# **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 <sup>5</sup>	Α	Α	Α	-	В	Α	A	D	-	-	С	-	D	D	Α		Α	Α	D	С	В	Α	Α	Α	-	D	В	В	D		C	Α
Acetamide	-	В	A	-	-	-	-	-	-	-	С	-	-	-	-	-	В	-		-	-		•	Α	-	Α	Α	-	Α	Α	D	Α
Acetate Solv.2	A	В	A	В	В	e.	•	A	С	В	Α	Ī	В	D	A	•	-	Α		В	D	•	A	A	-	D	D	-	D	-	•	A
Acetic Acid, Glacia1	-	В	A	A	В	A	A	С	С	D	A	<b>,-</b>	750	В	A	С	D	D	D	В	В	A	A	A	•	D	D	В	C	В	С	В
Acetic Acid 20%	-	В	Α	<u>-</u>	<u> </u> -	Α	Α	<u> </u>	С	-	-	Α	В	-	Α	Α	-	D	-	-	Α	Α	•	Α	-	Α	С	-	С	-	_	В
Acetic Acid 80%	-	В	Α	-	-	Α	Α	-	С	-	-	Α	D	-	Α	В	-	D	-	-	В	-	1	Α	_	Α	С	-	D	- ]	-	В
Acetic Acid		В	A	В	В	A	A		7800	6.7077	C	В	A		A	A	D	D	O	В	A	A	A	A	+	O	С	H	C	В	С	A
Acetic Anhydride	В	A	A	B	В	A	A	C	D	В	D	D	D		A	D		D	O	A	Α	A	A	A	•	D	A	С	В	В	C	A
Acetone <sup>6</sup>	Α	A	Α	В	A	A	A	Α	Α	A	Α	D	D	D	A	D	В	Α	D	С	В	A	A	Α	Α	D	D	В	С	Α	D	В
Acetyl Chloride	-	С	Α	-	-	-	-	D	-	-	-	-	-	-	Α	-	-	-	,	-	-	Α	-	-	-	A	-	-	-	-	Α	A
Acetylene <sup>2</sup>	A	A	A	A	A	907,000		В	-	A	Α	-	В	-	-	-	Α	A		-	D	A	A	A	-	Α	A	C	В	Α	С	Α
Acrylonitrile	A	A	C	-	В	В	В	A		C	•	1	Ţ	1	•	-2	В	-	D	-	В	A	A	Α	*	O	D	-	D	D	-	A.
Alcohols						Γ																					П					
Amyl	Α	A	Α	-	C	Α	Α	Α	В	С	C	Α	Α	В	Α	С	Α	Α	В	В	В	A	A	Α	-	Α	Α	D	Α	Α	c	A
Benzyl	-	Α	A	-	В	A	A	Α	С	-	-	-	D	В	-	Α	Α	Α	D	D	Α	-	A	A	-	Α	D	-	В	В	D	A
Butyl	A	A	A	•	В	В	A	В	C	O	С	A	A	В	A	A	A	Α		В	В	A	A	A	•	A	A	D	Α	A	A	A
Diacetone <sup>2</sup>		A	A	•	A	A	A	A	C	•	A	•	D	-	-	A	A	A		-	D		A	A	-	D	D	-	D.	Α	D	A
Ethyl	-	Α	Α	A	В	Α	Α	Α	С	Α	Α	-	A	С	-	Α	В	Α	В	В	Α	-	A	Α	Α	Α	Α	В	Α	В	Α	A
Hexyl	-	A	Α	-	Α	Α	A	Α	С	-	Α	-	-	-	-	Α	Α	Α	•	-	Α	-	A	Α	-	Α	Α	D	В	Α	Α	A
Isobutyl		A	A	1	В	A	A	A	C	1	Α	- 2	-	•	7	A	Α	A	В	1	A		A	A	-	A	С	В	A	A	A	A
Isopropyl	2	A	A	•	В	A	A	A	C	С	A	-	-	-	-	Α	A	A	•		A		A	A	-	Α	C	С	В	Α	Α	A
Methyl <sup>6</sup>	-	A	A	A	В	A	Α	Α	С	A	Α	-	В	-	Α	Α	С	A	D	В	Α	-	A	A	Α	С	В	-	Α	Α	Α	A
Octyl	-	Α	Α	-	A	A	A	Α	С	-	A	-	-	-	-	Α	Α	A	-	-	-	-	A	Α	-	Α	В	-	В	Α	С	A
Propyl		A	Α	-	A.	Α	A	A	•		A	В	A	-	A	Α	A	Α	•	-	A		A	A		A	A	В	A	A	A	A

A-No effect-Excellent

B-Minor effect-Good

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1. P.V.C.—Satisfactory to 72° F.

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4. Buna-N—Satisfactory for "O" Rings

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

																														Ethylene Propylene (EPM		
	<u></u>	_	<del>-</del>	<del></del>																	ш				<u>.</u>		<b>∷</b>			) e		
	Stainless Stee	Steel	Steel	Steel			ပ							<u> </u>					_		Z				Α." Τ		(NITRILE)			yer	a	
	SS		SS					a			<u> </u>		7	909					BS)	e	ž				Ä		Ё			ō.	ţ	
	n e	Stainless	Stainless	Stainless	Ε	Σ	7	ZUC		_	Ste		/pe	E-3			tal		₹	/ler	Ö		z	ပ	AG		Z		e	e.	ž	
	Stai	Stai	Stai	stai	in	Ę	핕	ã	s	2	ō	AR	£	'n	Ë	_	ace	_	olac	ethy	ΥPF	N O	80	¥	Σ	Ž	¥	uc	ore.	<u>le</u> u	)er	≿
	302 8	304	316	440 8	Aluminum	TITANIUM	HASTELLOY	Cast Bronze	Brass	Cast Iron	Carbon Stee	KYNAR	PVC (Type 1)	Tygon (E-3606)	Teflon	Nory	Polyacetal	Nylon	Cycolac (ABS)	Polyethylene	POLYPROPYLENE	RYTON	CARBON	CERAMIC	CERAMAGNET	VITON	<b>BUNAN</b>	Silicon	Neoprene	ŧ	Rubber (Natural)	Epoxy
	m		_		_	·			<u>m</u>	<del></del> -1	_	<u>¥</u>		·	_		_	_	$\Box$		- 1		- 1	- 1	0				_	_		
Aluminum Chloride 20%	-	D	С	D	В	Α	Α	D	-	D	Α	-	Α	В	_	A	С	Α	-	В	A	<u> </u>	Α	A	-	A	A	$\rightarrow$	-	A	-+	A
Aluminum Chloride	С	D	С	-	D	C	Α	С	-	D	В	Α	Α	Α	A	Α	-	D	- ***	-	Α	Α	A	Α	-	Α	Α		<u> </u>	-		A
Aluminum Flouride	9 - 21	D	С	D	-	D	В	7.5	-		A	A	A		A	Α	C	D	J# 9	В	A	•	A	-	_	A	A	C	A	-		A
Aluminum Hydroxide <sup>6</sup>	*	A	A	A	A	3 <b>.</b>		A	-	P	A		A	•	A	Α	В	A	9	• 1	A		A	A	A	A	A		A	_	-	A
Alum Potassium Sulfate (Alum), 10%	<b>-</b> -	A	-	-	A	-	В	-	•	D	A	-	A	•	A	-	-	A	-	A	-	-	A	A	-	A	-	-	A	-	-+	A
Alum Potassium Sulfate (Alum), 100%	-	D	A	В	В	-	В	С	-	-	A	-	A	В	A	Α	C	D	- 	В	A	-	A	A	-	A	A	- 37		-		A
Aluminum Sulfate	•	C	C	A	A	A	A	C	С	D	A	Α	A	В	A	A	C	A		B -	Α	A	A	A	-	A D	A D	W 7			-	A
Amines	A	A	A	**************************************	Α	В	A	В	-	A	В	D	C A	A	A	B A	D	A		5 100 9	- A	N 1005 4	A	A	-	A	D		A	9 '		A B
Ammonia 10%	-	В	A	-	В	A B	A	D	•	D D	- В	D	A	- В	A	A	- D	A	_	- В	A	A B	c	A		D			$\rightarrow$	- A	-+	A
Ammonia, Anhydrous Ammonia, Liquids	Α .	A	A	A	D	В	В	D		A	A	U	A	В	A	A	ם	A		D	A	7.0	A	A	-		-			20.00	0.001173	A
Ammonia, Ciquios		A	A	A	C	-	<b>B</b>	ם		^	Α		В	В	7	A	Ç	tires =		23	A	45 H	A	A			A					A A
Ammonium Bifluoride	-	C	Α		D	-	В	U				- 1	A	-	-	Α	D		-	ā.	A			A	-	A	A	-		- 1		A
Ammonium Carbonate	В	A	Â	A	C	A	В	В	-	С	В	-	Â	В	A	A	D	A	_	-	$\frac{2}{A}$	-	Ā	A	_	$\rightarrow$	â	$\rightarrow$	$\rightarrow$	A	-	<u> </u>
Ammonium Casenite	- A		Â			_	÷_*						1		3	A	D		_4	n M			_	_	- 150	-		_	A	-	0.00	A
Ammonium Chloride	С	Α	С	A	С	D	A	D	C	D	D	A	Α	В	Α	A	В	Α	-	В	Α	A	Α	A		A	A	- 30		A	200	A
Ammonium Hydroxide	Α	A	A	A	С	Α	A	D	D	Α·	C	-	Α	В	A	Α	D	Α	В	В	A	A	A	A	-	В	В		- C			A
Ammonium Nitrate	A	A	Α	A	В	A	A	D	D	A	D	-	Â	В	A	A	c	D	-	В	A	Â	Â	A	_	D	Ā		$\rightarrow$	-11	$\rightarrow$	A
Ammonium Oxalate		Α	A	A	3	200	Δ				A		į I	•		1300	В		-				A	29-11	48		Α	000 m	A	34.1	100 10 10	A
Ammonium Persulfate	-	Α	A	A	С	С	A	Α		D	Α	D	Α	4	A	Α	D	D		93. M	Α	1.5	Α	A		С	A	-	-	A		A
Ammonium Phosphate, Dibasic	В	A	Α	A	В	Α	A	С	-	-	D	-	Α	-	A	Α	В	Α	-	В	Α	-	Α	Α	-	Α	A	В	(ii m)		A	A
Ammonium Phosphate, Monobasic	-	Α	Α	A	В	Α	Α	D	-	-	Α	-1	Α	Α	Α	Α	В	Α	-	В	Α	-	Α	Α	-	Α	A	В	A	A .	A	A
Ammonium Phosphate, Tribasic	В	A	A	A	В	A	A	С		С	D		A	Ţ	A	Α	В	Α	-	В	A		Α	A		A	A	В	A	A .	A	A
Ammonium Sulfate	С	D	В	A	В	A	A	В	C	С	C	A	A	D	A	A	В	D	-	В	A	Α	A	A		D	Α	В	A	A,	A	A
Ammonium Thio-Sulfate	-	-	Α	-	-	Α	-	-	-	D	Α	-	•	-	-	-	В	-	•	-	-	-	Α	Α	-	-	Α	-	Α	-	- [,	A
Amyl-Acetate	В	Α	Α	С	В	Α	Α	С	-	-	C	С	D	D	A	D	Α	В	١	D	D	Α	A	A	•	D	D	D	D	A	D /	Α
Amyl Alcohol		Α	A		B	A	A	A	÷	42.3	A	A	A	В	Α	C	A	A	-	В	A	(- °	A	A		В	В	D	A	A	C .	A
Amyl Chloride		C	В	-	D	1	A	Α			Α	Α	D	С	A	D	Α	С	-	D	D	-	A	A	2	A	D	•	D	D	D ,	A
Aniline	В	Α	A	A	С	Α	В	С	-	-	С	С	D	D	Α	D	D	С	D	С	В	Α	A	Α	-	С	D	С	D	В	D /	Α
Anti-Freeze	-	Α	A	<b>-</b> _	Α	-	Α	В	В	-	С	-	Α	В	Α	Α	Α	100	В	В	A	_	Α	Α	Α	Α	_	D. 0400			A A	A
Antimony Trichloride	٠	D	D	-	D	С	A	***	# 1	-	•	2	A	A	A	-	-	D	-	Α	•		•	A	ή <u>.</u> ψ	A	-	-	C	-	A	A
Aqua Regia							· 中		連手			in de	† 10. M		1		30	8 9r							. <b>6</b> ⊀ . 49 1	e us		(i)			3	
(80%, HCI, 20%, HNO)		D	D	2	D	A	D	D		-		С	D	D	A	D	D	D	•	D	C	-	80 A 80 B	D	÷	С		C	-	2 20 0		D
Arochlor 1248	-	-	-	Ŀ	-	-	-	-	_	-	Α	-	_	-	Ŀ	D	-	ļ-	•	-	•	긕	A	-	-	$\rightarrow$	D	-	$\rightarrow$		+	<u> </u>
Aromatic Hydrocarbons	-	-	Α	-	A	-	-	Α	•	Α	Α	-	D	-	Ŀ	D	Α	-	-	С	-	-	<u>A</u>	•	-		D					A
Arsenic Acid	В	A	A	-	D	•	•	D							Α	A	D	A	•	В	A		Α	A	T	E 600	A	-	A		C .	20001200
Asphalt	-	В	A	-	C	4 18	-	A	•	C	-	-	- 100		-		A	A		-		A	-	A		-	_	30.00		-	D .	
Barium Carbonate	В	A	A	A	В	A	A	В	-	В	В	$\vdash$	A	A	A	A	A	A	-	В	A	-	A	A	Α	_	A	+	A	_ +	$\rightarrow$	A
Barium Chloride	С	D	Α	A	D	Α	A	В	-	-	C	Α	Α	В	Α	Α	A	В	-	В	Α	Α	A	Α	-	A	A		70.00	6 G	W 80.3	A
Barium Cyanide	-		A	-	-		-	С	7	•	A	-	- A		-	-	В	978	-	В	<b>A</b>		A	•	-		C		-	A	22 30 10	A
Barium Hydroxide	В	-	A	A	D	B	B		÷ -5°			A	A	•	A	A	D	A.		В	A	A	A		A	_	_	C	A		A	
Barium Nitrate	-	A	A	-	-	A	-	D	Ē	Α _	Α_	-	B	<u> </u>	-	A	Α	- A	<u> </u>	- P	_	_	Α	A B	-	Α	A	- D	-	<u>A</u>		B B
Barium Sulfite	В	A	A	A	D	A	A	C	-	-	C	Α	A	- A/s	A	A	A	Α	-	В	Α	Α	A		Ş W	Α	A			A	2.7	A
Barium Sulfide	B		A	•	D	В		JOHN HO	В	D		Ā	A	A	A	A	В	D	-	B	A D		A	Α	\$ * * \$	A		-		-	A	200
Beer?	A	A	A	Ľ.	A	Α	A	A		<b>U</b>	у.	•	~		Δ.	14	10	10	<u> </u>	L 0	U	10	^	A	48	<b>*</b> **		n seki	21	$\Delta I$	<u>~1</u>	لد

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Beet Sugar Liquids	Α	A	Α	Γ-	Α	-	-	Α	В	Α	_	-	Α	_	Α	Α	В	Α	В	_ ]	Α	-	Α	Α	-	Α	Α	-	В	Α	Α	Α
Benzaldehyde <sup>3</sup>	A	A	A	<del> </del>	В	Α	Α	A	=	В	Α	С	D	D	A	D	_ A	$\overline{}$	D	D	D	Α	Α	A	-	D	D	В	D	Α	D	Α
Benzene <sup>2</sup>	В	A	A	A	В	A	В	_	Α		C	В	D		A		A	-	D		D	A	A	A	A	A	D		_	D	D	A
Benzoic Acid <sup>2</sup>	В	A		A	В	A	A	В		D		A	A	В	A		82.2	D		oros, vondic	ם	10.0	Α	В	-	Α	D	Ţ	2000 07%	D	D	Α
Benzol	-	A	A		В	A	A	В	A	_		-	D	-	A	300	Α	A		-	A	-	A	A	Α	D	D	_	D	-	-	A
Borax (Sodium Borate)	-	A	A	A	С	В	A		В	Α	С	Α	A	Α	Ā	-	A	A		В	A	Α	A	A	A	A	В	С	A	Α	С	A
Boric Acid	В	A	A		В		A	_		D	60 320	Sec. 188	A	В	A	7 7787 18	C 80 1	A		В	A	24.0	A	A	A	A	A		Α	Α	A	A
	-	*	A	A .		A	<b>^</b>	A		A		A		-	~	A	A						A	A	40	A	A	00 <b></b> VA	Α			A
Brewery Slop	-	- D	200, 30					ASS 10		00,000		_	D	긁	-	D	rep. sense	D D	_	D	D	D	D	A	D	A	218 JOSE	Atta kan	22 5	D	- D	C
Bromine <sup>2</sup> (wet)	D	+−	D	D	D	Α	Α	C	-		D	A	B A	В	A	4		A	D	ט	ט	В	A	A	۲	A	A	-	В	A	٦	A
Butadiene	Α	A	Α	-	A	-	-		Α	С	С	Α		-	Α	-	Α	-	-	_	-		0.00		- SE 53		100 10	,		_	-	-
Butane <sup>2 1</sup>	A	A	A	-	A	•			A	C	C	Α -	Α .	С	20 O.M.	WY KE	A	A	B -	С	D	A	Α	Α		A	A	D	В	D -	D	A
Butanol	9 <del>7</del> %	A	A	-	A	*	A	A	P_16	- 01 - 02 - 03	20.50		-	2.83	A	-		88.3		170	#1	*	•	ig 3∌	3-53		-73.2	* 1		- 36	200	22 32
Butter	Ŀ	В	Α	Ŀ	A	_	-	D	-	D	_	<u>-</u>	-	В	-	_	A	-	В	-	-	_	A	A	-	Α	Α	-	В	Α	D	Α
Buttermilk	Α	Α	Α	Α	Α	-	- 8 88	D	-	D	-	-	-	В	Α	-	Α	_	В	-	-	_	Α	Α	-	Α	Α	- (2) 12	A	-	D	Α
Butylene	A	В	A	•	A		-		A	A	A	20	В		A	23 N	A	-	•			A	A	A		A	В	• <b>-</b> 0		D	D	A
Butyl Acetate <sup>1</sup>	-	-	С	•	A	5 To	A	A	***	<b>(*</b>	A	_		D	A	100.00	A	-	É.		D	A	A	Α	175	D	В	D	D	В	D	A
Butyric Acid¹	В	В	Α	Α	В	Α	Α	С	_	D	-	Α	В	-	Α	Α	С	$\rightarrow$	D	-	Α	-	Α	D	-	D	D		D	В	-	Α
Calcium Bisulfate	С	D	Α	-	D	-	-		-	D	-	-	Α	Α	Α	-	-	Α	-	-	-	-	-	-	-	Α	Α	С	С	-	Α	Α
Calcium Bisulfide	4		В	•		A	A	С	•	•	•	97. <b>—</b> 4.3	A	in the	Α	Α	D	A	-	В	Α	10	A.	A	28 2	Α	A	32.2	70.0	D	*> 3	Α
Calcium Bisulfite	-	В	A	-		Α	Α	С	5	-	•	Α	A	•	A	A	*	A	1	9-4	A	1	-	Α	3_	Α	Α	ž.	Α		A	1.51
Calcium Carbonate	В	Α	Α	Α	С	Α	Α	С		D	-	-	Α	Α	Α	Α	A	Α	-	В	Α	-	Α	Α	-	Α	Α	-	Α	<u> </u>	Α	Α
Calcium Chlorate	-	В	Α	-	-	В	В	С	-	-	-	-	Α	Α	Α	-	-	Α	-	Α	-	-	Α	-	-	Α	-	-	Α		Α	Α
Calcium Chloride	C	A	D	С	C	Α	Α	В	-	С	-	A	A	Α	A	A	D	Α	В	В	A	A	Α	Α	В	A	A	В	D	A	Α	Α
Calcium Hydroxide	В	A	A	-	С	A	A	В	2.5	-	1	-	A	Α	A	A	В	A	***	В	A		Α	Α	A	A	Α	С	Α	Α	Α	Α
Calcium Hypochlorite	D	D	С	С	С	Α	В	D	-	D	-	Α	D	-	Α	Α	D	D	-	В	Α	-	Α	Α	-	Α	В	С	D	Α	С	Α
Calcium Sulfate	В	Α	Α	Α	В	Α	В	В	-	-	-	Α	Α	Α	Α	Α	Α	Α	С	В	A	Α	Α	Α	-	Α	Α	-	D	-	С	Α
Calgon		A	Α	-	-	Ī		С	ŝ.	D		*		1	_	Α	В	12 X	5	-	A	į	A	A		Α	Α	į	A	( ) i		A
Cane Juice <sup>2</sup>	-	A	A	-	В	•	+	В	С	Α	ı	40 to	A		3 <del>-</del> 3.	<b>4</b>	A	A	4	2	D	_	Α	Α	संबंध की होते पर्य	1/4 et 3/5 et	Α	•	Α		A	A
Carbolic Acid (See Phenol)	-	-	-	-	•	•	-		-	- ]	-	-	•	-	-	-	-	-	-	-	-	-		-	-		-	-	-	-	-	-
Carbon Bisulfide <sup>2</sup>	В	Α	A	Α	Α	-	-	С	-	В	-	-	D	D	-	-	Α	Α	-	-	D	-	Α	Α	Α	A	D	-	D	D	D	Α
Carbon Dioxide (wet)	-	A	A	-1	С	1	Α	С	С	С	1			Ŧ	A	Ī	20 B	Ы	5 TA	3	-		A	A	-	4		25 <u>.</u> 27 25. 23	-		100	-
Carbon Disulfide <sup>2</sup>	-	В	A	-	С	•	•	С	С	В	C		D	υ	A	D	A	A		۵	D	A	A	В	<b>34</b> %	A	D	5 3 5.4. 3	D	D	D	A
Carbon Monoxide	-	Α	Α	-	Α	-	-	-	-	-	-	-	Α	•		В	Α	Α	-	В	Α	-	Α	A	-	Α	Α	В	В	Α	С	Α
Carbon Tetrachloride <sup>2</sup>	В	В	В	Α	С	Α	Α	С	Α	С	D	Α	ပ	ပ	Α	D	Α	Α	D	D	D	С	Α	Α	Α	Α	С	С	D	-	D	С
Carbonated Water	В	A	A	A	Α	1	-	В	-	D	Ι		A	-		Α	Α	A	100	П	A	100	Α	Α	1 SE 1	A	A	. <u> </u>	Α	Α	H	A
Carbonic Acid	В	A	В	A	A		Α	В	-	D		Α	A		Α	Α	Α	Α	9	В	A	3 85 4 70*	A	A	. 2	A	В	В	A	Α	Α	A
Catsup	-	A	Α	Α	D	-	-	С	-	D	-	-	Α	-	-	-		Α	В	-	Α	-	Α	Α	-	Α	Α	-	С	-	-	Α
Chloracetic Acid <sup>2</sup>	D	_	_	D	С	A	Α	D		D	-	D	Α	D	Α	-	D	D	-	D	D	-	Α	Α	-	D	D	-	D	В	D	В
Chloric Acid		D		-		y <b>-</b> 25	- N	65 S	-			-	D		A	2. 0	26						10	83 <u>.</u> 100	1,12	9 22 • • • • •	D	-	D	in Too	, ( <b>-</b> 6,)	D
Chlorinated Glue	200 97 200 94		A		D		•	С	E 0	D	10 AG			2.0		С	-44	С	D	44	12 f)	1.		A	Ų.	Α	С		D	В	D	A
Chlorine, Anhydrous Liquid	١.		D	D	D			D	-	С	-	-	D	В	Α	-	-	D	-	D	D	С	Α	D	-	Α	D	-	-	В	D	В
Chlorine (dry)	В	A	A	-	D	-	$\overline{}$	_	В	A	-	-	-	-	A		_		_	-	_	c	A	A	-	D	-	-	D	-	D	D
	-	2.000	dia make	W 333							000	Sec. 45				2.00	100		60 16	30.00			1000 1000	92.30	100.00	222.00	-			$\vdash$		22 (2
Chlorine Water	D		D		n.	A	В	O I	D	ים י	4.0	A	A	-	Α	C	80 400	D	400	323	D	C	C	A	200	A	D	C	D	300 4	on evolution and the	40.00

A—No effect—Excellent
B—Minor effect—Good
C—Moderate effect—Fair
D—Severe effect—Not Recommended

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.