Chemical Resistance Chart

Chemical Resistance Data

These recommendations are based upon information from material suppliers and careful examination of available published information and are believed to be accurate. However, since the resistance of metals, plastics and elastomers can be affected by concentration, temperature, presence of other chemicals and other factors, this information should be considered as a general guide rather than an unqualified guarantee. Ultimately, the customer must determine the suitability of the pump used in various solutions.

All recommendations assume ambient temperatures unless otherwise noted.

RATINGS - CHEMICAL EFFECT

A: No effect - Excellent

- B: Minor effect Good
- C: Moderate effect Fair
- D: Severe effect Not Recommended

FOOTNOTES

- 1. P.V.C. Satisfactory to 72° F.
- **2.** Polypropylene Satisfactory to 72° F.
- 3. Polypropylene Satisfactory to 120° F.
- 4. Buna-N Satisfactory for "O" Rings
- 5. Polyacetal Satisfactory to 72° F.
 6. Ceramag Satisfactory to 72° F.

The ratings for these materials are based upon the chemical resistance only. Added consideration must be given to pump selections when the chemical is abrasive, viscous in nature, or has a Specific Gravity greater than 1.1

	302 Stainless Steel	304 Stainless Steel	316 Stainless Steel	440 Stainless Steel	Aluminum	TITANIUM	HASTELLOY C	Cast Bronze	Brass	Cast Iron	Carbon Steel	KYNAR	PVC (Type 1)	Tygon (E-3606)	Teflon	Noryl	Polyacetal	Nylon	Cycolac (ABS)	Polyethylene	POLYPROPYLENE	RYTON	CARBON	CERAMIC	CERAMAGNET "A"	VITON	BUNA N (NITRILE)	Silicon	Neoprene	Ethylene Propylene	Rubber (Natural)	Epoxy
Acetaldehyde ⁵	A	A	A	-	В	A	A	D	-	-	С	-	D	D	A	-	A	A	D	С	В	A	A	Α	-	D	В	В	D	В	С	A
Acetamide	-	В	A	-	-	-	-	-	-	-	С	-	-	-	-	-	В	-	-	-	-	•	-	A	-	A	A	-	Α	A	D	A
Acetate Solv. ²	A	B	A	В	В	1	1	A	C	B	A	1-1	B	D	A	-	-	A	-	В	D		A	A	-	D	D	-	D	-	-	A
Acetic Acid, Glacia ¹	-	B	A	A	B	A	A	С	С	D	A	-	С	B	A	С	D	D	D	B	B	A	A	A	-	D	D	B	С	В	C	8
Acetic Acid 20%	-	В	A	-	Γ-	A	A	-	С	-	-	A	В	-	A	A	-	D	-	-	Α	A	•	A	-	Α	С	-	С	-	-	В
Acetic Acid 80%	-	В	A	-	-	A	A	-	С	-	-	A	D	-	A	В	-	D	-	١	В	-	•	A	-	Α	С	-	D	-	-	В
Acetic Acid	-	B	A	B	В	A	A	C	C	D	С	B	A	B	A	A	D	D	С	B	A	A	A	A	-	С	С	-	С	B	С	A
Acetic Anhydride	B	A	A	B	B	A	A	C	D	B	D	D	D	D	A	D	D	D	D	A	A	A	A	A		D	A	С	B	B	С	A
Acetone ⁶	A	A	A	В	A	A	A	A	A	A	A	D	D	D	A	D	В	A	D	С	В	A	A	Α	A	D	D	В	С	Α	D	В
Acetyl Chloride	-	С	A	-	-	-	-	D	-	-	-	-	Τ-	- 1	A	-	-	-	-	-	-	A	-	-	-	Α	-	-	-	-	A	Α
Acetylene ²	A	A	A	A	A	В	•	В	-	A	A	-	B	-	-	-	A	A	-	1	D	A	A	A	-	A	A	C	B	A	С	A
Acrylonitrile	A	A	С	-	B	В	B	A	-	C	-	•	-		-	1	B	-	D	-	B	A	A	A	.	С	D	-	D	D	2.8	A.
Alcohols		Ι			Ι	Γ	Ι	Γ	Γ	Ι				Γ																		
Amyl	A	A	A	-	C	A	A	A	В	C	C	A	A	В	A	C	A	A	в	в	в	A	A	A	-	A	A	D	A	A	С	A
Benzyl	-	A	A	-	В	A	A	A	С	-	-	-	D	В	-	A	A	A	D	D	A	-	A	A	-	Α	D	-	В	В	D	A
Butyl	A	A	A	-	B	B	A	B	С	С	С	A	A	B	A	A	A	A	-	B	B	A	A	A	-	A	A	D	A	A	A	A
Diacetone ²	-	A	A	-	A	A	A	A	C	-	A	-	D	-	-	A	A	A	-	-	D	-	A	A	-	D	D	-"	D	A	D	A
Ethyl	-	A	Α	A	В	A	A	A	С	Α	A	-	Α	С	-	Α	В	A	В	В	A	-	A	Α	A	Α	A	В	A	В	A	A
Hexyl	-	A	A	-	A	A	A	A	С	-	A	-	-	-	-	A	A	A	•	-	A	•	A	A	-	A	A	D	В	A	A	A
Isobutyi		A	A	1 - A	B	A	A	A	С	-	A	-	-	-	-	A	A	A	B	•	A		A	A	-	A	С	В	A	A	A	A
isopropyi	1	A	A	-	B	A	A	A	C	С	A	-	-	-	•	A	A	A	-	•	A	-	A	A	-	A	С	С	B	A	A	A
Methyl ⁶	-	A	A	A	В	A	A	A	С	A	A	-	В	-	A	A	С	A	D	В	A	-	A	A	A	С	В	-	A	A	A	A
Octyl	-	A	A	-	A	A	A	A	С	-	A	-	-	-	-	A	A	A	-	-	-	•	A	A	-	A	В	-	В	A	C	A
Propyl	-	A	A	-	A	A	A	A	-	100	A	B	A	2	A	A	A	A		2	A	-	A	A		A	A	B	A	A	A	A

A-No effect-Excellent

B-Minor effect-Good

C-Moderate effect-Fair

D—Severe effect-Not Recommended

- 1. P.V.C.-Satisfactory to 72° F.
- 2. Polypropylene—Satisfactory to 72° F.

3. Polypropylene—Satisfactory to 120° F.

4. Buna-N—Satisfactory for "O" Rings

5. Polyacetal—Satisfactory to 72° F. 6. Ceramag—Satisfactory to 72° F.

	02 Stainless Steel	04 Stainless Steel	16 Stainless Steel	40 Stainless Steel	Numinum	TTANIUM	ASTELLOY C	Cast Bronze	3rass	Cast Iron	Carbon Steel	(YNAR	VC (Type 1)	-ygon (E-3606)	eflon	łoryl	olyacetal	lylon	Sycolac (ABS)	olyethylene	OLYPROPYLENE	NTON	CARBON	CERAMIC	CERAMAGNET "A"	ITON	3UNA N (NITRILE)	Silicon	Jeoprene	Ethylene Propylene (EPM)	Rubber (Natural)	-poxy
Aluminum Chlorido 200/	ر م ا	ص م	ص م		<u>م</u>				ш							~	Ē	2	\neg							~			2			
Aluminum Chloride				<u> </u>		$\hat{\mathbf{c}}$		6	_			~	$\hat{}$	~	~	$\hat{\mathbf{x}}$	•	$\frac{2}{n}$	-	-	^	,	$\frac{2}{3}$	$\hat{}$	_	$\hat{\mathbf{A}}$	Â			Ĥ		$\hat{}$
Aluminum Chioride		5		h		C C	6		-		D	A	$\hat{\mathbf{x}}$		~	~	•	n	6.2	-	<u>~</u>		$\hat{\mathbf{x}}$	Ê	- 31	$\hat{\mathbf{A}}$	Â	Ř		131		Â
Aluminum Hydrovide6	-					<u> </u>	P			7	~	S	<u>^</u>	± (3) K. 140	~		0	~	22.0		$\overline{\mathbf{A}}$	- 7- 4 - 36	~	•	•	2	3	ð			Ň	Ā
Alum Potassium Sulfate (Alum) 10%			12	~		285	D	A		4	~	5.24.2	<u>^</u>		~	~	8.	~	<u> </u>	•	~		^	~		~		20700	$\overline{\mathbf{A}}$			~
Alum Potassium Sulfate (Alum), 10%	<u> </u>	Ê	-	-		-			•	-	~	-	^	-	^	-	-	Ê	-	÷	-	_	-		-	,					Â	Â
Aluminum Sulfete	-					-			-	-	~	-	~		Ă	Â			4- 35	B		- 	~	$\hat{\mathbf{x}}$	-	~			$\hat{\mathbf{A}}$	-		$\hat{\mathbf{x}}$
Aruminum Surate	-			A	A	A	A		<u> </u>	4	A	A	A	D	A	A	2	A	-	<u> </u>	A		A	A		A	n					-
Amines	A	A	A	-	A	P	A	D	-	4	D			A	A	P	υ	A					A	A	-		<u> </u>	\vdash		D	-	A
	<u> -</u>	-		-	-	A	A	-	•	-	-	5	A	-	A	A	-	A	-	-	<u>A</u>	<u>A</u>	-	A	-	<u>A</u>			<u> </u>	-	-	-
Ammonia, Annydrous	A	В	A	A	В	В	A	U S	-	U	В	ע	A	В	A	A	ע	A	-	8	A •	В	C	A	-	0	В	В	<u>A</u>	Â		A
Ammonia, Liquids	-	A	A	A	D	-	В	D		A	A	-	A	B	A	A	D	•	-	U	A	관 관 - 사망	A	A	51	U	B	B	A	A		<u>A</u>
Ammonia, Nitrate		A	A	A	C			D	(- /	-	A	4	B	в		A	C		•	21	A	-	A	A	. . .,	.ξ ≕ «ξr	A	A 200 2.5	C	<u> </u>	((1 + 13)	A
Ammonium Bifluoride	-		A	-	D	-	В	-	-	-	-	-	A	-	-	Α	D	-	-	-	<u>A</u>	-	-	A	-	A _	<u>A</u>	-	A	-	-	<u>A</u>
Ammonium Carbonate	В	A	A	A	C	Α	B	В	-	С	В	-	Α	В	Α	Α	D	Α	•	-	A	• 	A	Α	•	В	D	C	<u>A</u>	A	-	<u>A</u>
Ammonium Casenite	-	-	A	•	-	-	6.4		*	4	-	3 - 49 20 - 19	10 M	10 N		A	Ð	(-) (: - 37		•	17 () - 3 ()	42		2 - 2 - 2 - 2 - 2		ř-1		A	17.6		A
Ammonium Chloride	C	A	C	A	С	D	A	D	С	D	D	A	A	В	A	A	B	A		В	A	A	A	A		A	A	C	A	A	A	A
Ammonium Hydroxide	A	A	A	A	С	Α	Α	D	D	Α-	C	-	Α	В	A	Α	D	Α	В	В	A	<u> </u>	A	A	-	В	B	В	<u>A</u>	A	C	Α
Ammonium Nitrate	A	A	A	A	B	A	A	D	D	A	D	-	A	В	A	A	С	D	-	В	A	A	Α	A	-	D	Α	С	A	Α	A	Α
Ammonium Oxalate		A	A	A		8	A			•	Α	-		-		-	В	-	-	-		-	A	1			A	1	A	-	-	A
Ammonium Persulfate	-	A	A	A	С	С	A	A		D	A	D	A	1	A	A	D	D			A	× 5	A	A	-	С	Α	-	A	A	A	A
Ammonium Phosphate, Dibasic	В	A	A	A	В	Α	A	С	-	-	D	-	Α	-	A	A	В	Α	-	В	A	-	A	Α	-	Α	Α	В	A	A	Α	Α
Ammonium Phosphate, Monobasic	-	A	A	A	В	Α	Α	D	-	-	Α	-	Α	Α	A	Α	В	Α	-	В	Α	-	Α	Α	-	Α	Α	В	Α	Α	Α	Α
Ammonium Phosphate, Tribasic	B	A	A	A	B	A	A	С	- 1	C	D	•	A	-	A	A	B	A	•	В	A	44	A	A		A	A	В	A	A	A	A
Ammonium Sulfate	C	D	B	A	B	A	A	8	С	C	C	A	A	D	A	A	В	D		В	A	A	A	A	1. 1.	D	A	В	A	A	A	A
Ammonium Thio-Sulfate	-	-	A	-	-	Α	-	-	-	D	Α	-	-	-	-	-	В	-	•	-	-	-	A	Α	-	-	Α	-	Α	-	-	Α
Amyl-Acetate	в	Α	A	С	В	Α	A	С	-	-	С	С	D	D	A	D	A	В	-	D	D	Α	A	Α	-	D	D	D	D	Α	D	Α
Amyl Alcohol	-	A	A		B	A	A	A	*	4	A	A	A	B	A	С	A	A	-	B	A	4 - %	A	A	10 - 14 20- 25	B	B	D	A	A	С	A
Amyl Chloride	-	С	В	-	D	1.	A	A			A	Α	D	С	A	D	A	C		D	D	4 (M) - 75 (M)	A	A	20	A	D	-	D	D	D	Α
Aniline	8	A	A	A	С	Α	В	С	-	-	С	С	D	D	A	D	D	С	D	С	В	A	A	Α	-	С	D	С	D	В	D	Α
Anti-Freeze	-	A	A	-	Α	-	A	В	В	В	С	-	Α	В	A	A	A	Α	В	в	A	A	A	A	A	Α	A	С	A	A	Α	Α
Antimony Trichloride	•	D	D	-	D	С	A					ŝ,	A	A	A		•	D	1	A	1			A	(小学) (1)	A	1	•	С		A	A
Aqua Regia	4					al SMA	1. A.		14 4					1							10 20 19 19	مان میں اندر میں		18 - 24 - 24 - 24	100 - 15 A	2 - 2	n der der der			A 2		
(80%, HCI, 20%, HNO)	-	D	D	2	D	A	D	D			-	С	D	D	A	D	D	D	-	D	С	4		D		С	D	C	D	D	D	D
Arochlor 1248	-	-	-	-	-	-	-	-	-	-	A	-	•	-	-	D	-	-	•	-	•	-	A	-	-	Α	D	-	D	В	D	Α
Aromatic Hydrocarbons	-	-	A	-	A	-	-	A	-	A	A	-	D	-	•	D	A	-	•	С	•	-	A	-	-	A	D	-	D	D	D	A
Arsenic Acid	B	A	A	-	D	-	-	D	B	D	D	A	A	В	A	A	D	A	•	B	A	1	A	A	1	A	A	-	A	•	С	A
Asphalt	-	В	A	-	C	-	-	A		С	-	-	A		_	-	A	A		-	A	A	-	A	A	A	в	C	в	D	D	A
Barium Carbonate	в	A	A	A	В	A	A	В	-	в	в	-	Α	Α	A	A	A	A	•	в	A	-	Α	A	A	A	A	-	A	- 1	A	Α
Barium Chloride	C	D	A	A	D	A	A	в	-	-	С	A	A	В	A	A	A	в	-	в	A	A	A	A	-	A	A	В	A	A	A	A
Barium Cyanide			A	-	-	-	-	C	-		A	-	•		-	-	B		-	B	•	4	A	-		A	С	-	A	A	-	A
Barium Hydroxide	B	c	A	A	D	8	B	B	1.99 - 7	C	C	A	A		A	A	D	A		B	A	A	A	A	A	A	A	С	A	A	A	A
Barium Nitrate	1-	A	A	-	Γ-	A	-	D	-	A	A	-	В	-	-	A	A	-	-	-	-	-	A	A	-	A	A		A	A	-	B
Barium Sulfate	в	A	A	A	D	A	A	С	-	С	С	A	A	-	A	A	A	A	-	в	A	A	A	в	-	A	A	D	A	A	-	В
Barium Sulfide	B	A	A		D	B		С	-	С	C		A	A	A	A	A	A	-	B	A	La sin	A	A	19 98. 57 4	A	A	C	A	A	A	A
Beer ²	A	A	A		A	A	A	A	B	D	D	A	A		A	A	B	D	B	B	D	-	A	A		A	D	C	A	A	A	A

	02 Stainless Steel	04 Stainless Steel	16 Stainless Steel	40 Stainless Steel	Numinum	'ITANIUM	ASTELLOY C	Cast Bronze	lrass	Cast Iron	Carbon Steel	YNAR	VC (Type 1)	'ygon (E-3606)	eflon	Joryl	olyacetal	lylon	Sycolac (ABS)	olyethylene	OLYPROPYLENE	RYTON	CARBON	CERAMIC	CERAMAGNET "A"	ITON	3UNA N (NITRILE)	silicon	Jeoprene	Ethylene Propylene (EPM)	Rubber (Natural)	Epoxy
	r L	m L	<u></u>	4	<	-	I					×		-	+	2		2					-		<u> </u>	-		<u></u>	<u>~</u>			
Beet Sugar Liquids	A	A	A	-	A	-	•	A	В	A	-		A _	•	A	A	в	A	B	-	A	-	A	A	-	A	읅		븕	^ +	읅	^
Benzaldehyde ³	A	A	A		B	A	A	A	-	В	A	C	D	ט	A	ט	A	C	D		ע	<u>A</u>	A A	A	-		片	B	片		片	A
Benzene	8	A	A	A	R	A	B	B	A	B	U U	В			A		A	A	<u>n</u>			A	A	A	A	<u>A</u>				쒸	片	A
Benzoic Acid ²	В	A	A	A	B	A	A	B		U	•	A	A	В	A	A	B		-	в		- 1	A				뵑	<u> 17 20</u>	2	<u>u</u>	4	A
Benzol	-	A	A	-	В	A	A	B	A	-	•	-		•	A		A	A	-	-	A	-	<u>A</u>	A	A	2	븱	긝	-	-	井	^
Borax (Sodium Borate)	-	A	A	A	C	В	A	A	В	A	U A	A	A	A	A	A	A	A	-	В	A	A	A _	A	A	A	P		<u>A</u>		<u>-</u>	$\frac{A}{A}$
Boric Acid	R	A	A	A	R	A	A	B	C		9-15. 8-35	A	A	B	A	A	A	A		В	A	•	A	A	A	<u>A</u>	A	-		4	<u> </u>	<u> </u>
Brewery Slop	-	-	A	-	-			A	•	A			6 C	- -	2		A	-	-	-	-	-	A	A	-	A	<u>A</u>		A -	<u>,</u>		
Bromine ² (Wet)						A	A		-	2	0	A		D	A				-			-		<u>^</u>	-	Â		버	片	<u>+</u>	러	$\frac{1}{2}$
Butadiene	A	A	A	-	A	-	-		A			A	A	-	A	-	A	Â	-	-	-		Â		2 43 4 104	Â	$\frac{2}{2}$	<u>-</u>		Â		$\frac{2}{3}$
Butane ²	A	A	A	-	A			A	A	L	<u> </u>	A	<u>A</u>	<u>د</u>	A		A	A	D	C	23.3	A	A	A		~	<u>^</u>	버	P	4	4	<u>^</u>
Butanoi	27 3	A	A	-	A		A	A	87 - 900 2		1.0		. 1 8. (A	-73		25. 33	-	1	R 3	7		3.	Q - 63	-	~			-		
Builter Builte			A	-	A	-	-	5	-	н Ч	-		-		-			-		-	-	-	^	~	-	<u>^</u>	^	-		<u>^</u>	H I	$\frac{2}{3}$
Bubbbee	Â	•					85 889		~		-	-	-	P	~	A 28 2	A	A	P	-	-	-	$\hat{\boldsymbol{\lambda}}$	$\hat{\boldsymbol{\lambda}}$	-	$\hat{\mathbf{x}}$	Ê	(<u>)</u>		<u>_</u>		$\frac{2}{3}$
Butul Acctate1	~		~	100 Å	A			~	~	A	~		D D	- n	~	n					n	~	~	A	10 10 10 10 10 10	2		2			<u> </u>	$\overline{\mathbf{A}}$
Butyria Acid1		0			P	8 T.(. A	~	$\hat{\mathbf{c}}$		n	×	~	0	U	~				n n	Ŭ		2									-	
Coloium Picultato				A		A	~		-	D D	-	A		-	A A	<u> </u>	-		-		<u>^</u>	_	-	-	-	~			허	-		^
Calcium Bisulfide			B	- . 38 1	6	•	-	с С				- 8 2	A	~	A A		n	A		B	-	16. 37°	Δ	Δ	35 BZ	Â	$\hat{\mathbf{A}}$	\exists	Ă		$\frac{1}{2}$	Â
Calcium Bisulfite	Ē	a a			C C	~		~		5		Δ	<u>A</u>		Â				9.48 8.48		$\overline{\mathbf{A}}$	8. s		Δ	58 Y.			51 A	Â	Ħ		
Calcium Carbonate	R	Δ	Δ	Δ		Δ	Δ	C C	- 22.1	n	874	r .	Δ	Δ	Δ	Δ	Δ	Δ		B	Δ	-	Δ		<u>28.8</u>				Δ	-	Δ	
Calcium Chlorate	-	R	Δ	Ê.	Ē	B	R	c	-	-	-	-	Δ	Δ	Δ	1		Δ	-	Δ	-	_	Δ	-			-	_	Ā		Ā	A
Calcium Chloride	C	Δ	n	C	C	Δ	Δ	B	- 3×	C	8	<u>م</u>	Â	Δ	À	Δ	D	Δ	в	B	Δ	Δ	Δ	A	R	A	Δ	B	$\frac{1}{\mathbf{D}}$	A		A
Calcium Hydroxide	B	4	Δ	-	C	4	A	B				101 E	A	A	A	A	В	A		В	A		A	A	A	A	A	$\overline{\mathbf{c}}$		A	A	À
Calcium Hypochlorite		D	c	С	C	Δ	в	D	-	D	an ài	Δ	D	•	Δ	Δ	D	D	-	В	Δ	-	A	A	-	A	B	č	D	A	c	A
Calcium Sulfate	в	A	A	A	в	A	в	в	_	_	-	A	<u> </u>	A	A	A	- A	- A	С	в	A	A	A	A	-	A	A	-	D	-	c	A
Calgon	-	A	A				8. 86. 9 - 10	С		D			4			A	в	날 3	13	-	A	-	A	A	878 8 - 8	A	A	14- 444 13 - 838	A	(4)1	33	A
Cane Juice ²	-	A	A	-	в	-	-	В	С	A			A	-		34 T	A	A	10 C		D	_	A	A	9- 61 61 - 41	64 et 15 bit	A		A	* 0 (# 19	A	A
Carbolic Acid (See Phenol)	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-
Carbon Bisulfide ²	В	A	A	A	A	-	-	С	•	в	-	-	D	D	-	-	A	A	-	-	D	-	A	A	A	A	D	-	D	D	D	A
Carbon Dioxide (wet)		A	A	•	С		A	С	С	С		-	-	1	A	-		-	6 34 6 88		-	- 1	A	A	64.03	12.2	12.8	20. II 11. I	-	1	1	
Carbon Disulfide ²	-	B	A	-	C	-		С	С	B	С	-	D	С	A	D	A	A		D	D	A	A	В	9	A	D	14.17	D	D	D	A
Carbon Monoxide	-	A	A	-	A	-	-	-	-	-	-	-	A	•	-	в	Α	Α	-	в	A	-	Α	A	-	Α	A	в	В	A	С	A
Carbon Tetrachloride ^{2 1}	в	В	В	A	С	A	A	С	Α	С	D	A	С	С	A	D	A	Α	D	D	D	С	A	A	A	A	С	С	D	-	D	С
Carbonated Water	B	A	A	A	A	-	-	B	1	D	-	14.2	A			A	A	A	20 (U) 10 - 20 -	1	A	15	A	A		A	A	4 - 21	A	A	-	A
Carbonic Acid	В	A	В	A	A	•	A	B	1	D		A	A	1	A	A	A	A		B	A	1	A	A	1	A	В	B	A	A	A	A
Catsup	-	A	A	A	D	-	-	С	1	D	-	-	A	1	-	A	В	Α	В	-	Α	-	A	A	-	Α	A	-	С	-	-	Α
Chloracetic Acid ²	D	D	D	D	С	A	Α	D	-	D	-	D	A	D	A	-	D	D	•	D	D	-	A	A	-	D	D	-	D	В	D	В
Chloric Acid	•	D	D	-					•		•	9 94 9 - 1	D	10 10 1 1	A		1	14		•		-					D	82 97	D	2 (S) 19 - 65	à-6	D
Chlorinated Glue	90% (18	A	A		D		•	C	10	D						С	-	C	D	24	88	-	1. 38 1. 38	A		A	С	84 X 17 88	D	В	D	A
Chlorine, Anhydrous Liquid	-	D	D	D	D	D	A	D	-	С	-	-	D	В	A	A	D	D	•	D	D	С	A	D	-	A	D	-	D	В	D	В
Chlorine (dry)	В	A	A	-	D	D	A	A	В	Α	-	-	-	-	A	-	-	-	-	-	-	С	A	A	-	D	-	-	D	-	D	D
Chlorine Water	D	•	D	-	D	A	B	D	D	D		A	A		A	C		D		1.89	D	C	C	A	63 70 20 10	A	D	С	D			80 87
Chlorobenzene (Mono)	A	A	A		B	-	A	B		B	С	A	D	D	A	D	A	A	D	D	D	A	A	A	10 A	A	D		D	D	D	A

	302 Stainless Steel	304 Stainless Steel	316 Stainless Steel	440 Stainless Steel	Aluminum	TITANIUM	HASTELLOY C	Cast Bronze	Brass	Cast Iron	Carbon Steel	KYNAR	PVC (Type 1)	Tygon (E-3606)	Teflon	Noryl	Polyacetal	Nylon	Cycolac (ABS)	Polyethylene	POLYPROPYLENE	RYTON	CARBON	CERAMIC	CERAMAGNET "A"	VITON	BUNA N (NITRILE)	Silicon	Neoprene	Ethylene Propylene (EPM)	Rubber (Natural)	Epoxy
Chloroform	A	A	A	A	D	A	Α	в	-	D	C	С	D	c	Α	D	A	С	D	D	D	С	A	A	A	A	D	D	D	D	D	A
Chlorosulfonic Acid ¹	D	D		D	D	Δ	B	D	-	-	D	D	С	c	A	D	D	D	-	D	D	D		С	-	D	D	D	D	D	D	c
Chlorox (Bleach)	105-0	A	A	-	C		A	A		D	C		A	B	A	A	D	D	в	-	D	С	A	A	23	A	С		B	B	D	A
Chocolate Syrun		A	A	-	A				-	D	-		-			A	A	A	_	-	A			A		A	A		A	-	D	A
Chromic Acid 5%	-	A	Α	B	C	Α	A	D	D	D	-	_	A	в	•	С	D	D	в	в	A	A	D	С	-	Α	D	С	D	A	в	B
Chromic Acid 10%	-	в	-	-	-	A	A	-	D	-	-	A	A	-	A	A		D	-	-	A	-	-	A	-	A	D	-	D		- 1	c
Chromic Acid 30%	-	B			1	Δ	Δ	12.1	n	8 <u>1</u> 4		B	Δ		Δ	D	a G	D	8 <u>5</u> -	28 R	Δ			A	- 20 A	A	D		D			D
Chromic Acid 50%	C	B	B	<u> </u>	C	Δ	4	D	D	D		C	B	B	Δ	D	D	D	С	С	B	в	D	A	1	A	D	1	D	A	D	c
Cider	-	Δ	Δ	Δ	B		-	Δ	-	D	-	-	Δ	-	-	Δ	B	-	-	B	- Tr	-	Α	Δ	-	Δ	Δ	-	A	-	-	A
Citric Acid	-	A	Δ		C	Δ	Δ	Ē	C	D	_	Δ	Δ	-	Δ	Δ	B	c	C	B	B	-	Δ	Δ	B	Δ	n	c	Δ	Δ	Δ	Δ
Citric Oile		5	~		C		Ê	B			5 20 C			NC R	Î	Δ	8		Ť	-	Δ	¥2.53		Δ		Δ	Δ	c	n	5 (B)		Δ
Celles	-	A	A	-				D		0	5 00				٨			•		95. 20 96. 80	~	<u>ei i</u> 12 è		Δ		Δ			Δ	<u>後期</u> 注刻	Δ	
Connex Chlorida	C C	n		D	n		A	D	1.001	0			•		<u> </u>	$\overline{\mathbf{A}}$				2		A 1	2	2		~	~		$\hat{\mathbf{A}}$	Δ		
Copper Chloride	F					A	A	5	-		-		A	-	<u>^</u>	$\hat{\mathbf{A}}$	0	~	_	B	2	-	_		-	Ê		_	$\hat{\mathbf{A}}$	2		귀
Copper Cyanide	-	Â		F.		~	A		-	0	-	A	A	-	~	^	D	Â	10.0	D A	<u>~</u>	^	$\hat{\mathbf{x}}$		- 11	Å	6		~	$\widehat{}$		$\tilde{}$
Copper Floborate				-			D	5	10 10 10	U			-		A	•	D	5	1.00	<u> </u>	•	<u>. 44</u> 9	<u>^</u>			A		_				
	D	A	A	D		A	A	5	r n	. [A	A	1. 14	A A	A	D	0		D	A	_	<u>A</u>	^	<u>(7</u> 1	A	A	~		-		~
Copper Sulfate (5% Solution)	-	A	A	A		A	A		D	U	-	-	A	-	A	A	D	0	-	D	A .	A	A	A	-	A D		C	A	-	\vdash	
	В	D	-		-	A	A		ע	-	- 901	A	A	-	<u>A</u>	A	-		-	-	Â	. 16	-	A	-				Â	<u> </u>	-	
Cream	-	A	A		A		-	5		U	-	-			•	A	A	A	-	1	A 0	-	A	A		A	A	-	0	-	-	<u>A</u>
Cresols ²	-	A	A	8	В		-	D	C	- 54			D	D			D		U	D	U	A	A	A	-	U		P	D	U		A
	в	A	A	-	C	A	в	C	-	-	-	в	в		A	-			-	C	,	-	A	A	-	A		-	5	2		<u>A</u>
Cyclohexane	-	A	-	-	A	A	-	A	-	-	A	-	- (2) (1)	ש	-	ט	A	-	-	•	ע	<u>A</u>	<u>A</u>	A	-	A	A	U	ע	D		Â
Cyanic Acid	-	A		-		-	200 S		-	-	-			7	276) (8.10)		D						-		9 - 7		C ·		D	•		A
Detergents		A	A	1.5	A	38		A	-	-	A		A	10	-	A	B	A	8	B	A	A	A	A	<u>, 7</u> 1	A	A	5.02	B	A		A
Dichlorethane	-	A	A	-	-	-	A	-	-	-	-		D	D	A	-	-	A	-	υ	-	-	-	-	-	в	-	-	2	-	片	A
Diesel Fuel	A	A	A	-	A	-	-	A	-	A	A	-	-	-	-	D	A	-	- 3 12	-	D	Α	A	A	-	A	A	- 	D	D		A
Diethylamine	A	A	-	•	A	•	-	A	-		1 - 8	-	D	-	A	B	D	10-00 10-00			C	-	A	A	-	D	В		В	B	C	A
Diethylene Gycol	-	A	•	-	-	-		A	1		-	-		-		A	A	A	В	В		100	A	A	17	A	A	C	A	A	A	A
Diphenyl Oxide	-	A	-		-	-	-	A	-	-	-	-	-	-	-	-	A	-	-	-	-	-	A	A	-	A	D	-	D	U		<u>A</u>
Dyes	-	A	A	-	B	-	-	C	-	-	-	-	-	-	-	A	Α	-	-	-	-	-	-	-	•	A	-	-	C	-	-	A
Epsom Salts (Magnesium Sulfate)	B	A	A	A	A	A	B	B		-	-		A		-	A	A	-			A		A	A		A	A	2 7.4 5 88	A	•		A
Ethane	A	A	-	-	A		-	A		01 14	-	12.	•			D	A	-	100	-	() () ()	15	A	A	92- 101	A	A	72	В	U	D	A
Ethanolamine	-	A	A	-	-		-	-	-	-		-	-	-	-	-	D	-	-	-		A	A	A	-		В	C	B	-	6	A
Ether ³	A	A	A	A	A	-	В	В	A	-	B	-	D	C	-	D	A	C	-	-	-	Α	<u>A</u>	A	A	C	D	-	D	C	D	A
Ethyl Acetate ²	31 - 31-	A	A	-	B	-	B	B	9 <u>0</u>		C	D	D	D	A	D	A	A	D	C	C	A	A	A		D	D	C	D	В	D	A
Ethyl Chloride	2	A	A	A	B	Α.	В	B	44	С	D	A	D	D	A	D	A	A	1.	D	D	A	A	A	. #8	A	D	D	C	A	A	A
Ethyl Sulfate	-	D	-		-	-	•	-	-	-	-	-	-	-	-	-	В	-	-	-	-	-	A	A	-	A	Α	-	-	-	-	A
Ethylene Chloride ²	-	A	A	-	C	B	B	Α	-	C		-	D	-	A	D	Α	-	D	-	D	Α	A	A	-	A	D	D	D	С	D	A
Ethylene Dichloride	-	A	A	-	D	A	B	C	-	-	C		D	D	A	D	A	A	3 6 0	D	A	A	C	A	-	A	D	D	D	C	D	A
Ethylene Glycol ⁴	-	A	A	5	A	-	A	B	B	B	C	A	A	B	A	A	A	A	8	B	A	A	A	A	A	A	A	C	A	A	A	A
Ethylene Oxide	-	-	A	-	A	-	-	A	-	-	-	-	D	<u> -</u> _	A	A	A	A	-	-	-	-	A	A	-	D	D	D	D	C		A
Fatty Acids	-	A	A	-	B	A	A	C	-	D	-	A	A	B	A	B	Α	A	-	B	A	-	A	A	-	A	C	C	8	С	C	A
Ferric Chloride	-	D	D	D	D	A	B	D	D	D		A	A	B	A	A	B	D		B	A	A	A	A	249, 2 . 000 - 2	A	D	C	B	A	A	A
Ferric Nitrate	•	A	A	A	D	A	A	D	1		-	A	A		A	A	B	D	-	B	A	A	A	A	-	A	A	D	A	A	A	A
Ferric Sulfate	<u> -</u>	A	C	A	D	A	A	D	D	D	<u> -</u>	A	A	В	A	A	В	A	С	-	A	Α	С	A	-	A	В	C	A	-		A
Ferrous Chloride	4	D	D	-	D	A	В	C	-	D	-	A	A	B	A	A	В	D	-	B	A	Α	A	A	-	A	B	C	A	-	A	

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	02	<u></u> 04	316	140	Alur	Ē	1AS	Cas	Bras	Cas	Carl	ξ	200	Ŋg	ef	Vor	^o ly	4410	200	^o ly	õ	₹7	AF	Ë	Ë	Ĩ	Ĩ.	Silic	Veo	£	۹n۶	bo
Ferrous Sulfate	B	A		-			В		-	D	D	Â	A	B	A		В	D	Ŭ	B	A	A	Ă	Ā	-	Â	в	-	A	Ū	A	A
Fluoboric Acid	-	D	В	-	-	D	A		-	D	-	A	A	В	A	в	В	C	-	В	A	-	A	D	-	A	в	-	A	-	-	A
Fluorine	D	D	D	-	D	D	A	D	-	D	D		С	4	С	-	-	D		С		-	D	4		-	-	-	-		4	D
Fluosilicic Acid	(4)	-	B	-	D	D	В	-	-	D		A	A	B	A	A	B	D		B	A	-	A	D	-	В	A	-	A	-1	-	С
Formaldehyde 40%	-	-	A	-	-	A	A	-	-	-	-	В	В	-	Α	Α	-	D	-	-	A	A	-	A		D	В	В	A	-	-	Α
Formaldehyde	A	A	A	-	A	A	в	A	В	D	A	-	A	В	A	D	A	Α	-	В	A	A	Α	A	-	D	С	В	D	B	С	A
Formic Acid ⁶	С	A	B	B	D	С	A	С	С	D	D	A	D	B	A	A	D	D		В	A	A	A	A	B	В	D	С	D	A	C	В
Freon 111	A		A	1	B		-	B	•	С	B	1.80	B	D	A	D	A	A	D	С		A	A	A	A	B	С	D	D	D	D	A
Freon 12 (wet) ²	-	-	D	-	В	-	-	В	ł	-	-	-	B	D	A	D	Α	Α	В	С	Α	Α	Α	Α	A	Α	Α	D	В	В	D	Α
Freon 22	-	-	A	-	В	-	-	В	-	-	-	-	D	D	-	В	Α	Α	-	• .	-	Α	A	A	Α	D	D	D	Α	Α	Α	Α
Freon 113	-	-	A	-1	В	-	-	B	-	-		-	С	D	-	-	A	A	-	-	-	A	A	A	A	С	A	D	A	-	D	A
Freon T.F. ⁴			A	•	B	-	•	B	•	-	-		B	D	•	D	A	A	-		D	A	A	A	A	B	A	D	A	D	D	A
Fruit Juice	A	A	A	A	В	-	-	B	•	D	D	-	Α	-	D	Α	В	Α	-	В	Α	-	Α	A	A	Α	A	-	A	-	-	Α
Fuel Oils	A	A	A	-	A	A	A	В	-	С	B	Α	Α	-	A	Α	Α	Α	-	D	В	Α	Α	A	-	Α	A	С	В	D	D	Α
Furan Resin	-	A	A	-	A	ŀ	-	A		A	A	-	•	-	A	-	A	-	-	a 9	-	A	-	A	-	A	D	- 1	D	-	D	A
Furfural ¹	A	A	A	-	A		B	A	-	-	A	D	D	48 10	A	D	B	A	D	D	D	A	A	A		D	D	D	D	B	D	Α
Gallic Acid	В	A	A	-	A	-	A	Α	-	D	D	-	Α	A	Α	-	-	Α	-	-	-	-	-	-	-	В	Α	-	-	-	-	-
Gasoline ^{1 4}	Α	A	A	A	A	D	A	Α	•	Α	Α	Α	С	-	Α	D	Α	Α	D	D	С	Α	A	Α	A	Α	Α	D	D	C	D	A
Gelatin	A	A	A	A	A	-	A	A	C	D	D	-	A		A	A	A	A	-	1	A		A	A		Α	A	-	A	<u>A</u>	<u>A</u>	A
Glucose	A		A	•	A		<u>, 78</u>	A	A	B	B	1	A	В	A	В	A	A	B	B	A	-	A	A	0	A	A	В	A	<u>A</u>	A	A
Glue P.V.A.1	B	B	A	-	B	A	-	A	-	-	A	-	A	B	A	-	A	A	-	-	-	-	<u>A</u>	A	-	A	A	-	A		-	A
Glycerine	A	A	A	A	A	A	A	A	R	в	R	A	A	В	A	A	A	Α	C	-	A •	-	A	A	-	A	A	в	A	\mathbf{A}	<u>A</u>	A
Cycolic Acid	-	-	-	4 3	-		A		•	-	-		1	A	-	A	0	•	-	В	A	A	A			A	A	-	A			A
Gold Monocyanide	-		A	-	-		-	A		D	376	-				-	A	-	-	2 1 D	-		A	A		A	A		A		-	A
Grass4	-			-		-		D	-		_	-	M	-	-	<u> </u>		-	•	D	-	-	<u>~</u>	~	-	<u>^</u>		-		-+	-	$\hat{\mathbf{A}}$
Hantanal	A						Δ	Δ	-		A	-	•	- 101	Δ	D	A	Δ	<u> </u>	n	- D	Δ	Â	A		<u>^</u>	Δ		B	n	0.0	Â
Heranel	Δ	•	Δ		Δ		A	B			B	Δ	0		4	0	Δ	Δ	n	5	C	Δ	Δ	4		Δ	Δ	B	R		n	
Honey	-	Δ	Δ	-	Δ	-	-	Δ		Δ	-	- -	Δ	-	<u> </u>	Δ	Δ	Δ	B	-	Δ	-	Δ	Δ	-	Δ	Δ	-	Δ		<u>-</u>	Δ
Hydraulic Oils (Petroleum) ¹	Δ	A	A	1_	A	-	-	B	-	A	A	-	•	-	A	-	A	A	-	-	D	-	A	A	-	A	A	-	в		허	A
Hydraulic Oils (Synthetic) ¹	44 C	A	A		A	-		A		A		1		2 1		2.8	A	A	-		D		A	A	1	A	С	D	2.0	5	_	A
Hydrazine	2 - 1	A	A	-	-	-	-	-	10	С	-	-	-	4	-	-	D	-					Α		-1	A	B	D	в	A	С	A
Hydrobromic Acid 20%	-	-	D	-	-	Α	A	-	-	-	-	A	A	<u>ia 68</u>	A	Α	-	D		-	Α	-	- 1	В	-	A	D	-	С		-	в
Hydrobromic Acid ⁴	D	D	D	D	D	A	A	D	-	D	D	A	A	B	A	С	D	D	-	В	В	-	A	A	•	A	D	D	D	A	A	A
Hydrochloric Acid (Dry gas)	D	С	A		D	-	A	-			D		A	•	A	-	-	13		12	-	4	A	-			•		-	A	4	A
Hydrochloric Acid (20%)4	46. S 47. S	D	D	D	D	С	в	D	-	D	-	A	A	B	A	A	D	D	B	A	A	D	A	A	D	A	С	-	C	A	С	A
Hydrochloric Acid (37%) ⁴	-	D	D	D	D	С	В	D	-	D	-	A	A	В	A	Α	D	D	С	A	A	D	A	С	D	A	С	С	С	c	D	A
Hydrochloric Acid 100%	-	D	D	-	D	D	С	D	-	D	-	-	A	A	A	-	-	D	-	A	-	-	A	С	-	С	D		С	-	A	Α
Hydrocyanic Acid	A	A	A	С	A	A	A	D	D	-	С	-	A	B	A	A	B	A	2	B	A	-	A	A		A	С	S- 1	B	-	A	A
Hydrocyanic Acid (Gas 10%)	-	D	D	-	-	-	-	4	•	-	-		A		A	-	12	-				-	Ŀ,		-	-		-1	С	A	С	A
Hydrofluoric Acid (20%) ¹	-	D	D	D	D	D	В	D	-	D	-	-	D	B	A	A	D	D	-	С	A	С	В	С	D	A	D	-	С	A	С	В
Hydrofluoric Acid (75%) ^{1 2}	-	С	D	-	D	D	С	D	-	D	-	A	С	В	A	D	D	D	-	С	Ŗ	С	D	D	D	A	D	D	D	С	С	С
Hydrofluoric Acid 100%	D	D	D	-	D	D	B	D	•	D	D	-	С	D	A	•	-	-	•	D	5	С	D	D	1 1 1 1		D	-	D	-	D	A
Hydrofluosilicic Acid (20%)	-	D	D	•	D	D	B	A	-	D		9	D	1	A	В	D	D	-	•	A	-	A	D	-3	A	B		В	A	A	С
Hydrofluosilicic Acid	-	D	D	-	C	-	C	D	-	-	-	-	-	С	A	-	-	-	-	-	4	-	A	-	-	-	-	D	A	- [-	i -

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	Ste	Ste	Ste	Ste			C							(9					6		Ξ				Ē		III.			oyle	iral)	
	ess	ess	ess	ess	_	~	ð	ze			eel		e 1)	360			_		β	ene	Ϋ́				Z S		I.I.			² rol	latu	
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	302	304	316	440	Alu	E	HA	Cas	Bra	Cas	Car	ž	Ž	T _y g	Tef	Nor	Po	Ž	õ	Pol	PO	RY.	CA	Ш	G	VIT	BUI	Silic	Neo	Eth	But	Бр
Hydrogen Gas	A	A	A	- 1	A	-	-	A	-	В	в	A	A	-	A	-	-	-	-	-	-	-	-	-	-	A	-	•	-	-	-	A
Hydrogen Peroxide 10%	-	С	c	-	A	С	A	D	D	D	-	-	A	A	A	-	-	D	-	A	-	B	A	A	-	-	A	-	D	-	С	D
Hydrogen Peroxide 30%	-	10	B	12.9	-	B	A	-	D	¢.,		4	A	-	A	1		D	-	-	A	С	-	-	-	A	D	0	С			B
Hydrogen Peroxide	-	A	B	A	A	B	A	D	D	D	D	C	A	C	A	В	D	D	1	B	A	С	•	A	A	A	D	С	D	С	С	A
Hydrogen Sulfide, Aqueous Solution	-	D	A	С	С	A	A	D	С	D	-	A	Α	В	A	A	D	D	-	В	A	A	A	A	Α	D	С	-	В	A	D	A
Hydrogen Sulfide (dry)	A	С	A	-	D	-	A	D	С	В	В	-	A	-	A	-	-	D	-	-	-	A	-	A	-	D	-	-	-	•	A	A
Hydroxyacetic Acid (70%)	-	-	-		D	B	-	-	-	-	3 . 6	-	A	-	39	-	D	-			-	4	A	A	-	A	A		A	A	-	A
ink	A	A	A	-	C	-	-	С	-	D	D	-	• 2		-	B	A	A	-	B	-	-	A	A	A	A	A	•	A	-	-	A
lodine	-	D	D	D	D	A	В	D	-	D	-	-	D	в	A	Α	С	D	D	D	D	-	D	A	-	Α	в	-	D	В	D	Α
lodine (In Alcohol)	-	-	В	-	-	D	A	-	-	-	-	-	D	-	A	С	-	D	•	-	B	-	-	A	•	A	D	-	D	- 1	-	-
lodoform	B	C	A		A		- -	C	1	C	B	-	68 19 - 19	-	A		-	A		-4	-	24	-			A	-		14			-
Isotane ²	-	-		-	A	-	4		-*-	-	-	-	-		2	D	A	-	-	-	D		-	A	-2	A	A		-		D	A
Isopropyl Acetate	-	-	В	-	С	-	-	-	-	-	-	-	-	-	-	-	A	-	-	-	-	-	A	A	-	D	D	-	D	В	D	A
Isopropyl Ether ²	A	1-	A	-	A	-	-	A	-	-	A	1-	-	-	A	D	A	-	-	-	D	-	A	A		D	в	-	D	D	D	-
Jet Fuel (JP#, JP4, JP5)	A	A	A	1	A		Q.,	A	÷.	A	A	A	A	1	A	D	A	A	2		D	A	A	A	2	A	A	D	D	D	D	A
Kerosene ²	A	A	A	A	A	A	A	A	A	A	B	A	A	D	A	D	A	A	B	D	D	A	A	A	A	A	A	D	D	A	D	A
Ketones	A	A	A	-	в	A	A	Α	-	A	A	D	D	D	A	D	в	A	-	D	D	A	С	Α	-	D	D	-	D	D	С	C
Lacquers	A	A	A	-	A	-		A	С	С	С	1-	-	D	-	С	A	A	-	-	A	-	A	A	-	D	D	-	D		D	A
Lacquer Thinners	-	-	A	1	-	A	A		С	-	4	-	С	-	A	D	-	A	-	-	B	4	-	A	-		D		D	A	-	
Lactic Acid	A	A	в	C	С	A	A	D	-	D	D	C	A	B	A	A	8	С		8	A	A	A	A		В	B		A	B	A	A
Lard	В	A	A	A	A	-	-	A	-	A	С	-	Α	-	-	-	A	A	С	100.02	A	-	A	A	-	A	Α	С	В	-	D	A
Latex	-	A	A	-	A	-	-	A	-	-	-	-	-	-	-	A	A	A	-	в	-	-	-	A	-	A	A	-	С	A	-	A
Lead Acetate	B	A	A		D	A	A	С	100	-3-	D	-	A	В	A	A	A	A	23	B	A	2	A	A	6	D	В		D	A	A	A
Lead Sulfamate	-	-	199 ms	-	12		1	-		-	-	-		-			A	-	-	-	A	20				A	B	С	A	D	С	A
Ligroin ³	-	-	A	-	-	-	-	A	-	-	-	-	-	-	-	D	A	-	-	-	D	-	-	A	-	A	A	-	В	A	D	A
Lime	-	A	A	-	С	A	-	A	-	A	-	1-	A	† - 1	-	A	D	-	С		-	-	A	A	-	A	A	С	В	D	- 1	A
Lubricants	-	A	A	23	A	A	A	B	-	14 J	-	N. C.	A	2	A		A	A	B	-	A	A	A	A	- 2	A	A	С	D	-	D	A
Magnesium Carbonate	-	A	A	A	-	-	B	-	-		1	-	A	-	-	A	A	-	-	B	A	-		A		-	A		A	A	-	A
Magnesium Chloride	в	В	B	A	D	A	A	в	С	D	С	-	A	В	A	A	A	A	-	В	A	A	-	A	-	A	A	•	A	A	A	A
Magnesium Hydroxide	A	A	A	-	D	A	A	С	в	В	В	A	A	-	A	Α	A	A		B	A	A	A	A	-	A	в	-	В	-	С	A
Magnesium Nitrate	×_ *	A	A	A	-	A	A	-	-			-	A	-	A	A	A	A		B	A	-	•	A	•	A	A	•	A	-	-	A
Magnesium Oxide		A	A		-	10 A	-	-		-	-	11. 11. 1.			-		A	-	2.00 4.00	-	2		•	A		-	A		A	A	-	A
Magnesium Sulfate	В	В	A	-	в	A	В	В	в	С	В	-	A	В	A	Α	A	A	-	В	A	A	A	A	-	A	A	-	Α	D	С	A
Maleic Acid	С	A	A	A	в	A	A	С	-	-	В	-	A	В	A	A	С	A	-	-	C	-	A	A	-	A	D		A	D	D	A
Maleic Anhydride	1 A.	-	2	-	-		A	-	12.0	•		-			-		C	-	-		-	1	A	A	- -	A	D	٢	D		D	A
Malic Acid	B	A	A	-	С	4	A	D	-		D	-	A	-	A	1	-	A	-	-	-		-	A	- 2	B	-	-	A		A	-
Mash	- 1	A	A	-	- 1	-	-	A	-	-	-	-	-	-	-	A	A	-	-	-	-	-	A	A	-	-	A	-	A	-	-	A
Mayonnaise	A	A	A	-	D	-	-	D	-	D	D	-	-	-	A	A	A	A	В	-	A	-	A	A		A	A	-	-	-	-	A
Melamine		D	D	-	Ξ,		•	D			-	-		-	-	-	D		÷.	-	-	•	A	A	-	-	С	4	-		4	A
Mercuric Chloride (Dilute Solution)	D	D	D	D	D	A	B	D	D	D	D		A	A	A	A	A	A	-	B	A		A	A		A	A	•	A	A	A	A
Mercuric Cyanide	A	A	A	-	D	A	-	D	-	-	D	-	A	-	A	A	A	-	-	B	A	-	A	A	-	-	A	-	-	-	-	A
Mercury	A	A	A	A	С	С	A	D	D	A	A	-	A	-	A	A	A	A	-	В	A	-	A	A	-	A	A	-	A	A	A	A
Methanol (See Alcohol Methyl)	4		-			-					4	-	-	L		4	-		-	-	ě.,		1			-5	1	•		-	-	+15
Methyl Acetate	A	-	A	-	A		A	A			8	-	-	-	A	-	A		D	-			A	A		D	D	D	B	B	D	•
Methyl Acrylate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 1	-	A	-	-	-	-	-	A	A	-	D	D	-	В	В	D	A

1. P.V.C.—Satisfactory to 72° F. 2. Polypropylene—Satisfactory to 72° F. 3. Polypropylene—Satisfactory to 120° F. 4. Buna-N—Satisfactory for "O" Rings 5. Polyacetal—Satisfactory to 72° F. 6. Ceramag—Satisfactory to 72° F.

Σ

	Steel	Steel	Steel	Steel			υ							6)					(0		LENE				ET "A"		(BILE)			oylene (EPM)	ral)	
	302 Stainless	304 Stainless	316 Stainless	440 Stainless	Aluminum	TITANIUM	HASTELLOY	Cast Bronze	Brass	Cast Iron	Carbon Steel	KYNAR	PVC (Type 1)	Tygon (E-360	Teflon	Noryl	Polyacetal	Nylon	Cycolac (ABS	Polyethylene	POLYPROPY	RYTON	CARBON	CERAMIC	CERAMAGN	VITON	BUNA N (NIT	Silicon	Neoprene	Ethylene Prol	Bubber (Natu	Epoxy
Methyl Acetone	A	-	A	-	A	-	-	A	ŀ	A	A	-	-	-	A	D	A	-	-	-	-	-	-	Α	-	D	D	-	D	-	-	С
Methyl Alcohol 10%	A	-	A	-	С	-	Α	С	-	<u> -</u>	В	<u> </u>	A	-	A	-	-	A	-	-	-	-	-	-	-	-	В	-	-	-	A	A
Methyl Bromide	-		-	+	2	-	-	-	-	-	-	-		-	-	-	A	-		D	-	•	A	A		A	B	-	D	D	D	B
Methyl Butyl Ketone	-	-	A	-	A	-	-	-	-			-	-	-	-	D	B	100	-	1	-		A	A		D	D	С	D	A	D	B
Methyl Cellosolve	-	-	-	-	A	-	-	A	-	-	-	-	-	-	-	С	В	-	-	-	Α	-	Α	Α	•	D	D	-	D	В	D	С
Methyl Chloride	-	A	A	-	D	A	A	A	-	-	-	A	D	-	A	D	A	A	-	D	D	-	A	Α	-	Α	D	D	D	С	D	A
Methyl Dichloride	-	-	3		-	-	•	-	-	-	-	-		-	-	D	A	•		-	-	- 1	A	A	-	A	D	-	D	D	D	A
Methyl Ethyl Ketone	-	A	A		A	A	A	A			-3	D	D	-	A	D	8	A	D	D	A	A	A	A	-	D	D	С	D	A	D	B
Methyl Isobutyl Ketone ²	-	-	A	-	-	A	Α	-	-	-	-	D	D	-	A	D	В	Α	D	-	С	A	Α	Α	-	D	D	С	D	С	D	В
Methyl Isopropyl Ketone	-	-	A	-	-	-	-	-	-	-	-	-	-	-	-	D	В	Α	-	•	-	-	Α	A	-	D	D	В	D	В	D	в
Methyl Methacrylate	-	-	-	1		1.2% 1.2%	•	-			-	-			-	-	A	-	-		1. 1. 1.		A	A		D	D		D	D	D	A
Methylamine	A	-	A	-	A	-	-	D	5	B	B		-	48	-	B	D	-	-	-	- 25 j	-	A	A	-	4	B	-		-	•	A
Methylene Chloride	A	A	A	-	A	A	A	A	С	-	В	D	D	-	A	D	A	D	-	D	D	-	Α	Α	-	D	D	-	D	D	D	Α
Milk	A	A	A	A	A	-		С	С	D	D	-	A	-	-	A	A	A	В	В	Α	-	A	Α	A	A	A	В	A	A	A	Α
Molasses	A	A	A	A	A	-	and a second	A	B	A	A		A		-	B	A	A	-	B	A	2	A	A	A	A	A		A	1	ار بالا م	A
Mustard	A	A	A	A	B	-	-	B	÷.,	C	B	-	A	-	-	B	B	A	B		A	-	A	A		A	B	С	C		-	A
Naptha	A	A	A	A	A	A	A	в	-	в	B	A	A	С	A	D	A	A	С	D	Α	Α	A	Α	-	A	в	D	D	D	D	Α
Napthalene	В	A	В	-	В	A	A	С	-	в	A	A	D	-	A	D	A	-	-	D	В	A	Α	A	-	В	D	-	D	D	D	A
Nickel Chloride	-	A	B		D	A	A	D	-	D	-	A	A	B	A	A	B	A	1	B	A	-	A	A	-5	A	A	-	A	A	A	A
Nickel Sulfate	B	A	В	-	D	A	B	C	C	D	D	A	A	A	A	A	B	A	1. A.	B	A	•	A	A	-	A	A	-	A	A	C	A
Nitric Acid (10% Solution)	A	A	A	A	D	A	A	D	-	D	D	A	A	В	A	A	D	D	С	В	A	D	С	в	D	A	D	-	D	в	D	A
Nitric Acid (20% Solution)	-	A	A	A	D	A	A	D	-	D	-	в	A	B	A	A	D	D	D	В	A	С	D	С	D	A	D	-	D	D	D	в
Nitric Acid (50% Solution)	-	A	A	A	D	A	A	D		D		B	A	B	A	A	D	D	D	C	D	С	D	A	300 ° •	A	D		D	D	D	D
Nitric Acid (Concentrated Solution)	-	D	B	A	B	A	B	D	D	D	-	- 10	D	c	A	D	D	D	D	D	D	С	D	A	с	8	D		D	D	D	D
Nitrobenzene ²	В	A	В	-	С	A	в	D	-	В	В	D	D	D	A	D	в	С	D	D	С	В	Α	A	-	D	D	D	D	D	D	В
Oils										Γ	Γ																					
Aniline	-	A	A	-		A	D	A	-	A	-	-	D	-	A	D	D	C	D	-	Α	-	A	Α	-	A	D	<u> -</u>	D	B	D	A
Anise	-	A	A	-	-	•	-	-		-	-	-	•	-	-	-	A	-	-	-	4	-	A	A	•	6	-	-	D	-	-	A
Bay	-	A	A	•	-	-	3	2	-	-	-	-	-	-	-		A	-	-3	•		-	A	A	•	A	-	-	D	-	20	A
Bone	ŀ	A	A	-	-	-	-	A	-	-	-	-	-	-	-	-	A	-	-	-	-	-	A	Α	-	A	A	<u> -</u>	D		<u> -</u> _	A
Castor	-	A	A	-	A	-	-	A	-	A	-	-	A	-	-	-	A	-	-	-	-	-	Α	Α	Α	A	A	-	A	В	A	A
Cinnamon	1	A	A	-	-	- 11		2		-	-			-	A	-	A	-	-		A		A	A		D	•	-	D	-		A
Citric	- 8	A	A			-	-	D	-	D.	-	-	-	-	-	-	A	A	-	-	A	-	A	A	•	A	A	- 1	D	-	<u>+</u>	A
Clove	-	A	A	-	-	-	-	-	-	-	-	-	-	<u> -</u>	-	-	A	A	-	-	В	-	Α	Α	-	<u> -</u>	A	<u> -</u>	-	<u> -</u>	<u> -</u>	Α
Coconut	-	A	A	-	В	-	-	A	-	A	-	-	-	-	-	-	A	A	-	-	Α	-	A	Α	-	A	A	<u> -</u>	A	A	D	A
Cod Liver	-	A	A	-	B	-	-	-	-	-	-	-	•	-	-	-	A	A	C	-	A	-	A	A	-	A	A	-	B	A	D	A
Corn	-	A	A	A	B	-	•	B	-	A	-	-	-	-	5	-	A	A	C	-	A	-	A	A	-	A	A	-	D	C	D	A
Cotton Seed	В	A	A	A	В	-	•	B	-	A	C	-	A	-	A	-	A	A	C	-	A	A	A	A	-	A	A	<u> -</u>	D	C	D	A
Cresote ²	-	A	A	-	A	-	-	-	-	 -	-	-	-	-	-	-	D	-	-	-	D	-	Α	A	-	A	A	-	B	D	D	A
Diesel Fuel (2D, 3D, 4D, 5D)	-	A	A	-	A	-	-	A	Ŀ	-	-	-	-		•	D	A	A	-4	-	A	A	A	A		A	A	-	D	D	D	A
Fuel (1, 2, 3, 5A, 5B, 6)	-	A	A	-	A	A	A	A		-	12	-	A	-	A	D	A	-	-		B	-	A	A	-	A	B	-	D	D	D	A

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	Jes	Je	les	Jes	ε	N	2	nz(-	Ste		be	т Б			a		₹	len	D.		z	U	A G		z		e	P L	Na	
	tair	tair	tair	tair	inu	Ĩ	Ш	Bro		2	Б	æ	È	n E	E		cet	~	lac	ťħ	μų	Z	õ	N	Ň	z	Z	Ę	ren	ene	er (>
	0 0	4 S	6 S	0 S	Ш	TAI	AST	ast	ass	st	rbé	Ž	õ	go	flo	^b ry	lya	/lor	00	lye	Ľ	Ĕ	AR	R.	R.	5	Ž	100	doé	Ť	qq	Ň
Oils (Cont.)	ရု	8	31	44	¥	F	Ŧ	ő	Б	ő	Ö	2	ď	ŕ	Ē	ž	٩ 2	ź	δ	Ч	a	8	ວ	Ö	Ö	Σ	m	ŝ	ž	ш	щ	ш
Ginger	-	A	Α	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-	- [-	-	A	A	-	A	A	-	Α	-	-	Α
Hydraulic (See Hydraulic)	-	Γ							-		-	-																-	\square	-		
Lemon	-	A	A	-	-	-		-		-	÷	5		-		-	A	-	-	-	D	-	A	A	-	A	-		D		-	A
Linseed	-	A	A	A	A	-	-	A	-	A	-	÷	A	В		-	A	A	С	-	A	-	A	A	A	A	A	2	D	D	D	A
Mineral	A	A	A	A	A	-	-	A	-	Α	В	-	A	-	-	В	A	A	-	-	B	A	A	A	A	A	A	-	В	D	D	A
Olive	A	A	A	-	A	-	-	в	-	Α	в	-	A	-	A	-	A	A	-	-	A	-	A	A	-	A	A	С	В	-	D	Α
Orange		A	A		-		-	-	4 A	128	-		-		A		A	A			A	-	A	A	-	A	A		D			A
Palm	-	A	A	-	A	-	-	B				-	A	-	-	-	A	A	-	-	-	_	A	A	-	A	A		D	-1	-	A
Peanut ³	-	A	A	-	A	-		Α	-	A	-	-	A	-	-	-	Α	-	-	-	D	-	A	A	- 1	A	A	-	D	-	D	A
Peppermint ²	-	A	A	-	-	-	-	A	-	-	-	-	-	-	-	-	A	- †	-	-	D	- 1	A	A	-	A	D	-	D	-	-	Α
Pine	A	A	A	5	A	1		D	* *	C	B		A		A		Δ	2	_	-	-	_	A	Δ		4	4		D		D	Δ
Rape Seed		Δ	4					4					Δ				4						4	4		Δ	B					4
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Shicone		A	A	-	-			A		A		-		-		A	A	A	-		<u>A</u>			A	A	A	A	-	A		A	A
Soybean		A	A	4 - 21	A			B	1.76	A	6 22	98 . 98	A	-	-	-	A	A	-		A		A	A	<u>.</u>	A	A	15	P P	-	U	A
Sperm	-	A	A	-	-	-	-	Α	-	-	-	-	A	-	-	-	A	•	-	-	-	-	A	A	-	A	A	F	D		-	A
Tanning	-	A	A	-	-	- -	-	-	-	-	-	-	-	-	-	-	A	-	-	-	-	-	A	A	-	Α	A	-	D	-	-	A
Turbine	-	A	A	-	A	•	-	A	-	A	-		A	•	-	-	A	-	C	-	-	-	A	A	-	A	A	-	D	-	D	A
Oleic Acid	B	A	A	8	B	•	B	B	С	С	С	-	A	С	A	C	B	A	B	D	C	-	A	A	2	Q	B	D	D	D	D	A
Oleum 25%	-	-	-	-	-	-	Α	-	-	-	-	В	D	-	A	D	-	-	-	-	-	-	-	A	-	A	D	D	D	D	-	D
Oleum	В	-	Α	-	В	-	-	С	С	-	В	D	D	-	Α	-	D	-	-	-	D	-	-	A	-	Α	С	D	D	D	D	Α
Oxalic Acid (cold)	С	A	B	A	C	С	B	B	С	D	D	-	A	B	A	С	C	D	-	A	A	-	A	A	-	A	В	С	В	A	C	A
Paraffin	A	A	A	A	A	-	-	A	-	В	B	A	A	-	A	B	A	A	B	-	A	-	A	A	-	A	A	-	-	-	-	A
Pentane	A	C	С	-	A	-	В	A	-	В	В	-	-	-	Α	D	A	A	D	-	-	-	A	Α	-	Α	Α	-	В	D	D	Α
Perchloroethylene ²	В	A	A	-	Α	-	-	С	•=2	В	В	Α	-	-	Α	D	A	-	D	-	D	A	A	A	-	Α	С	D	D	D	D	Α
Petrolatum	A		A	-	B	•		B	T.	С	С		1		A	D	A	A	B	-	-	-	A	A	1. 1.	A	A	-	B	A	D	A
Phenol 10%	B	A	A	-	A	4	B	С	-	B	D	1	A	С	A	-	-	D	-	-	-	A	-	-	-	В	D		С	D	С	С
Phenol (Carbolic Acid)	в	Α	A	A	в	С	Α	В	D	D	D	A	Α	С	Α	С	D	D	-	D	B	A	A	D	A	A	D	-	D	D	D	В
Phosphoric Acid (to 40% Solution)	-	в	A	A	D	A	Α	D	D	D	-	-	Α	В	A	A	D	D	c	в	A	A	B	C	D	A	D	-	D	B	c	Α
Phosphoric Acid (40%-100% Solution)	4	C	B	B	D	B	A	D	D	D		•	A	B.	A	A	D	D	D	С	A	A	B	D	D	A	D	-	D	B	С	C
Phosphoric Acid (Crude)	-	D	C	С	D	С	A	D	D	D	D	A		-	A	-	D	D	D	c	-27	A	С	D	-	A	D	-4	D	B	-	A
Phosphoric Anhydride (Dry or Moist)	-	A	A	-	-	-	-	-	D	-	-	-	D	D	Α	-	-	-	-	-	-	-	A	-	-	D	D	-	D	-	A	-
Phosphoric Anyhdride (Molten)	-	A	A	-	D	-	-	D	D	-	-	-	D	-	A	-	-	A	-	D	-	-	-	-	-	D	С	-	D	-	D	A
Photographic (Developer)	1	С	A	С	С	A	A			D	100	-	A		-	A	C			B	A	- 1	A	A	-	A	A	-	A	5.8	-	A
Phthalic Anhydride	B	A	B	-	B	-	A	B		С	C	-		- 	A	4	-	A	-	-	- 1.	-		-	-	A	С			-	-	-
Picric Acid	в	A		-	c	-	A	D	D	D	D	-	A	Α	A	-	-	A	-	Δ	-	-	-	-	-	Δ	Δ	D	Δ	-	A	Δ
Plating Solutions	-	<u> </u>	<u> </u>		Ŭ		-	-	-	-	-	-	-		-			-+	-	-		-	-+			Ĥ		-	Ĥ		-	Ĥ
Antimony Plating 130°	_				_																		_								_	B
Areonic Plating 110° E	-	-		-	-		~	-		-			<u>^</u>	-	<u>^</u>		-					-			-			D		-	0.30.0	D
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Brass Plating	8 4 4			194 - 19 19 - 19	1.42.0									4 7 10 10	19 - 19 20 - 20		ere k		1 5-1	5			-	~								
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rign Speed Brass Bath 110° F	•		A	-	-	A	A	-	-	•	Ŀ	-	A	-	A	A	-	A	-	-+	A	-	-	U	-	A	A	Ч	A		-	В
Bronze Plating																																
Copper-Cadmium Bronze Bath R.T.	-	-	A	•	-	A	Α	-	-	-	-	-	A	-	A	A	-	A	-	-	A	-	-	C	-	A	A	D	A		-	В
Copper-Tin Bronze Bath 160° F	•	-	A	-	-	A	A		-	-	-	-	D	-	A	A	•	A	-	•	A	-	-	D	-	A	A	D	B	- [-	С

P.V.C.—Satisfactory to 72° F.
 Polypropylene—Satisfactory to 72° F.
 Polypropylene—Satisfactory to 120° F.
 Buna-N—Satisfactory for "O" Rings
 Polyacetal—Satisfactory to 72° F.
 Ceramag—Satisfactory to 72° F.

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Platings (Cont.)	ខ្ល	304	316	440	Alur	Ē	HAS	Cas	Bras	Cast	Carl	ΧX	P V O	Tyg	Tef	Nor	Poly	Nylo	сyс	Poly	POL	RYT	CAF	CEF	CEF	ΞI	BUN	Silic	Neo	Eth)	Rub	Epo
Copper-Zinc Bronze Bath 100° F	<u> </u>	Γ-	A	-		A	A	-	-	-	-	-	A		Å	A	-	A	-	-	A	-	-	c	-	A	A	-	A	-	-	в
Cadmium Plating		-													-		_							-						_		_
Cyanide Bath 90° F	-	-	A	-	-	Α	A	-	-	-	-	-	A	-	A	A	-	A	-	-	A	-	-	c	-	A	A	-	A	-	-	в
Fluoborate Bath 100° F	-	3. 	A	•		D	A			-			A	-	A	A		D	-	-	A	-	•	D		A	B		С	-	1	B
Chromium Plating			- 254 - 1 - 3								6 485 6 485		9 A					1. Solit 1 1. Solit 1				89		100.5								
Chromic-Sulfuric Bath 130° F	-		С	-	-	A	A	-		-			A	16 (1) 17 (1)	A	D		D		-	A	-		A	•	С	D	4	D	-		D
Fluosilicate Bath 95° F	-	-	С	-	-	С	A	-	-	-	•	-	A	-	A	D	1	D	-	-	A	-	-	В	-	С	D	-	D	-	D	D
Fluoride Bath 130° F	-	-	D	-	-	С	A	-	-	-	-	-	A	-	Α	D	-	D	-	-	Α	-	-	В	-	С	D	-	D	-	-	D
Black Chrome Bath 115° F	-	-	C	2	-	A	A						A	-	A	D		D	-	-	A	-	+	A		С	D	4-0	D	-		D
Barrel Chrome Bath 95° F	-	-	D	-	-	С	A	-	-		•	•	A	4	A	D	-	D	•		A	•	-	A	-	С	D	-	D	-	-	D
Copper Plating (Cyanide)																																
Copper Strike Bath 120° F	<u> </u>			-	A	A	Α	-	-	-	-	-		-	A	Α	-		-	-		-	•	С	-	В	-	-	A	-	-	
Rochelle Salt Bath 150° F	-	-	Α	-	-	Α	A	-	-	-	-	-	D	-	A	Α	-	A	-	-	A	-	-	D	-	A	A	-	B	- 	-	C
High Speed Bath 180° F	-	-	A	-	-	A	A	-		-	4	-	D	-	A	A	-	A	-	•	A		-	D	-	A	A		B	-	-	C
Copper Plating (Acid)											4					29. 12							3									
Copper Sulfate Bath R.T.	-	17.4	D	1	•	A	A		-	8 - 95	-	18	A		A	A		ם	1) 10	-	A	96 R	3 9 88	D	-	A	A	1	A	i đi i	-	2
Copper Fluoborate Bath 120° F	-	-	D	<u> -</u>	-	D	A	•	-	-	-	-	A	-	A	A	-	Ы	-	-	A	-	-	ט	-	<u>A</u>	в	-	C			Ч
Copper (Misc.)																								Ь								Ь
Copper Fyrophosphate 140 F	- 		A		-	A	A	- D	-			-	A	-	A	Â	-	A		-				D		A	n	-	ñ		-	B
Gold Plating													~		-	~										-						
Cvanide 150° F			Δ			Δ	Δ	c					D		۵	Δ		Δ	_		Δ			B		A	Δ		A			D
Neutral 75° F	-		С	-	-	A	A	887-14. -	-		-	-	Α	-	A	Α	-	A	-	-	A	-	-	A	-	A	A	-	A	-		A
Acid 75° F	1-	-	c	-	-	A	A	-	-	-	-	-	Α	-	A	A	-	A	-	-	A	-	-	A	-	A	A	-	A	-	-	A
Indium Sulfamate Plating R.T.	-	1	С		-	A	A	-					A	· ·	A	A		D	-	-	A	-	-	A		A	A	-	A	-	-	A
Iron Plating										100.00					10.00											10 (* 19)	5.0					
Ferrous Chloride Bath 190° F		-	D		-	A	D	-					D	100	A	A	100	D	-		c	-	•	A		A	В	1	D		-	D
Ferrous Sulfate Bath 150° F	-	-	С	-	-	A	A	-	-	-	-	-	D	-	A	Α	-	D	-	-	A	-	-	A	-	Α	Α	-	В	-	-	D
Ferrous Am. Sulfate Bath 150° F	-	-	С	-	-	Α	A	-	-	-	-	-	D	-	A	A	-	D	-	-	A	-	-	A	-	A	Α	-	В	-	-	D
Sulfate-Chloride Bath 160° F	-	<u>.</u>	D	9 - 1		A	D	-				-	D		A	A	-	D	-		A	-		A	-	A	B	-	С			D
Fluoborate Bath 145° F	-	-	D	-		D	8		•	•			D	-	A	A	6.0	D	たべ	-	A		-	D	•	A	B	4	С	14-25		D
Sulfamate 140° F	-	-	D	ŀ	-	A	В	-	-	-	-	-	Α	-	A	A	-	D	-	-	Α	-	-	Α	-	Α	Α	-	Α	-	-	Α
Lead Fluoborate Plating	-	-	С	-	-	D	A	-	-	-	-	-	A	-	Α	A	-	D	-	-	Α	-	•	D	-	Α	В	-	C	L-	-	A
Nickel Plating				14 H								4						201.30							83 88			構成				82
Watts Type 115-160° F	ŀ	-	C	-	-	A	A			•	•	-	D	-	A	A	-	A	8 .	-	A			A	2 4 -33	A	A	5	A	-	-	D
High Chloride 130-160° F	-	-	C	•	-	A	A			•	-	1	D	-	A	A	-	D	-	-	A	1		A	1.	A	A		B	12	-	D
Fluoborate 100-170° F	-	-	C	-	-	D	A	D	-	-	-	-	D	-	A	A	-	D	-	-	A	-	•	D	-	A	В	-	C	<u>⊢</u> -		D
Sulfamate 100-140° F	-	-	C	-	-	A	A	-	-	-	-	-	A	-	A	A	-	A	-		A	-	•	A	-	A	A	- 19	A	-	- 192 - 94	A
Electroless 200° F	-	-	and a	-	-					•	2 .7 .0.		U		A	D	-		-	•	D			A	-	A	D			-	F	B
Rhodium Plating 120° F	-	-	D	-	-	D	D			-		-	A	-	A	A	U				A	-		A	•	A	A	-	B	10	F	A
Tin Eluchorate Disting 100° F	+-		A	-	-	A	A	-	-	-	-	-	A		A	A			-	-	Â	•	-	D D	•	A 	A	-			<u> </u>	A
Tine-Load Disting 100° F	-		0	-	-	2	A	-		-			A		A			n	20	-	~	-	-				B		č			Â
Tine Plating						2	A									1				4 (A)				-		-	5		Ľ	F		
Acid Chloride 140° F			D			4	D	4					A		A	A		D			Δ	-		A		Δ	Δ		A			A
Acid Sulfate Bath 150° F	-	-	C	-	-	A	A	-	-	-	-	-	D	-	A	A	-	D	-	-	A	-	-	A	-	A	A	-	B	-	-	D

Platings (Cont.)	302 Stainless Steel	304 Stainless Steel	316 Stainless Steel	440 Stainless Steel	Aluminum	TITANIUM	HASTELLOY C	Cast Bronze	Brass	Cast Iron	Carbon Steel	KYNAR	PVC (Type 1)	Tygon (E-3606)	Teflon	Noryl	Polyacetal	Nylon	Cycolac (ABS)	Polyethylene	POLYPROPYLENE	RYTON	CARBON	CERAMIC	CERAMAGNET "A"	VITON	BUNA N (NITRILE)	Silicon	Neoprene	Ethylene Propylene (EPM)	Rubber (Natural)	Epoxy
Acid Eluchorate Bath B T	<u> </u>	<u> </u>	Γ <u>΄</u>				<u> </u>	Ē	_			<u> </u>		Ľ.					Ň	_		_		n		•				_	Ē	
Alkaline Cvanide Bath B T	+	+-	-		-			-		-	-	-			Â			Δ	_	_	$\hat{\mathbf{A}}$	-	-	n	-					-	_	Â
Potash		Δ	1	Ā	C			C		R			Δ	R		Ā	R	Â		R	Â	3. A	Δ	Δ	Â	Δ			R		R	Â
Potassium Bicarbonate		4		B	C	A	B	в	14 N	D		Δ	4		Δ	A	C	A	С	B	A	A	4	Δ		A	A	3	Δ		B	A
Potassium Bromide	A	A	-	В	c	A	В	c	-	D	D	A	A	-	A	A	A	С	•	В	A	С	A	A	-	A	A	-	A	A	В	A
Potassium Carbonate	В	A	-	A	c	A	A	c	-	В	В	A	A	В	A	A	В	A	-	В	A	A	A	A	A	A	в	•	A	-	В	A
Potassium Chlorate	B	A	A	A	B	A	B	B	2	в	B	A	A	В	A	A	B	D	-	B	A	A	A	A		A	A	-X-	A		B	A
Potassium Chloride	c	A	A	B	B	A	Δ	c	С	В	B	A	A	A	A	Δ	Δ	B	С	B	A	A	Δ	A		A	A		A	A	A	A
Potassium Chromate	-	-	В	В	Α	-	В	Δ	-	A	-	-	Δ	-	-	A	С	-	-	B	-	Α	A	D	s. 397	A	Α	-	A	-	B	c
Potassium Cyanide Solutions	в	A	B	A	D	A	A	D		В	в	Δ	A	-	A	A	C	Δ	-	в	Α	A	c	A	-	B	A	-	A	A	Ā	Ā
Potassium Dichromate	B	Δ	Δ	Δ	Δ	Δ	R	0		R	C	Δ	Ā		Δ	Δ	C	n		R	Δ	Δ	Δ	Δ		B	Â	à ^{AC}		A	Â	Â
Potassium Ferrocyanide	R	A		A	n n	Ê	B	Δ			C		Â		Δ	2	Č	Δ	1. N 19. N	Δ		2		2			n	5		-		
Potassium Hydroxide (50%)		R	R	R			Δ		n	6	Δ	n	Δ	R	Δ		n	Δ	C	B	Δ	Δ	<u>, 70</u>	D	Δ	n	B	C	Δ	Δ	$\frac{2}{2}$	Δ
Potassium Nitrate	R	Δ	B	Δ	B	Δ	R	B		Ŭ.	R	Δ	Δ	C	Δ	Δ	B	C C	-	B	Δ	ĉ	Δ	Δ	<u> </u>	B	Δ	-		$\overline{\mathbf{A}}$	Δ	
Potassium Permanganate	B	A	B	R	B	R	B	B	20 ×10	R	B	Δ	Δ	1	Δ	Δ	C	n	C	B	B	Δ	Δ	Δ		B		4	Δ	Î	R	B
Potassium Sultate	B		R	B	Δ	Δ	Δ	8	R	B	B	Δ	Δ	Δ	Δ	A	B	с С		B	Δ	Δ	Ā	Δ		6	Δ	C	Δ	Δ	ā	
Potassium Sulfida					B			B		B	B		A				-											<u> </u>		-	<u> </u>	
Propago (Liquified)12	ĥ		<u> </u>						-	-	B	-	6	<u> </u>	$\overline{\mathbf{A}}$		-	-			- n	-	-	-	-	-	Â					
Propulana Church	6				A	-	-		<u></u>		D	-	5 P	- 	A		Ā	-	- D	- -		्रस	<u>A</u>	$\hat{}$	28	<u>^</u>	$\widehat{\mathbf{A}}$	5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Ľ		$\hat{\mathbf{A}}$
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Pyrogallic Acid	B	Δ	Δ		B	<u> -</u>	λ. Δ	B	30	B	R		Δ		Δ		<u> </u>	Δ		<u>×</u>		2		Δ		Δ				-	4	
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Shellar (Bleached)	Â	A	5		Δ	Ê	100	Δ	B	B	6		2	10.1	Δ	Ê	Δ	Δ	-		Â	-	Ĥ	Δ		Ê		Ū	Ľ	<u>-</u>	Ĵ	
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Silicone	-	B	1	Δ	B	-	7	Δ	-	-		-		en 200	-	Δ	Δ	Δ	- 160 C		Δ	-	Δ	Δ	_	Δ	Δ	B	Δ	Δ	Δ	Δ
Silver Bromide	-	C	C	R	n	-		-	-		-	-			-		ĉ	-	_	_	-	-	$\hat{\mathbf{A}}$	<u>^</u>	_	-		-	Ĥ	-		
Silver Nitrate	B	4	R	Δ	D	Δ	Ă	D.		D	D	Δ	Δ	B	Δ	Δ	c	Δ		B	Δ		Δ	Δ.		Δ.	C	10 St.	Δ	C	Δ	Ā
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Soda Ash (See Sodium Carbonate)	1.200			5.4			Δ		- X	-	-	0.38	1000							_	_	2			~	<u>.</u>		-			\rightarrow	
Sodium Acetate	B		Δ	B	B	Δ	<u> </u>	B		С	С	Δ	Δ	-	Δ	Δ	B	Δ	_	B	Δ	-	Δ	Δ	-	D	D	-	c	_	Δ	
Sodium Aluminate	B				C	B	B	B	е. Д		C		5		Δ	4	B	Δ	8.0			Δ	Â	A		Δ	Δ	A	Δ	Δ	R	Δ
Sodium Bicarbonale	B	Δ	Δ	Δ	Δ	Δ		R	Δ	C	c	Δ	Δ	R	Δ	Δ	B	Δ	B	R	Δ.	Δ	Â	Δ	Å	Δ		C			Δ	
Sodium Bisulfate	Δ	Δ		Δ	D	B	R	C	C C	Ð	D	Δ	Δ	B	Δ	Δ	B	C C	С	B	Δ	Δ	Δ	Δ	-	B	Δ	C	Δ	-		
Sodium Bisulfite	F.		-	Δ	Δ	Δ	B	c		D		Δ	Δ	B	Δ	Δ	B	D	B	B	Δ	Δ	$\hat{\mathbf{A}}$	$\hat{\mathbf{A}}$	-	Δ		C C	Δ	_	Â	
Sodium Borate	R	A	1	A	Ĉ		Δ	Δ	3	C	0		Ĉ	14 . ·	A		1	Δ	-	Δ					ula ^{ke}			R		1.195	<u>i</u>	Ê
Sodium Carbonate	B		R	R	C	Δ	6	R	R	R	R	•	4	R	4	Δ.	Δ	4	C	R	Δ	Δ	B	۵		A	Δ			Δ	4	Δ
Sodium Chlorate	B			Δ	B	4	B	R	-		C	4	A	R				Δ	-	B	Δ		2	Δ		A	-			4		
Sodium Chloride		1	Ċ	P		A		P	2	P	c	A	A	P			Δ	4	P		^	7	7	<u>^</u>		~		Ċ			<u> </u>	
Sodium Chromate		Â	Ā		n	Ê	R	P		2	P	Ê		Ľ			n		2	5	-	2		R							5	Ê
Sodium Cranida		A		A		4			D	P	P		A		-	-	n	2		P	2	-		-		-	2	n		-		Ă
Sodium Eluoride	P	C	6	C			Δ		<u>м</u>	ם				n	4					0		-	24	-		R		-		4	싉	
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Sodium Hydroxide (20%)	-	A	A	A	D	A	A	С	D	A	-	A	A	в	A	A	D	С	С	B	A	A	c	D	A	A	A	D	B	A	A	A
Sodium Hydroxide (50% Solution)	-	A	В	-	D	A	A	С	D	В	-	D	A	В	A	A	D	С	С	С	A	в	c	D	A	D	D	D	C	-	A	A
Sodium Hydroxide (80% Solution)	-	A	D	•	D	A	B	С	D	С	•	1_2	A	8	A	A	D	С	C	С	A	B	C	D	A	B	D	D	C	9	B	Å.
Sodium Hypochlorite ³ (to 20%)	-	С	C	C	С	A	A	D	D	D	•	-	A	B	A-	A	D	A	-	B	D	c	D	A	8	A	С	D	D	B	C	B
Sodium Hypochlorite	D	-	A	-	D	A	Α	D	-	D	D	A	A	-	A	A	-	Α	-	-	A	С	-	D	-	В	В	С	Α	-	-	Α
Sodium Hyposulfate	-	A	A	-	D	-	-	D	-	-	-	-	-	-	A	-	-	-	-	-	-	-	-	-	-	-	-	-	С	-	С	С
Sodium Metaphosphate ²	A	-	A	-	A		-J.	С	С	В	B	•	-	-	A	1	8	A	-	-	D	-	A	A	-	A	A	-	B	A	A	A
Sodium Metasilicate	A	•	A	•	В	•		B	19 19	С	С	-		-	A	•	D	•		-	-	•	A	-	-	A	A	D	A		<u>i</u>	A
Sodium Nitrate	В	Α	A	A	A	A	B	В	С	A	В	A	A	В	A	A.	B	A	-	В	A	-	A	A	A	D	c	D	B	A	C	A
Sodium Perborate	В	-	С	-	В	-	-	С	С	B	B	-	-	-	Α	A	В	A	-	-	A	-	A	A	-	A	B	D	B	A	С	A
Sodium Peroxide	B	A	A		C		В	С	С	D	С	-	A	-	A		D	D	-	-	-	- 1	A	A	-	A	C	D	B	A	C	A
Sodium Polyphosphate		ann a'						8 8 9 8 8 8 9 9 8 9 9 9			· 小月 100 日						100			14				4 V (8)						64		
(Mono, Di, Tribasic)		A	A	-	D	A	A	С		6-21	•	-			A	A	B		-	<u>* 1</u>	-	-	A	A	-	A	A	24	D	A	A	A
Sodium Silicate	B	A	B	A	C	A	В	С	С	-	B	-	A	B	A	A	С	A	-	-	A	-	A	A		<u>A</u>	<u>A</u>	-	<u>A</u>	<u>A</u>	<u>A</u>	A
Sodium Sulfate	В	A	A	C	В	A	В	В	В	A	В	-	A	-	Α	Α	В	A	-	B	A	A	A	A	-	<u>A</u>	A	-	A	<u>A</u>	C	A
Sodium Sulfide	B	A	B	-	D	A	B	D	D	A	B	•	A	B	A	A	B	A		B	A	A	A	A	-	A	C		A	A	C	A
Sodium Suitite	2 3	C	C	. • 5	C	A	A	C		A	•	•	A	A	A	-	1	D	-	<u>A</u>	-	- 1	A	A	-1	A	A	-	<u>A</u>		<u>A</u>	A
Sodium Tetraborate	-	-	A	-	-	-	-	-	•	-	-	-	A	-	-	A	R R	-	-	-+	-	-	A	A	-+	A		-+	-+	-	-	A
South Thiosuphate (Hypo)	A	A	A	- 	D	A			<u> </u>		B		A	-	A	A		A	-	-			A	A						A	-	A
Sorginum Sov Satros		A	A	••• 	-	an an				A	-					-	A	A	7	-	-		A		-	-					<u> </u>	A
Stannic Chloride		n	n			Δ	R		2		_ D	Δ							-		Δ	17 (c)	-		-							
Stannic Fluoborate		-	Δ	-		-	-	-	-		-	-	-	-	-		c c	1		-+	-+	-	-	<u></u>	-+			-		-	-	Â
Stannous Chloride	D	D	Ċ		D	Δ	A	D		n	D		A	Δ	Δ			n		Δ				Î		R	ĉ	n	ñ		A	Â
Starch	8	A	A		A		-	B		c	C	-	A		A	A	A	A		B			A	A		A	A		A			A
Stearic Acid ²	В	A	A	A	В	A	A	С	С	c	C	A	A	в	A	A	A	A	-	B	D	-	A	A	A	A	в	D	B	в	c	A
Stoddard Solvent	A	A	A	A	A	A	A	A	A	B	в	A	A	D	A	D	A	A	B	D	D	A	A	A	-	A	в	D	D	D	D	A
Styrene	A	A	A		A			A	-	-	A	-	1	а 19-	A	A	A				1	-	A	A		B	D	D	D	D	D	A
Sugar (Liquids)	A	A	A	A	A		A	A	-	B	B	38. 			A	A	A	A	B	2.8	A		A	A	A	A	A		B	-1	A	A
Sulfate Liquors	-	С	С	-	В	-	A	С	-	-	-	-	-	-	-	-	D	-	-	-	A	-	A	A	-	-	-	-	c	-	-	A
Sulfur Chloride	-	D	D	D	D	-	-	С	D	-	-	-	A	С	A	A	D	A	-	A	D	-	A	С	-	A	D	-	D	D	D	С
Sulfur Dioxide ²		A	A	C	A	A	B	B	•	-		B	D	B	A	D	B	D	D	С	D	A	A	A	-	D	D	C	B	A	D	A
Sulfur Dioxide (dry)	A	A	A	•	A	90 9 - 94	A	A	С	A	B	in c	D	•	A	-	I	A	-	D	-	-	A	A	-	D			D	÷.	D	D
Sulfur Trioxide (dry)	A	A	С	•	A	-	-	В	-	В	В	-	A	В	A	D	D	D	-	-]	-	-	B	A	-	A	D	-	D	В	С	Α
Sulfuric Acid (to 10%)	-	D	С	С	С	A	A	D	D	D	-	A	A	В	A	A	D	D	В	В	A	A	A	A	-	Α	С	-	D	D	С	Α
Sulfuric Acid (10%-75%) ²	-	D	D	D	D	C	В	D	D	D	-	A	A	В	A	B	D	D	B	C	A	B	A	D	С	A	D	-	D	D	D	В
Sulfuric Acid 75%-100%	•	•	D			D	B	•	D	5	•	A	B		Å	A	•	D	-		B	c	-	A	÷	A	D		D			D
Sulfurous Acid	С	С	В	С	С	A	В	D	-	D	D	-	A	В	A	Α	D	D	-	B	A	-	В	A	-	A	C	D	В	В	C	A
Sulfuryl Chloride	-	-	-	-	-	-	-	-	-	-	-	-	A	-	A	-	-	-	-	-	-	-	-	A	-	-	-		-	-	-	A
Syrup	-	A	A	A	A	29 è		D	-	-	-	2	A			A	A	A	B	-	A	-	A	A	A	A	A	-	B	-	A	A
Tallow		A	A	-	A	-		•	•	-	-1		•	-		A	A	A	-	C	-	•	A	A	-	A	A	-		•	<u>*</u> #	A
Tannic Acid	В	A	A	A	C	A	B	B	-	C	C	A	<u>A</u>	B	A	A	B	D	-	B	<u>A</u>	-	A	A	A	A	D	c	<u>A</u>	<u>A</u>	A	A
Tanning Liquors	-	A	A	-	C	A	A	A	-	-	-	•	A	В	A	-	B		-	-	A	-	A	A	-	A	C	4	-+		-	A
I artaric Acid	B	A	6	6	C	A	6	A	C	D	D	A	A	В	A	A	B	A	-	6	A	- 1	A	A	Se ()	A	D	C	A	2.1	A	A

	302 Stainless Steel	304 Stainless Steel	316 Stainless Steel	440 Stainless Steel	Aluminum	TITANIUM	HASTELLOY C	Cast Bronze	Brass	Cast Iron	Carbon Steel	KYNAR	PVC (Type 1)	Tygon (E-3606)	Teflon	Noryl	Polyacetal	Nylon	Cycolac (ABS)	Polyethylene	POLYPROPYLENE	RYTON	CARBON	CERAMIC	CERAMAGNET "A"	VITON	BUNA N (NITRILE)	Silicon	Neoprene	Ethylene Propylene (EPM)	Rubber (Natural)	Epoxy
Tetrachlorethane	-	-	A	-	-	A	A	-	-	-	-	-	D	-	Α	D	A	A	-	-	A	-	A	A	-	A	D	-]	-	D	D	A
Tetrahydrofuran	-	A	A	-	D	-	-	D	-	D	A	D	D	-	A	D	A	A	-	D	С	A	A	A	-	D	D	-	D	В	D	A
Toluene, Toluol ³	A	A	A	•	A	A	A	A	A	A	A	A	D	D	A	D	A	A	D	D	D	A	A	A	A	C	D	D	D	D	D	A
Tomato Juice	A	A	A	•	A	•		С		С	С	-	-	•	A	A	B	A	B	-	A	A	A	A	-	A	A	-	A	-	-	A
Trichlorethane	-	С	Α	-	С	A	A	С	-	С	-	-	-	-	Α	D	A	-	-	-	-	-	Α	Α	-	Α	D	D	D	D	D	A
Trichlorethylene ²	В	A	Α	-	В	Α	Α	В	A	С	В	A	D	-	Α	D	Α	С	D	D	D	С	Α	Α	С	Α	D	D	D	D	D	A
Trichloropropane			A	-	4	-	-	A		-	- 1	-	- 6	•	-	D	A	-	D		ц. С	•	A	A		A	A	-	A	-	•	A
Tricresylphosphate	-	-	A			B	A	A	-	-		-	D		A	A	С	-	-	1	•		A	A		B	D	-	D	A	-	A
Triethylamine	-	-	-	-	-	-	-	A	-	-	-	-	A	-	-	В	D	-	-	-	+	-	A	A	-	Α	Α	D	В	-	-	A
Turpentine ³	В	A	A	-	С	-	Α	В	С	В	В	Α	A	В	Α	D	Α	Α	-	D	В	Α	A	A	-	Α	D	-	D	D	D	A
Urine	-	A	A	-4	B	-	-	С	-	B	-	-	A	-	-	A	A	A	-	B	A		A	A	A.	A	A	-	D	A	-	A
Vegetable Juice	-	A	A	•	A	-	-	С	1 1 1	D	-		-	-	-	A	A	A	¢.				A	A		A	A	B	D	-	D	A
Vinegar	Α	A	A	A	D	Α	A	В	В	С	D	Α	Α	-	Α	Α	в	Α	В	В	Α	Α	A	A	A	Α	С	-	В	Α	С	Α
Varnish (Use Viton for Aromatic)	Α	Α	A	A	A	-	-	A	В	-	С	-	-	-	Α	D	Α	A	-	-	Α	-	Α	Α	Α	Α	В	С	D	-	D	Α
Water, Acid, Mine	-	A	A	-	С	1	4	C	D	С	-	1	A	B	-	A	D	A	В	24	A	В	A	A	-	A	A	-	B	-	B	Α
Water, Distilled, Lab Grade 7	-	A	A	-	В	-	•	A	-	D	-	-	A	B	A	A	Α	A	A		A	A	A	A	A	A	A	1. K	B	A	A	A
Water, Fresh	A	A	Α	-	Α	-	-	A	С	В	D	-	A	в	Α	A	Α	A	Α	D	A	Α	Α	Α	A	Α	A	-	в	Α	Α	Α
Water, Salt	-	Α	Α	-	В	-	-	В	С	D	-	-	Α	В	-	Α	Α	Α	-	-	A	Α	Α	Α	Α	Α	A	-	В	Α	Α	Α
Weed Killers	-	A	A	- ³	С	-	-	C	•	-	-	12	-	•		•	A	A	-	-	a., "	-	A	A		A	8	•	C	-2	-	A
Whey	-	A	A	-	B	-	-	-	-	-	-	-	10	-	-	-	A	-	-		\mathbf{x}_{i}		A	A	-	A	A	-	-	-	1	A
Whiskey and Wines	A	Α	A	A	D	-	-	В	В	D	D	-	A	-	Α	A	Α	Α	-	В	Α	-	Α	A	-	A	Α	В	Α	A	Α	Α
White Liquor (Pulp Mill)	-	Α	Α	-	-	-	A	D	-	С	-	-	A	-	A	A	D	Α	-	-	Α	-	Α	Α	-	Α	A	-	Α	-	-	Α
White Water (Paper Mill)	-	A	A		-	-	-	A	-	-	-	- *	-		-	-	B	A	-		A	•	A	A		A	-	-	A	-		A
Xylene ²	A	A	A		A		A	A	A	A	B	A	D	•	A	D	A	A	D	D	D	A	A	A	A	A	D	D	D	D	D	A
Zinc Chloride	D	D	В	В	D	A	В	D	D	D	D	Α	Α	-	Α	Α	С	Α	-	В	Α	Α	Α	Α	-	A	Α	-	Α	A	Α	Α
Zinc Hydrosulphite	-	-	A	-	D	-	-	D	-	D	-	-	-	-	-	A	С	-	-	-	-	Α	Α	Α	-	-	Α	-	Α	Α	-	Α
Zinc Sulfate	B	A	A	A	D	A	B	B	С	C	D	A	C	B	A	A	С	A	-	B	A	A	A	A		A	A	-	A	A	С	A