O	nly	matic	6 %		l" Sy Ialoo				issik		vith :						> =		eate	r Th	ial C	ode		
Call Customer Service 203-378-828										MET	AL	s								Р	LAS	TIC	s	EL	AST	ОМЕ	RS
Size to Fit Monitor Corrodent	Common Names & Formulas	Corrodent Temp. °F MAX	Concentration % in H2O	403/410 SS [SE]	Carbon Steel [B]	304 SS [C]	316 SS [S], [SL]	Carp. 20 Cb 3 [D]	Phos. Bronze [A]	Brass [AA]	Monel [P OR M]	Nickel [N]	Inconel 600,718 [W],[WW]	Hastelloy B2 [G]	Hastelloy C276 [H]	Tantalum [U]	Titanium [TI] (<160 ºF)	"R" Systems		PVC (-40/140°F) [V]	Kynar (PVDF) (180°F) [KY]	Halar (ECTFE) (250°F)	Teflon (TFE) (400 °F) [T]	Neoprene (CR) (140℉)	Viton (FKM) (300°F) [Y]	Buna "N" (NBR) (150°F)	Kalrez 2037 (200°F) [K]
NICKEL CHLORIDE	NiCl ₂	200	<80	х	х	Х	х	Х	Х	Х	х	х	х	0	0	0	0	Х		0	0	0	0	0	0	0	o
NICKEL SULFATE	NiSO ₄	200	-	х	х	L	0	L	Х	Х	Х	Х	х	Х	Х	Х	0	Х		L	0	0	0	0	0	0	0
NITRIC ACID ●	HNO ₃	<100	<95	х	Х	o	o	0	Х	Х	Х	х	Х	Х	Х	0	Х	Х	•	Х	0	0	o	Х	Х	Х	х
NITROUS OXIDE (DRY)	Laughing Gas N ₂ O	<100	>99	Х	Х	L	L	L	Х	Х	Х	Х	Х	Х	L	o	Х	Х		Х	Х	o	o	Х	Х	Х	o
OLEIC ACID		200	-	Х	Х	L	L	0	L	L	L	L	0	L	L	0	L	Х	•	Х	0	0	o	Х	х	Х	o
OXALIC ACID		140	<50	х	Х	х	Х	Х	Х	Х	Х	х	Х	Х	L	0	Х	х	•	L	0	0	0	Х	0	Х	0
OXYGEN GAS ("X6B")	O ₂	120	-	Х	Х	0	0	0	0	0	0	Х	0	0	0	0	Х	Х		0	0	0	o	0	Х	Х	х
OZONE •	O ₃	120	<8	Х	Х	0	0	0	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х		Х	0	0	0	Х	х	Х	0
PALMITIC ACID		160	>99	Х	Х	0	o	Х	Х	Х	Х	Х	Х	Х	0	Х	Х	Х	•	Х	0	o	o	Х	0	0	0
PHENOL		120	>90	х	Х	0	0	0	Х	Х	L	0	0	Х	0	0	Х	Х	•	Х	0	Х	0	Х	0	Х	0
PHOSPHORIC ACID	H₃PO₄	100	<60	Х	Х	0	0	0	Х	Х	Х	Х	L	0	0	0	Х	Х		0	0	0	0	Х	0	Х	0
PHTHALIC ANHYDRIDE		200	>99	х	0	o	0	0	Х	Х	0	0	0	0	0	0	Х	0		Х	Х	Х	0	Х	Х	Х	0
PICRIC ACID		200	<10	х	Х	0	0	Х	Х	Х	Х	Х	Х	Х	L	0	Х	Х		Х	Χ	Х	0	Х	0	Х	0
Potassium Chloride	KCI	150	<30	Х	Х	Х	Х	Х	Х	Х	L	L	х	L	0	0	0	Х		Х	0	0	0	0	0	0	0
Potassium Hydroxide	КОН	160	<50	Х	L	L	L	L	Х	Х	0	0	L	L	L	Х	Х	Х		0	Х	0	o	o	х	Х	0
POTASSIUM NITRATE	Saltpeter KNO ₃	200	<50	L	L	L	L	Х	L	L	L	L	L	Х	L	0	0	Х		0	0	0	o	o	0	0	0
POTASSIUM NITRITE	KNO ₂	200	<50	L	L	L	L	L	L	L	L	L	L	L	L	Х	Х	Х		0	Х	Х	0	0	х	Х	0
POTASSIUM PERMANGANATE	KMnO ₄	140	<30	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	0	0	Х		Х	0	0	0	0	Х	Х	0

LEGEND	O = OK For Indic L = OK for Lowe X = Unsuitable o	<mark>r Hous</mark> r Insuf	ing O	nly	matic	€ %		l" Sy Ialoc	carb	on F	Fill	issib			Stee Halo				> = < =	Gre	eate ss T	r Th han	ial C			
Call Customer Service 203-378-82	81 for unlisted chemic	als								MET	AL	S							Р	LAS	TIC	s	EL,	AST	ОМЕ	RS
Size to Fit Monitor Corrodent	Common Names & Formulas	Corrodent Temp. °F MAX	Concentration % in H2O	403/410 SS [SE]	Carbon Steel [B]	304 SS [C]	316 SS [S], [SL]	Carp. 20 Cb 3 [D]	Phos. Bronze [A]	Brass [AA]	Monel [P OR M]	Nickel [N]	Inconel 600,718 [W],[WW]	Hastelloy B2 [G]	Hastelloy C276 [H]	Tantalum [U]	Titanium [TI] (<160 °F)	"R" Systems	PVC (-40/140°F) [V]	Kynar (PVDF) (180°F) [KY]	Halar (ECTFE) (250°F)	Teflon (TFE) (400 ℃) [T]	Neoprene (CR) (140°F)	Viton (FKM) (300°F) [Y]	Buna "N" (NBR) (150°F)	Kalrez 2037 (200°F) [K]
PROPANE	C ₃ H ₈	200	>99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Х	0	0	0
ROSIN		200	-	Х	Х	L	0	0	L	L	0	0	х	Х	0	Х		0	Χ	Х	Х	0	0	Х	0	0
SEA WATER (*Monel not for Diaphragms)	Ocean Water	200	-	Х	Х	х	Х	Х	Х	Х	o*	х	0	х	0	0	0	х	0	0	0	o	o	0	0	o
SEWAGE, RAW		100	-	Х	Х	L	L	L	L	L	L	Х	Х	Х	0	0	Х	Х	0	0	0	0	Х	0	0	0
SILVER NITRATE ◆* (Acid free)	AgNO ₃	200	<50	L	Х	L	L	0	Х	Х	Х	Х	Х	Х	Х	0	Х	Х	o	0	0	0	0	0	х	o
SKYDROL		200	100	Х	Х	0	o	0	х	Х	0	o	0	o	0	o	х	Х	Χ	Х	х	0	Х	Х	Х	0
SODIUM BICARBONATE	Baking Soda NaHCO ₃	<200	<20	0	L	o	o	0	L	L	o	o	0	L	L	Х	0	0	0	0	0	o	0	0	o	0
SODIUM BISULFATE	NaHSO₄	<200	<30	Х	Х	х	х	0	L	L	L	L	х	L	L	o	х	Х	0	0	0	0	0	0	Х	0
SODIUM BISULFITE	NaHSO ₃	<150	<40	Х	Х	х	Х	L	Х	Х	L	х	Х	L	L	0	0	Х	0	0	0	0	0	0	0	0
SODIUM CARBONATE	Soda Ash Na ₂ CO ₃	<200	<40	0	L	0	0	0	L	Х	0	0	0	0	0	0	0	Х	o	0	0	0	0	0	o	0
SODIUM CHLORIDE	Table Salt NaCl	<200	<30	Х	Х	Х	Х	Х	Х	Х	0	L	0	Х	0	0	0	Х	0	0	0	0	0	0	0	0
SODIUM CHROMATE	Na ₂ CrO ₄	<200	<60	0	0	0	o	0	0	0	0	0	0	0	0	o	o	0	0	0	х	0	0	Х	0	0
SODIUM CYANIDE	NaCN	<140	-	Х	0	0	0	0	Х	х	Х	х	Х	х	х	0	0	0	0	0	0	0	0	0	0	0
SODIUM DICHROMATE	S. Bichromate Na ₂ Cr ₂ O ₇	<140	<20	0	L	o	o	0	Х	Х	Х	Х	Х	Х	Х	Х	o	0	o	0	0	o	Х	0	Х	o
SODIUM HYDROXIDE	CAUSTIC SODA NaOH	<150	<40	Х	Х	Х	0	0	L	L	0	0	0	0	0	Х	0	0	0	Х	0	0	0	Х	0	0
SODIUM HYDROXIDE	CAUSTIC SODA NaOH	<200	<70	Х	Х	Х	Х	0	Х	Х	0	o	0	o	L	Х	Х	Х	Х	Х	Х	0	Х	Х	Х	0
Sodium Hypochlorite ● ** (* Kynar 15% max. conc.)	NaOCI	120	<40	Х	Х	Х	х	Х	Х	Х	Х	Х	Х	Х	Х	0	0	Х	0	o*	0	Х	Х	Х	х	0
SODIUM NITRATE	Chile Saltpeter NaNO ₃	<200	-	0	L	0	0	0	Х	X	Х	0	Х	Х	Х	0	0	0	0	0	0	0	Х	Х	Х	0

	O = OK For Indic	ated S	ervice)		R	= "F	l" Sy	/ste	m Po	ermi	issib	ole w	/ith	Stee	el Pi	ping		[]:	= As	cro	ft M	ater	ial C	ode		
LEGEND	L = OK for Lower						= H	lalo	carb	on F	Fill		G	oto	Halo	ocar	bon						r Tha	an				
Call Customer Camine 200 070 000	X = Unsuitable of		ficien	t Infor	matio	n				ME	-								_		Les AS	_	-		-1	ΛОТ	ОМЕ	DC.
Call Customer Service 203-378-828	81 for unlisted chemic	ais								WI-	ALR	3								121	ΑS	ШС	,S		-1-	ASI	OME	1.6
Size to Fit Monitor Corrodent	Common Names & Formulas	Corrodent Temp. °F MAX	Concentration % in H2O	403/410 SS [SE]	Carbon Steel [B]	304 SS [C]	316 SS [S], [SL]	Carp. 20 Cb 3 [D]	Phos. Bronze [A]	Brass [AA]	Monel [P OR M]	Nickel [N]	Inconel 600,718 [W],[WW]	Hastelloy B2 [G]	Hastelloy C276 [H]	Tantalum [U]	Titanium [TI] (<160°F)	"R" Systems	DVC (_40/140°E) [V]	[6] (10+1/0+-) 06	Kynar (PVDF) (180°F) [KY]	Halar (ECTFE) (250°F)	Teflon (TFE) (400 ºF) [T]		Neoprene (CR) (140°F)	Viton (FKM) (300°F) [Y]	Buna "N" (NBR) (150°F)	Kalrez 2037 (200°F) [K]
SODIUM NITRITE	NaNO ₂	<200	<60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	d)	0	0	0		Χ	0	0	Х
SODIUM PEROXIDE •	Na ₂ O ₂	<200	<10	0	L	0	0	o	Х	Х	L	L	L	L	L	Х	Х	0	L		0	0	0		Х	0	Х	0
SODIUM PHOSPHATE (TRIBASIC)	TSP Na₃PO₄	<200	<60	o	0	0	0	o	L	0	0	o	0	L	0	0	Х	o	>	(0	0	0		Х	o	Х	0
SODIUM SILICATE	Water Glass	<200	-	0	0	0	0	o	Х	х	0	0	0	Х	L	0	0	o	d)	0	0	0		0	0	0	0
SODIUM SULFATE	Na ₂ SO ₄	<200	<30	0	Х	o	0	o	L	L	L	L	L	L	L	o	o	o	d	,	0	0	0		0	0	0	o
SODIUM SULFIDE	Na₂S	<200	<30	х	Х	Х	L	0	Х	Х	L	L	L	Х	L	0	Х	Х	d)	0	0	0		0	Х	0	o
SODIUM SULFITE (*Viton<140°F)	Na ₂ SO ₃	<200	<30	Х	Х	L	0	0	Х	Х	Х	Х	Х	Х	0	0	0	Х	d)	0	0	0		0	o*	Х	o
SODIUM THIOSULFATE	Na ₂ S ₂ O ₃	<200	-	Х	х	L	0	0	х	Х	0	L	L	L	L	0	Х	Х	d)	0	0	0		Χ	0	х	0
SOUR GAS / OIL (See Warning Pg. 4 of Text)		<200	<5	Х	Х	Х	Х	Х	Х	Х	0	Х	Х	Х	0	o	Х	Х	>	(0	0	0		Х	х	Х	Х
STANNOUS CHLORIDE	Tin Dichloride SnCl ₂	<200	<50	Х	Х	Х	Х	L	Х	Х	Х	Х	Х	Х	Х	0	Х	Х	>	(0	Х	0		Х	0	0	0
STEAM (WITH SIPHON)		<300	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	>	(Х	0	0		Х	Х	Х	х
STEARIC ACID		<200	-	Х	Х	0	o	0	Х	Х	Х	o	L	Х	0	0	Х	х	d)	0	0	0		Х	Х	Х	o
STODDARD SOLVENT		<150	-	0	0	0	0	o	o	0	0	o	o	0	0	0		0	>	<	0	0	0		Х	0	0	0
SULFUR	s	250	>95	Х	Х	Х	Х	Х	Х	Х	Х	Х	0	L	0	0	0	Х	>	(Х	Х	0		Х	0	Х	0
SULFUR DIOXIDE, WET	SO ₂	140	-	Х	Х	Х	L	Х	Х	Х	Х	Х	Х	Х	L	0	0	Х	>	(L	0	0		Х	0	Х	0
SULFUR TRIOXIDE, DRY	SO ₃	140	>99	Х	Х	L	L	L	Х	Х	Х	L	L	Х	0	Х	Х	Х	d)	Х	Х	0		Х	0	Х	o
SULFURIC ACID <60% ● **	H₂SO₄	200	<60	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х		Х	0	Х	Х	>	(0	0	0		Х	Х	Х	o
SULFURIC ACID 80-98%	H ₂ SO ₄	200	<98	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	L	Х	0	Х	Х	>	(Х	0	0		Х	Х	Х	0

LEGEND	O = OK For Indic L = OK for Lowe X = Unsuitable o	r Hous	ing O	nly	rmatic	6%		R" Sy Ialoo				issik		vith					>	• =	Gre		r Th	ial C	ode		
Call Customer Service 203-378-828	81 for unlisted chemic	als								Ma	AL	S								Р	LAS	TIC	S	EL	AST	OME	RS
Size to Fit Monitor Corrodent	Common Names & Formulas	Corrodent Temp. °F MAX	Concentration % in H2O	403/410 SS [SE]	Carbon Steel [B]	304 SS [C]	316 SS [S], [SL]	Carp. 20 Cb 3 [D]	Phos. Bronze [A]	Brass [AA]	Monel [P OR M]	Nickel [N]	Inconel 600,718 [W],[WW]	Hastelloy B2 [G]	Hastelloy C276 [H]	Tantalum [U]	Titanium [TI] (<160 ℃)	"R" Systems		PVC (-40/140°F) [V]	Kynar (PVDF) (180°F) [KY]	Halar (ECTFE) (250°F)	Teflon (TFE) (400 °F) [T]	Neoprene (CR) (140°F)	Viton (FKM) (300°F) [Y]	Buna "N" (NBR) (150°F)	Kalrez 2037 (200°F) [K]
TANNIC ACID	Tannin	<150	-	Х	o	L	0	o	х	Х	0	Х	L	Х	Х	0	o	0		0	0	o	0	Χ	0	0	o
TARTARIC ACID		<150	<50	х	Х	х	0	х	Х	Х	0	Х	0	Х	Х	0	Х	Х		Х	0	0	0	0	0	0	0
TIN CHLORIDE (Stannous)	SnCl ₂	<200	<10	Х	Х	х	Х	0	Х	Х	Х	Х	Х	Х	Х	0	Х	Х		Х	0	Х	0	Х	0	0	0
TOLUENE (TOLUOL)		<200	>99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		Х	Χ	Х	0	Х	Х	Х	0
Trichloroacetic Acid		<200	<50	Х	х	х	х	х	х	х	L	х	х	L	0	Х	х	0		Х	Χ	Х	х	Х	Х	Х	0
Trichloroethane 1,1,1, Dry (*Teflon<200°F)		<150	>98	0	0	0	o	0	0	0	0	0	0	o	o	0		0		Х	Х	Х	o*	Х	Х	Х	0
Trichloroethyene, Dry		<200	>99	Х	0	0	0	o	х	х	0	o	L	o	0	0	0	0		х	0	х	0	Х	Х	Х	0
TURPENTINE		<200	>98	0	0	0	o	0	o	0	o	0	o	0	o	o		0		Х	0	0	0	Х	0	Х	0
UREA	Carbamide	<200	<50	Х	Х	0	o	Х	Х	Х	Х	Х	L	Х	Х	Х	0	Х		Х	0	o	0	Х	х	х	Х
VINYL CHLORIDE		<100	>99	Х	Х	х	0	0	Х	Х	0	Х	Х	Х	0	0	o	Х		Х	0	Х	0	Х	Х	Х	0