

# **Chemical Resistance Guide**

## **Thermoplastic Valves**





This chemical resistance manuals is the resolt of own evaluation based on immersion tests, literrature and accumulated field experience.

The results listed are to be used as reference material only. No recommendation or pressure, temperture, stress, period of time, vibration and other folow related parameters. It is suggested that trial installations or test specimens be evaluated under actual process conditions.

(Note)

So far as usage of PTFE is concerned, it should be considered that PTFE has greayer permeability than other plastics when in contact with aggressive such as chlorine gas, nitric acid, hydrochloric acid and so forth.

#### 《MARKS》

$\bigcirc$ Little or No effect
○······ Slight effect
$\bigtriangleup$ Noticeable effect
× ····· Severe effect
Blank space Not confirmed or no actual result
Pure Indicating 100% of solution
Satu The term "Satu" indicates a concentration such that the solution is saturated at every
working temperature.
U-PVC ············Unplasticized Polyvinylchloride
C-PVC ······Chlorinated Polyvinylchloride
PP ······Polypropylene
PVDF ······Polyvinylidene Fluoride
PTFE ······Polytetrafuoroethylene
FKM ······Fluorocarbon Rubber
EPDM ······Ethylene Propylene Diene Rubber
NBR ······Nitrile Rubber
IIR ······Butyl Rubber
CSM ······Chlorosulfonyl Polyethylene Rubber



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Ethylene chloride	12	
Ethylene diamine	12	(L)
Ethylene glycol	12	Lactic acid
		Lead acetate
(F)		Lead chloride
Ferric chloride	13	Lead nitrate
Ferric hydroxide	12	Lead sulfate
Ferric nitrate	13	Light oil
Ferric sulfate	13	Linseed oil
Ferrous chloride	12	
Ferrous hydroxide	13	(M)
Ferrous nitrate	13	Magnesium ca
Ferrous sulfate	13	Magnesium cł
Fluoroboric acid	13	Magnesium hy
Fluosilicic acid	13	Magnesium ni
Formaldehyde	14	Magnesium su
Formic acid	14	Maleic acid
Fruit juice	14	Malic acid
Fuming sulfuric acid	22	Mercuric chlo
Furfuryl alcohol	14	Mercuric cyan
		Mercuric nitra
(G)		Mercuric sulfa
Gasoline- leaded	14	Mercurous nit
Gasoline- sour	14	Mercury
Gasoline- unleaded	14	Methane
Gelatin&Glue	14	Methyl acetate
Glacial	1	Methyl alcoho
Glycerol	15	Methyl bromi
		Methyl chlorid
(H)		Methyl ethyl l
Heptane	15	Morpholine
Hexane	15	
Hydrobromic acid	15	(N)
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Hydrogen	16	Nickel acetate
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Mercury	20
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(N)	
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Propane	26	Tricresyl phosphate	33
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(S)			
Silicon oil	26	(U)	
Silver cyanide	26	Urea	33
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Sodium hydrogen sulfate	27	Zinc chloride	34
Sodium hydroxide	28	Zinc nitrate	34
Sodium hypochlorite	28,29	Zinc sulfate	34
	I	•	



		Mate	erial		Pla	stic			]	Elast	ome	r		
		Τe	emp.	U	С	_	Р	Р	F	Е	N	T	C	
Chambach	emicals Concentr Formula	ration	°C	U P V C	C P V C	P P	P V D F	P T F E	F K M	E P D M	N B R	I	C S	
Chemicals	Formula	(%)	-	Ċ	Ċ							R	M ×	
			20	×	×	0	×	0		0	×	0	×	
			<b>40</b> <b>60</b>			$\bigcirc$		0	×	$\bigcirc$		0		
		Pure	80					0						
			100					0						
			120					0						
Acetaldehyde	CH3CHO		20	×	×	$\bigcirc$	×	0	0	$\bigcirc$	×	0	×	
			40			0		0	$\overline{\mathbf{O}}$	$\bigcirc$		0		
		40	60			$\bigcirc$		0	$\triangle$	$\bigcirc$		Ô		
		40	80			Õ		Ô	×	Õ				
			100					Ô						
			120					Ô						
			20	0	$\bigcirc$	$\bigcirc$	0	Ô	$\bigcirc$	$\bigcirc$	0	0	0	
			40	0	$\bigcirc$	Ô	0	0	0	$\bigcirc$		Õ	$\triangle$	
		10	60	0	$\bigcirc$	$\bigcirc$	0	0	$\triangle$	0		Ō	×	
		10	80		$\bigcirc$	Ô	0	0	×					
			100				$\bigcirc$	$\bigcirc$						
Acetic acid CH <sub>3</sub> COOH			120				0	0						
Acetic acid	CH3COOH		20	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigtriangleup$	0	×	×	×	
			40	0	0	$\bigcirc$	$\bigcirc$	0	×					
		50	60	0	$\bigtriangleup$	$\bigcirc$	$\bigcirc$	$\bigcirc$						
		50	80		×		0	$\bigcirc$						
			100				0	$\bigcirc$						
			120					$\bigcirc$						
			20	×	×	$\bigcirc$	$\bigcirc$	$\bigcirc$	×	×	×	×	×	
				40			$\bigcirc$	$\bigcirc$	$\bigcirc$					
Acetic acid	СН3СООН	99	60			$\bigtriangleup$	0	$\bigcirc$						
(Glacial)	CH3COOH	99	80					$\bigcirc$						
			100					$\bigcirc$						
			120					$\bigcirc$						
			20	×	×	$\bigcirc$	$\bigcirc$	$\bigcirc$	×	$\bigtriangleup$	×	$\bigcirc$	×	
			40			$\bigtriangleup$	$\triangle$	$\bigcirc$		×		$\bigtriangleup$		
Acetic anhydride	(CH <sub>3</sub> CO) <sub>2</sub> O	Pure	60			×	×	0				×		
. icetic unity unite		I UIC	80					0						
			100					0						
			120					0						
			20	×	×	0	×	0	×	$\bigcirc$	×	0	$\triangle$	
			40			O		0		0		0	×	
Acetone	CH <sub>3</sub> COCH <sub>3</sub>	Pure	60			$\bigtriangleup$		0						
Acetone			80					0						
			100					0						
			120					0						
			20	0	0	0	0	0	0	0	0		O	
			40	0	0	0	0	0	0	0	0			
Adipic acid	HOOC(CH2)4COOH	Satu.	60	0	$\bigcirc$	$\bigcirc$	0	0	0	0	O			
-			80		0	0	0	0	$\bigcirc$	0				
			100				0	0	0					
			120				$\bigcirc$	$\bigcirc$						

		Mat	erial		Pla	stic		Elastomer						
		Te	emp.	Ų	Ċ	р	Р	P	F	E	N B	Ι	С	
Chemicals	micals Concent Formula	ration (%)	°C	P V C	C P V C	P P	P V D F	P T F E	F K M	E P D M	B R	I I R	C S M	
			20	$\bigcirc$		$\bigcirc$	0	0	0		0			
			40			$\bigcirc$	0	0	$\bigcirc$		0			
Allyl alcohol			60			0	0	O	$\bigcirc$		0			
7 myr arconor	CH2=CHCH2OH		80				0	0	0					
			100					0						
			120					$\bigcirc$						
			20	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	
			40	$\bigcirc$	$\bigcirc$	$\bigcirc$	O	O	$\bigcirc$	$\bigcirc$	O	O	$\bigcirc$	
Aluminum chloride	AlCl3	Satu.	60	0	0	$\bigcirc$	O	O	$\bigcirc$	$\bigcirc$		O	$\bigcirc$	
	Alcij	Jaiu.	80		$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$				
			100				$\bigcirc$	$\bigcirc$	$\bigcirc$					
			120				0	O						
			20	$\bigcirc$	0	0	0	0	0	0	0	0	$\bigcirc$	
			40	0	0	0	0	0	0	0	0	0	0	
Aluminum sulfate	Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub>	Satu.	60	0	0	0	0	0	0	$\bigcirc$	0	$  \bigcirc$	0	
		Sura	80		0	$\bigcirc$	0	0	0					
			100				0	0						
			120				0	0						
			20	0	$\triangle$	0	0	0	×	0	0	0		
			40	0	$\triangle$	0	0	0		0	0	0		
Ammonia gas	NH3	100	60	0	×	0	0	0		0	$  \bigcirc$	0		
			80		×	0	0	0		0		0		
			100				0	0						
			120				0	0						
			20	0	$\triangle$	0	0	0	Ô	0	$\bigcirc$	0	0	
			40	0	$\triangle$	0	0	0	$\triangle$	0	$\left  \begin{array}{c} 0 \\ 0 \end{array} \right $	0	0	
		10	60	0	×	$\bigcirc$	0	0	×	0	$ \circ $	0	0	
			80		×	0	0	$\bigcirc$		0		0	$\bigcirc$	
			100				0	0						
Ammonia water	NH4OH		120		~		0	0						
			20	$\bigcirc$	×	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$		$\bigcirc$	$\bigcirc$	
			<b>40</b> <b>60</b>	$\bigcirc$	××	00	0	0	×	0	×	0	0	
		40	<u> </u>	$\vdash$	×			0						
			100			$\bigcirc$	$\left  \begin{array}{c} 0 \\ 0 \end{array} \right $	0						
			120				$\left  \begin{array}{c} 0 \\ 0 \end{array} \right $	0						
			20	0	$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$	
			40	0	0	0	0	0	0	0	0	0	0	
			60	0	0	0	0	0	0	0	0	0	0	
Ammonium acetate	CH <sub>3</sub> COONH <sub>4</sub>	Satu.	80		0	0	0	0	0	0	0	0	0	
			100				0	0	0					
			120				0	0						
			20	0	0	$\bigcirc$	0	0	$\bigcirc$	$\bigcirc$	0	0	0	
			40	0	0	0	0	0	0	0	0	0	0	
Ammonium oo-keeset			60	0	0	0	0	0	0	0	0	0	0	
Ammonium carbonate	(NH4)2CO3	Satu.	80		0	0	0	0	0	0				
			100				0	0	0					
			120				Ô	Ô						



		Mat	erial		Pla	stic			J	Elast	Elastomer							
Chemicals	emicals Formula	Te	emp.	U P V C	C P V C	P P	P V D F	P T F E	F K M	E P D M	N B R	I I R	C S M					
Chemicals	Toriniula	(70)	20	<u>с</u>	<u>с</u>	$\bigcirc$	<b>F</b>		$\bigcirc$	$\bigcirc$			$\bigcirc$					
			$\frac{20}{40}$	0	0	0	0	0	$\bigcirc$	0	0	0	0					
			60	0	0	0	0	0	0	0	0	0	0					
Ammonium chloride	NH4Cl	Satu.	80		0	0	0	0	0	0	0							
			100				$\bigcirc$	$\bigcirc$	$\bigcirc$									
			120				$\bigcirc$	0										
			20	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	0					
			40	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	$\bigcirc$					
Ammonium nitrate	NH4NO3		60	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$					
7 miniomuni mirute	INH4INU3		80			$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$							
			100				$\bigcirc$	$\bigcirc$										
			120				0	0										
			20	0	0	0	0	0	0	0	0	0	0					
			40	0	0	0	0	0	0	0	0	0	0					
Ammonium phosphate	(NH4)3PO4		60	0	0	0	0	0	0	0	0	0	0					
			80		0	$\bigcirc$	0	0	O	0		0	O					
			100				0	0										
			120				0	0										
			20	0	0	0	0	0	0	0	0	0	0					
			40	0	0	0	0	0	$\bigcirc$	0	$\bigcirc$	0	$\bigcirc$					
Ammonium sulfate	(NH4)2SO4	Satu.	60	O	$\bigcirc$	0	0	0	$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$					
			80		O	O	0	0	O	Ô	0	0	O					
			100 120				0	0										
			20	0	$\bigcirc$	$\bigcirc$	0	0	×	$\bigcirc$	×		$\bigcirc$					
		Satu.	40	0		0	0	0	^	0	^		0					
			60	$\bigcirc$		0	0	0		0			0					
Ammonium sulfide	(NH4)2S		80			0	0	0										
			100				0	0										
			120				0	0										
			20	×	×	×	0	0	×	$\bigcirc$	×		×					
			40				0	0		$\triangle$								
Amyl acetate	CH-COOC H		60				0	Ô										
Amyracelale	CH <sub>3</sub> COOC <sub>5</sub> H <sub>11</sub>	Pure	80				0	0										
			100				$\triangle$	0										
			120															
			20	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$					
			40	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$					
Amyl alcohol	CH3(CH2)3CH2OH	Pure	60	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	O					
· -			80		0	0	0	0	0	0		O	O					
			100				0	0										
			120				0	0										
			20	$\triangle$	$\triangle$	0	0	0	0	Ô	×	Ô	$\triangle$					
			40	×	×	Ô	$\left  \begin{array}{c} 0 \\ 0 \end{array} \right $	0	0	$\triangle$			$\triangle$					
Aniline	C6H5NH2	Pure	60			$\triangle$	Ô	0	0	×		×	×					
	C6H5NH2 Pt		80			×		0										
			100				×	$\bigcirc$										
			120					$\bigcirc$										

		Mat	erial		Pla	stic			1	Elast	ome	r		
Chemicals	micals Concentr Formula	Te ation (%)	emp.	U P V C	C P V C	P P	P V D F	P T F E	F K M	E P D M	N B R	I I R	C S M	
Chemicais	Tormula	(/0)	20	$\bigcirc$	C	$\bigcirc$	0	0		IVI			1•1	
			40	0		0	0	0						
Aniline hydrochloride	C6H5NH2 · HCl	Pure	60 80	$\bigtriangleup$		0 ×	0	0						
			100			^								
			120											
			20	0		$\bigcirc$	×	0	O	0				
			40	0		0		0	0					
Antimony trichloride	SbCl <sub>3</sub>	Satu.	60	0		0		0	0					
			80 100			0		0	0					
			120					$\left  \begin{array}{c} 0 \\ 0 \end{array} \right $						
			20	$\triangle$	$\triangle$	$\triangle$	0	0	$\triangle$	×	×	0	0	
			40	$\bigtriangleup$	$\bigtriangleup$	$\bigtriangleup$	0	Ô				$\triangle$	$\triangle$	
Aqua regia	HNO3+3HCl		60			×	0	0						
	invog i sinci		80				0	0						
			100				$\bigcirc$	$\bigcirc$						
			120 20	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	$\bigcirc$	
			40	0	0	0	0	0	0	0	0	0	0	
Arcoric acid			60	$\triangle$	0	0	0	0	0	0	0	0	0	
Arsenic acid	H3AsO4	Satu.	80		$\triangle$	$\triangle$	0	0	0	0	0			
			100				0	0	0					
			120				0	0						
			20	0	0	$\bigcirc$	0	0	0	0	0	0	0	
			<b>40</b> <b>60</b>	0	0	0	0	0	0	0	0	0	0	
Barium carbonate	BaCO <sub>3</sub>	Satu.	Satu.	80		0	$\bigcirc$	0	$\bigcirc$	0	$\bigcirc$	0	0	0
			100				0	0	0					
			120				0	0	Ô					
			20	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$	
			40	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	O	$\bigcirc$	$\bigcirc$	0	0	0	
Barium chloride	BaCl <sub>2</sub>	Satu.	60	0	0	0	0	0	0	0	0	0	0	
			80		0	0	0	0	0	$\bigcirc$	0	0	0	
			100				$\bigcirc$	$\bigcirc$	$\bigcirc$					
			120 20	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	0	0	$\bigcirc$	0	0	$\bigcirc$	
			40	0	0	$\bigcirc$	0	$\odot$	0	0	0	0	0	
Darium hydroxida	D (OII)		60	0	0	0	0	0	0	0	0	0	0	
Barium hydroxide	Ba(OH)2	Satu.	80		0	0	0	Ô	Ô	Ô	0	0	0	
			100					0	$\bigcirc$					
			120		_			0	0					
			20	0	0	0	0	0	0	0	0	0	0	
			40	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	$\bigcirc$	$\bigcirc$	
Barium nitrate	Ba(NO3)2	Satu.	60 80	O	0	0	0	0	0	0	0	0	0	
	Bartum merate Ba(NO3)2 S		100				0	0	0					
			120				0		0					



			erial		Pla	stic		Elastomer						
	- 1	Te	emp.	U	C	р	P	P	F	E	N B	I	C S	
Chemicals	emicals Concent Formula	ration (%)	°C	U P V C	C P V C	P P	P V D F	P T F E	F K M	E P D M	B R	I R		
<u> </u>		(/0)	20	$\bigcirc$	$\bigcirc$	0	0	Ô	$\bigcirc$	$\bigcirc$	0	0	C	
			40	0	$\bigcirc$	0	0	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	C	
			60	0	Ô	Ô	0	Ô	Ô	Ô	$\bigcirc$	Ô	C	
Barium sulfate	BaSO4	Satu.	80		$\bigcirc$	Ô	0	0	Ô	Ô	Ō	0	Ċ	
			100				0	0	0					
			120				0	0	Ô					
			20	0	$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$	$\bigcirc$	0			
			40	0	$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$	$\bigcirc$	0			
Barium sulfide			60	0	$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$	$\bigcirc$			1	
Barium sunide	BaS	Satu.	80		$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$					
			100				0	$\bigcirc$	$\bigcirc$					
			120				0	0	Ô					
			20	0	$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	C	
			40	0	$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$	$\bigcirc$	0	$\bigcirc$	C	
_			60	0	$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$	$\bigcirc$	0	0	6	
Beer			80		$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$	$\bigcirc$	0	$\bigcirc$	0	
			100				0	0						
			120				0	0						
			20	×		$\bigcirc$	0	0	$\bigtriangleup$	$\bigtriangleup$	×		>	
			40				0	0						
Benzaldehyde			60				0	0						
	C6H5CHO	Satu.	80					0						
			100					0						
			120											
			20	$\bigtriangleup$	$\bigtriangleup$	0	0	0	$\bigcirc$	×	×	×	>	
			40	×	×	$\bigtriangleup$	0	$\bigcirc$	0					
Bonzono	C-II-		60				0	$\bigcirc$	0					
Benzene	C <sub>6</sub> H <sub>6</sub>	Pure	80				$\triangle$	$\bigcirc$	0					
			100				×	0						
			120					0						
			20	0	$\bigcirc$	$\bigcirc$	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	0			
			40	$\bigcirc$	0									
Benzoic acid	Call-COOL	Dura	60	0	$\bigcirc$		0	0	$\bigcirc$	$\bigcirc$	0			
belizoie acia	C <sub>6</sub> H <sub>5</sub> COOH	Pure	80		$\bigtriangleup$		0	0	$\bigcirc$					
			100				$\bigcirc$	$\bigcirc$	0					
			120				$\bigcirc$							
			20			$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	×	$\bigcirc$	>	
			40			$\bigcirc$	O	O	$\bigcirc$	0		$\triangle$		
Benzyl alcohol	C6H5CH2OH	Deres	60			$\bigcirc$	0	0	$\bigcirc$	$\triangle$				
		Pure	80				0	$\bigcirc$	0					
			100				0	$\bigcirc$	$\bigcirc$					
Borax			120				0	$\bigcirc$						
			20	0	$\bigcirc$	$\bigcirc$	0	O	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	(	
	Na2B4O7 · 10H2O Sat			40	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	$\bigcirc$	(
		Sata	60	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\triangle$	$\bigcirc$	(	
μυταλ		Satu.	80		$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$		×			
			100				0	O						
			120				0	0					1	

		Mate	erial		Pla	stic		Elastomer						
Ch	emicals Concentr Formula	Te ration	emp.	U P V C	C P V C	P P	P V D F	P T F E	F K M	E P D M	N B	I I	C S	
Chemicals	Formula	(%)	°C								R	R	M	
			20	0	0	0	0	0	0	0	0	0	0	
			40	0	0	0	0	0	0	0	0	0	0	
Boric acid	H3BO3	Satu.	60 80		0	0	0	0	0	0	0	$\overline{0}$	0	
			100		$\cup$		0	0	0	$\cup$				
			120				0	0						
			20	0	$\bigtriangleup$	$\triangle$	0	0	0	×	×	×	×	
			40	Õ		×	Ô	Ô	$\bigcirc$					
Bromine water			60				0	0						
bronnne water		Satu.	80				0	0						
			100				0	$\bigcirc$						
			120				0	$\bigcirc$						
			20	0	0		0	0	0	×	0	×	0	
			40	0	0		0	0	0		$\triangle$		0	
Butadiene	CH2=CHCH=CH 2	Gas	60	0			0	0	O				$\triangle$	
			80				0	0						
			100				0	0						
			120				0	0		~		~		
			20	0	$\bigcirc$	0	$\bigcirc$	0	0	×	$\bigcirc$	×	O	
			<b>40</b> <b>60</b>		0	0	0	0	0		0			
Butane	CH3(CH2)2CH3	Gas	80		0	0	0	0	0					
			100					0						
			120					0						
			20	$\triangle$	$\triangle$	$\triangle$	0	0	×	0	×	$\overline{\mathbf{O}}$	×	
			40	×	×	×	$\overline{\mathbf{O}}$	0		$\bigtriangleup$		$\triangle$		
Dutul acatata		_	60				×	0		×		×		
Butyl acetate	CH <sub>3</sub> COOC <sub>4</sub> H <sub>9</sub>	Pure	80											
			100											
			120											
			20	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	O	$\bigcirc$	
			40	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	
Butyl alcohol	C4H9OH	Pure	60	0	0	0	0	0	$\bigtriangleup$	0	0	0	0	
,	C411,011	1 ure	80		0	0	0	0		0		0	0	
			100				0	0						
			120				0	0				.,		
	OH		20	$\bigtriangleup$	$\bigtriangleup$	$\bigcirc$	$\bigcirc$	0	$\bigtriangleup$	×	×	×	×	
			<b>40</b> <b>60</b>			0	0	0						
Butyl phenol			80					0						
			100					0						
	C(CH <sub>3</sub> ) <sub>3</sub>		120					0						
		1	20	0	0	$\bigcirc$	0	0	0	0	×		0	
			40			0	0	0	$\bigtriangleup$					
Dutyria acid			60			0	0	0	×					
Butyric acid	CH3CH2CH2COOH	Pure	80			0	0	0						
			100				0	0						
			120				$\bigcirc$	$\bigcirc$						



		Mat	erial		Pla	stic			]	Elast	ome	r		
Chemicals	micals Concentr Formula	Te ation (%)	emp. °C	U P V C	C P V C	P P	P V D F	P T F E	F K M	E P D M	N B R	I I R	C S M	
			20	Ô	Õ	0	0	0	0	$\bigcirc$	$\bigcirc$	0	0	
			40	O	$\bigcirc$	$\bigcirc$	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	
Calcium carbonate	CaCO3	Satu.	60	$\bigcirc$	$\bigcirc$	$\bigcirc$	O	O	$\bigcirc$	$\bigcirc$	0	O	$\bigcirc$	
	Cacos	Satu.	80		$\bigcirc$	$\bigcirc$	O	$\bigcirc$	$\bigcirc$					
			100				$\bigcirc$	$\bigcirc$	$\bigcirc$					
			120				$\bigcirc$	$\bigcirc$	$\bigcirc$					
			20	O	O	O	0	0	O	$\bigcirc$	$\bigcirc$	0	O	
			40	0	0	0	0	0	0	0	0	0	0	
Calcium chloride	CaCl <sub>2</sub>	Satu.	60	O	0	0	0	0	0	0	0	0	0	
			80		0	0	0	0	0	$\bigcirc$	$  \bigcirc$	0	$\bigcirc$	
			100				0	0	O					
			120				0	0						
			20	0	0	0	0	0	0	0		0	0	
			40	0	0	0	0	0	0	0		0	0	
Calcium hydroxide	Ca(OH)2	Satu.	60	0	$\bigcirc$	0	0	0	0	0	Ô	0	0	
			80		0	$\bigcirc$	0	0	0	O		0	$  \bigcirc$	
			100			0	0	0	0					
			120	0	$\bigcirc$	$\bigcirc$	0		$\bigcirc$	$\bigcirc$				
			$\begin{array}{ c c }\hline 20\\\hline 40\end{array}$	0	0	0	0	0		$\left  \begin{array}{c} 0 \\ 0 \end{array} \right $				
Calcium hypochlorite			<u>40</u> 60	$\circ$		$\circ$	0	0	0	$\square$				
	Ca(ClO)2	Satu.	80		$\triangle$	$\square$	0	0	$\overline{0}$	$\bigtriangleup$				
			100				$\overline{0}$	0						
			120											
			20	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	$\bigcirc$	
				40	0	0	0	0	0	0	0	0	0	
			60	$\bigcirc$	0	0	0	0	0	0	0	0	0	
Calcium nitrate	Ca(NO <sub>3</sub> ) <sub>2</sub>	Satu.	80		0	0	0	0	0	0	0			
			100				0	0	0					
			120				0	0						
			20	0	0	0	0	0	0	0	$\bigcirc$	0	$\bigcirc$	
			40	0	0	0	0	0	0	0	0	0	0	
Coloine oulfate	~ ~~		60	0	0	0	0	0	0	0	0	0		
Calcium sulfate	CaSO <sub>4</sub>	Satu.	80		0	0	0	0	0	0	0			
			100				0	0	0					
			120				0	0						
			20	0	$\bigcirc$	$\bigcirc$	0	0	0	$\bigcirc$	$\bigcirc$	0	$\bigcirc$	
			40	O	$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$	$\bigcirc$	0	0	0	
Carbon dioxide(wet)	$CO_{2}$		60	0	0	0	0	0	0	$\bigcirc$	0	0	0	
	CO2		80		$\bigcirc$	0	0	0	0	$\bigcirc$	0	0	0	
			100				0	0	$\bigcirc$					
			120				$\bigcirc$	$\bigcirc$	$\bigcirc$					
			20	0	$\bigcirc$	$\bigcirc$	O	0	0	$\bigcirc$	$\bigcirc$	0	$\bigcirc$	
			40	O	$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	$\bigcirc$	
Carbon dioxide(dry)	CO <sub>2</sub>		60	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	$\bigcirc$	
Survey and and (ur y)			80		$\bigcirc$	$\bigcirc$	O	0	0	O	$\bigcirc$	0	0	
			100				$\bigcirc$	0	$\bigcirc$					
			120				$\bigcirc$	$\bigcirc$	$\bigcirc$					

		Mate	erial		Pla	stic			J	Elast	ome	r	
Che	emicals Concentra Formula	ation	emp.	U P V C	C P V C	P P	P V D F	P T F E	F K M	E P D M	N B	I I	C S
Chemicals	Formula	(%)	°C								R	R	M
			20	$\triangle$	$\triangle$	×	O	0	0	×	$\triangle$	×	×
			40		$\triangle$			0	$\bigcirc$				
Carbon disulfide	CS <sub>2</sub>	Pure	60	×	×			0			×		
			80					0	×				
			100 120										
			$\frac{120}{20}$	$\triangle$	$\triangle$	×	$\bigcirc$	$\odot$	$\bigcirc$	×	×	×	×
			40	×	×		0	0		~			~
			60				0	0					
Carbon tetrachloride	CCl4	Pure	80				0	0					
			100				0	0					
			120					0					
			20	0	0	$\bigcirc$	0	0	×	$\bigcirc$	0	0	$\bigcirc$
			40	0	0	0	0	0		0	$\overline{0}$	0	0
			60	0	0	0	0	0		0	$\triangle$	0	0
Caustic potash	КОН	25	80		$\bigcirc$	0	$\triangle$	$\bigcirc$		0	×		
			100				×	0					
			120										
			20	0		×	0	0	$\bigcirc$	$\bigcirc$	$\triangle$		$\bigcirc$
			40	Ô			0	Ô		$\bigcirc$			$\bigcirc$
Chloric acid			60	Õ			Ô	Ô					
Chloric acid	HClO3	20	80				0	$\bigcirc$					
			100										
			120										
			20	$\bigcirc$	$\bigcirc$	×	$\bigcirc$	$\bigcirc$	×	×	×	×	×
			40	0	0		$\bigcirc$	$\bigcirc$					
Chloring gas(Wat)	Cla		60	0	$\bigtriangleup$		$\bigcirc$	$\bigcirc$					
Chlorine gas(Wet)	Cl <sub>2</sub>		80				$\bigcirc$	$\bigcirc$					
			100				$\bigcirc$	$\bigcirc$					
			120				$\bigcirc$	$\bigcirc$					
			20	$\bigcirc$	$\bigcirc$	×	$\bigcirc$	$\bigcirc$	0	$\bigcirc$	×	×	×
			40	$\bigcirc$	$\bigcirc$		$\bigcirc$	$\bigcirc$	$\bigtriangleup$	×			
Chlorine gas(Dry)	Cl <sub>2</sub>		60	O	$\bigcirc$		0	0	×				
Survey and the second s			80				O	$\bigcirc$					
			100				O	0					
			120				$\bigcirc$	$\bigcirc$					
			20	$\bigcirc$	$\bigcirc$	$\bigtriangleup$	O	O	$\bigtriangleup$	$\bigcirc$	×	×	$\bigtriangleup$
			40	0	0	×	0	0	×	$\bigtriangleup$			
Chlorine water		400	60	0	0		0	0					
		ppm	80				0	0					
			100				0	0					
			120				0	0					
			20	0	0	×	0	0	0	0	×	×	×
			40	0	0		0	0	0	×			
Chromic anhydride	CrO3	20	60	0	$\bigtriangleup$		0	0	0				
			80				0	0	0				
			100				0	0	$\triangle$				
			120										



		Mat	erial		Pla	stic			]	Elast	ome	r	
Chamier le Che	emicals Concent	ration	emp. °C	U P V C	C P V C	P P	P V D F	P T F E	F K M	E P D M	N B	I I	C S
Chemicals	Formula	(%)	-								R	R	M
			20	$\triangle$	$\triangle$	×	0	0	0	×	×	×	×
			40	×	×		0	0	$\bigcirc$				
Chromic anhydride	CrO <sub>3</sub>	50	<u>60</u>				$\bigcirc$	0	$\bigcirc$				
			80					0					
			100 120										
			20	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	C
			40	0	0	0	0	0	$\bigcirc$	0	0	0	
			60	0	0	0	0	0	0	0	0	0	
Copper chloride	CuCl <sub>2</sub>	Satu.	80		0	0	0	0	0	0	0	0	
			100				0	0	0				
			120				0	0					
			20	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	6
			$\frac{20}{40}$	0	0	0	0	0	0	$\bigcirc$	0	0	
			60	$\circ$	0	$\circ$	0	0					
Copper fluoride	CuF	Satu.	80				0	0					-
			100				0	0					-
			120				0						
			20	0	$\bigcirc$	$\bigcirc$	0	0	0	0	0	0	6
			$\frac{20}{40}$	0	0	0	0	0	0	0	0	0	
			60	0	0	0	0	0	0	0	0	0	
Copper nitrate	Cu(NO3)2		80			0	0	0	0	0	0	0	
			100				0	0	0				
			120				0	0					
			20	0	$\bigcirc$	$\bigcirc$	0	0	0	$\bigcirc$	0	0	
			40	0	0	0	0	0	0	0	0	0	
			60	0	0	0	0	0	$\bigcirc$	0	0	0	
Copper sulfate	CuSO <sub>4</sub>	Satu.	80		0	0	0	0	0	0	0	0	
			100				0	0	0				
			120				0	0					-
			20	0	$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$	0	$\bigcirc$	0	
			40	0	0	0	0	0	0	$\overline{\mathbf{O}}$	0	0	
			60	0	0	0	0	0	$\bigcirc$		0		$\vdash$
Corn oil			80				0	0					$\vdash$
			100				0	0					-
			120				0	0					$\vdash$
			20	$\triangle$	×	$\bigcirc$	0	0	0	×	×	×	
			40	_		0	0	0	0				
			60				0	0	$\overline{\mathbf{O}}$				;
Cresol	C6H4(CH3)OH	Pure	80				0	0					+
			100				$\triangle$	0					
			120										+
			20	×		$\bigcirc$	0	0	0	0	$\triangle$		;
			$\frac{20}{40}$			<u> </u>	0	0					$\vdash$
			60				0	0					$\vdash$
Croton aldehyde	CH3CH=CHCHO	Pure	80				$\overline{0}$	0					$\vdash$
			100				$\triangle$	0					$\vdash$
		1	TAA				L			1			-



		Mate	erial		Pla	stic			J	Elast	ome	r	
Chemicals	emicals Concent Formula	tration	emp. °C	U P V C	C P V C	P P	P V D F	P T F E	F K M	E P D M	N B R	I I R	C S M
		(%)	20	C X	C X	$\bigtriangleup$	F	E	$\bigcirc$	M ×		×	
			40			×	0	0	0				
Crealeland			60				0	0					
Cyclonexane	C6H12	Pure	80				0	0					
			100				0	$\bigcirc$					
			120				$\bigcirc$	0					
			20	×	×	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigtriangleup$		
			40			0	$\bigcirc$	$\bigcirc$	$\bigcirc$				
Cyclohexanol	C6H11OH	Pure	60			$\bigtriangleup$	0	O					
	connon	1 ure	80			×	0	O					
			100				$\triangle$	0					
	ohexanone C <sub>6</sub> H10O Dextrin (C <sub>6</sub> H10O <sub>5</sub> )n Pextrose C <sub>6</sub> H12O <sub>6</sub>		120										
	Iohexanol C6H11OH   Ohexanone C6H10O   Oextrin (C6H10O5)n   extrose C6H12O6   utyl ether C4H9OC4H9		20	×	×	$\bigcirc$	0	0	×	$\bigtriangleup$	×		
	hexanone C6H10O extrin (C6H10O5)n		40				$\bigcirc$	$\bigcirc$					
Cyclohexanone	exanone C <sub>6</sub> H <sub>10</sub> O	Pure	60			×	0	0					
			80 100					0					
			100										
			20	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	$\bigcirc$	$\bigcirc$	$\bigcirc$		
			40	0	$\bigcirc$	$\bigcirc$	0	0	0	$\bigcirc$	0		
			60	0	0	0	0	0	0	$\bigcirc$	0		
Dextrin	(C6H10O5)n	Satu.	80			0	0	0	0	0	0		
			100				0	0	0				
			120				0	Ô					
			20	0	$\bigcirc$	$\bigcirc$	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	0
			40	0	$\bigcirc$	$\bigcirc$	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	0
Devtrose	CalliaOa		60	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Dexhose	С6П12О6		80		$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$	$\bigcirc$	$\bigcirc$		
			100				$\bigcirc$	$\bigcirc$	$\bigcirc$				
			120				$\bigcirc$	$\bigcirc$					
			20	×	×	$\bigtriangleup$	$\bigcirc$	$\bigcirc$	×	×	0	×	×
			40				0	0					
Dibutyl ether	C4H9OC4H9	Pure	60				$\triangle$	0					
			80				×	0					
			100										
			120								<u> </u>		
			20	×	×		0	0	0	×	×	×	×
			<b>40</b> <b>60</b>				0	0					
Dichlorobenzene	C6H4Cl2	Pure	80					0					
			100					0					-
			120					0					-
			20	×	×		$\bigcirc$	0	0	×	×	×	×
			40				0	0					+
			60				0	0					
Dichloroethylene	CH2=CCl2	Pure	80					Ô					
			100					0					
			120					Ô					



		Mate	erial		Pla	stic			]	Elast	ome	er	
Che	emicals Concent	Te	emp.	U P V C	C P V C	Р Р	P V D F	P T F E	F K M	E P D M	N B	I	C S
Chemicals	Formula		°C	C	C		D F		Â	M D	Ř	Ŕ	M
			20	×	×	$\bigcirc$	$\bigcirc$	$\bigcirc$		$\bigcirc$	×		
			40			0	$\bigtriangleup$	$\bigcirc$					
Diethylamine	(C2H5)2NH	Pure	60				×	$\bigcirc$					
	(C2113)21111	luit	80					$\bigcirc$					
			100					$\bigcirc$					
			120										
			20	×	×	$\bigtriangleup$	0	0	$\bigtriangleup$	$\bigtriangleup$			
			40			×	0	0					
Ethyl ether	C2H5OC2H5	Pure	60				$\triangle$	0					
		1 ur c	80				×	O					
			100					0					
			120										
	lic acid (HO2CCH2)2O		20	0	O	0	0	0	0	O	0		
			40	0		0	0	0					
Diglycolic acid	acid (HO <sub>2</sub> CCH <sub>2</sub> ) <sub>2</sub> O	Satu.	60			O	0	0					
			80				0	0					
			100					0					
			120										
			20	×	×	0	$ $ $\bigcirc$	0	×	$\triangle$	×		
			40			0		0					
Dimethyl amine	(CH3)2NH	Pure	60				×	0					
			80										
			100										
			120										
			20	×	×	0	×		0	O	×	0	×
			40			0		0					
Dimethylformamide	HCON(CH <sub>3</sub> ) <sub>2</sub>	Pure	60			0		0					
			80										
			100					0					
			120		~				~	~			
			20	×	×	$\bigcirc$	$\triangle$	0	×	×	×	×	×
			40			$\bigtriangleup$	△   ★	0					
Dioxane	C4H8O2	Pure	60 80										
			100 120										
			20	×	×	0	0	0	×	$\bigcirc$	×		×
			40			$\left  \begin{array}{c} 0 \\ 0 \end{array} \right $							<b>├^</b>
_			<u>40</u> 60										
Ethyl acetate	CH3COOC2H5	Pure	80					0					
			100					0					
			100										
			20	×	×		0		×	$\bigcirc$	×	0	×
			$\frac{20}{40}$				$\overline{\bigcirc}$			$\vdash$		$\vdash$	$\vdash$
			60										
Ethyl acrylate	H2CCHCOOC2H5	Pure	80				×						
			100					0					
			120				-						



			erial		Pla	stic			J	Elast	ome	r	
Ch	amicale Count	Te	emp.	U	C b	Р	P	P	F	E	N B	I	C S
Chemicals	emicals Concent Formula	ration (%)	°C	U P V C	C P V C	P P	P V D F	P T F E	F K M	E P D M	R	R	M
			20	0	$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	$\bigcirc$
			40	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	$\bigcirc$
Ethyl alcohol	C2H5OH	Pure	60	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Luiyr alconor	C2115011	rure	80		$\bigtriangleup$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
			100										
			120										
			20	×	×		0	$\bigcirc$	0	×		×	×
			40				0	0					
Ethyl benzene	C6H5C2H5		60				0	0					
			80					0					
			100					0					
			120					0					
			20	×	×		$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	$\bigcirc$	×
			40			×	0	0	0	O		0	
Ethyl chloride	C2H5Cl		60 80				0	0	$\bigcirc$			<u> </u>	
			100				0	0					
			120				0						
			20	×	×	0	0	0	$\bigcirc$	×	×	×	×
			40	~		×	0	0		~			
			60				0	0					
Ethylene chloride	ClCH <sub>2</sub> CH <sub>2</sub> Cl		80				0	0					
			100					0					
			120					0					
			20	×	×	0	×	0		$\bigcirc$	0		
			40					0					
Telesland diamina			60					Ô					
Ethylene diamine	NH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> NH <sub>2</sub>	Pure	80					Õ					
			100					$\bigcirc$					
			120										
			20	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	0
			40	0	$\bigcirc$	Ô	0	0	Ô	Ô	0	0	0
Ethylene glycol			60	0	$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$
	HOCH <sub>2</sub> -CH <sub>2</sub> OH	Pure	80		0	O	0	0	$\bigcirc$	$\bigcirc$	0	0	0
			100				$\bigcirc$	$\bigcirc$	$\bigcirc$				
			120				$\bigcirc$	$\bigcirc$					
			20	O	$\bigcirc$	$\bigcirc$	O	0	$\bigcirc$	$\bigcirc$	0	O	$\bigcirc$
			40	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Ferrous chloride	FeCl <sub>2</sub>	Satu.	60	0	$\bigcirc$	$\bigcirc$	0	0	0	$\bigcirc$	0	$\bigcirc$	O
	10012	Jatu.	80		O	O	0	0	0	0	0		
			100				0	0	0				
			120				0	0					
			20	0	0	0	0	0	0	0	0	0	0
			40	0	0	0	0	0	0	0	0	0	O
Ferric hydroxide	Fe(OH)3	Satu.	60	0	0	0	0	0	0	0	0		
			80		0	$\bigcirc$	0	0	0	$\bigcirc$	0		
			100				0	0					
			120				$\bigcirc$	$\bigcirc$					

		Mate	erial		Pla	stic			I	Elast	ome	r	
			emp.	U	Ċ	D	P	P	F	E	N B	I	C S
Chemicals	emicals Concentr Formula	ation (%)	°C	U P V C	C P V C	Р Р	P V D F	P T F E	F K M	E P D M	B R	I R	S M
			20	$\bigcirc$	$\bigcirc$	0	0	0	$\bigcirc$	0	0		
			40	0	$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$	$\bigcirc$	0		
Ferric nitrate			60	0	$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$	$\bigcirc$	0		
	Fe(NO3)3	Satu.	80		$\bigcirc$	0	$\bigcirc$	0	$\bigcirc$	$\bigcirc$	0		
			100				$\bigcirc$	$\bigcirc$	$\bigcirc$				
			120				$\bigcirc$	O					
			20	0	Ô	0	0	0	0	0	0	0	0
			40	0	0	0	0	0	0	0	0	0	0
Ferric sulfate	Fe2(SO4)3		<u>60</u>	0	0	0	0	0	0	0	0	0	0
			80		O	O	0	0	O	O		0	0
			100				0	0					
			120				0	$\bigcirc$		$\bigcirc$			
			$\frac{20}{40}$	0	0	00	0	0	0	0	0	0	0
			<b>40</b> <b>60</b>	$\overline{0}$	0	0	0	0	0	0	0	0	0
Ferric chloride	FeCl3	Satu.	80		0	0	0	0	0	0	$\overline{0}$	0	0
			100			0	0	0	$\bigcirc$				
			120				0	0					
			20	0	0	0	0	0	$\bigcirc$	0	0		
			40	0	0	Ô	Ô	0	$\bigcirc$	Ô	0		
Tamana haduarida	_ ()		60	Ô	Ô	Ô	0	0	0	$\bigcirc$	0		
Ferrous hydroxide	Fe(OH)2	Satu.	80		$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$	$\bigcirc$	0		
			100				0	0	$\bigcirc$				
			120				$\bigcirc$	0					
			20	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	0	0
			40	0	$\bigcirc$	$\bigcirc$	O	0	$\bigcirc$	$\bigcirc$	0	0	0
Ferrous nitrate	Fe(NO <sub>3</sub> ) <sub>2</sub>	Satu.	60	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
	10(1003)2	Satu.	80		$\bigcirc$	$\bigcirc$	$\bigcirc$	O	$\bigcirc$	$\bigcirc$	0	O	O
			100				0	0	O				
			120				0	0					
			20	0	0	0	0	0	0	0	0	0	0
			40	0	0	0	0	0	0	0	0	0	0
Ferrous sulfate	FeSO <sub>4</sub>		60	0	0	0	0	0	0	0	$\bigcirc$	0	0
			80		O	O	0	$\bigcirc$	$\bigcirc$	O	0	0	0
			100				0	$\bigcirc$	0				
			120	0	$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$	$\bigcirc$	0		
			<b>20</b> <b>40</b>	0	0	0	0	0	0	0	$\vdash$		
			<u>40</u> 60	0	0	0	0	0	0	0			
Fluoroboric acid	HBF4	Pure	80		0	0	0	0	0	0			
			100				0	0					
			120			<u> </u>	0	0					
			20	0	0	0	0	0	$\bigcirc$	$\bigcirc$	0	0	0
			40	0	0	0	0	0	0	0	0	0	Ô
Fluosilicic acid	H-0!E-		60	0	0	0	0	0	0	0	0	0	0
i iuosiiicic aciu	H2SiF6	50	80		$\triangle$	0	0	O	$\bigcirc$	0	0	0	$\bigcirc$
			100				0	0	$\bigcirc$				
			120				$\bigcirc$	$\bigcirc$					

		Mate	erial		Pla	stic			]	Elast	ome	r	
		Te	emp.	Ū	Ċ	D	P.	P	F	Ę	N	I	C S
Chemicals	emicals Concent Formula	ration (%)	°C	U P V C	C P V C	P P	P V D F	P T F E	F K M	E P D M	N B R	I R	S M
		(/0)	20	$\bigcirc$	$\bigcirc$	0	$\bigcirc$	Ô	$\bigcirc$	$\bigcirc$		0	$\bigcirc$
			40	0	0	0	0	0	0	0		0	0
Terroldebade			60	$\triangle$	Õ	0	Õ	0	Ô	Ô		0	Ô
Formaldehyde	НСНО	35	80			Õ	×	0	Ô	$\bigcirc$		0	0
			100					0					
			120					$\bigcirc$					
			20	0	$\bigcirc$	$\bigcirc$	0	0	×	$\bigcirc$	×	0	0
			40	0	$\bigcirc$	0	0	0		$\bigcirc$		0	0
Formic acid	нсоон	90	60	×	×	×	0	0		$\bigcirc$		0	0
i onnic aciu	нсоон	90	80				0	0		$\bigcirc$		0	0
			100				$\bigcirc$	$\bigcirc$					
			120				$\bigtriangleup$	$\bigcirc$					
			20	$\bigcirc$		$\bigcirc$	0	$\bigcirc$	$\bigcirc$	$\bigcirc$			
			40	O		$\bigcirc$	0	0	$\bigcirc$	$\bigcirc$			
Fruit juice		Pure	60	0		0	0	0	0	$\bigcirc$			
		1 uit	80			0	0	0	O	$\bigcirc$			
			100				0	0					
			120				0	0					
			20	×	×		0	0	×	$\bigtriangleup$	×		
			40				0	0					
Furfuryl alcohol	C4H3OCH2OH	Pure	60				0	0					
		1 41 0	80				×	0					
			100										
			120										
			20	0		$\triangle$	0	0	0	×	$\left  \begin{array}{c} 0 \\ 0 \end{array} \right $	×	
			40	0		×	0	0	$\left  \begin{array}{c} 0 \\ 0 \end{array} \right $		$\left  \begin{array}{c} 0 \\ 0 \end{array} \right $		×
Gasoline-leaded			60				0	0	0		0		
			80				0	0					
			100 120					0					
			-	0		$\triangle$	0	0	0	×	$\overline{0}$	×	
			<b>20</b> <b>40</b>	$\left  \begin{array}{c} 0 \\ 0 \end{array} \right $		×	0	0					×
			<b>40</b> <b>60</b>	$\vdash$			0	0	-				
Gasoline-sour			80				0	0					
			100					0					
			120					0					
			20	0		$\triangle$	0	0	0	×	0	×	
			$\frac{20}{40}$	$\overline{0}$		×	0	0	$\overline{0}$		$\overline{0}$		×
			60				0	0	$\overline{0}$		$\overline{0}$		
Gasoline-unleaded			80				0	0					
			100					0					
			120					0					
			20	0	0	0	0	Ô	$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$
			40	0	0	0	0	0	0	0	0	0	$\bigcirc$
			60	Ô	0	0	0	Ô	$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$
Gelatin&Glue			80		0	0	0	0	0	Ô	0	0	$\bigcirc$
			100				0	0	$\bigcirc$				
			120				0	0	1				



		Mate	erial		Pla	stic			]	Elast	ome	r	
Che	emicals _ Concentr	Te	emp.	U P V C	C P V C	P P	P V D F	P T F E	F K M	E P D M	N B	I I	C S
Chemicals	emicals Concentr Formula	(%)	°C								R	R	M
			20	0	0	0	0	0	0	0	0	0	0
			40	0	0	0	0	0	0	0	0	0	0
Glycerol	C3H5(OH)3	Pure	<u>60</u>	0	O	0	0	0	0	0		0	O
			80			0	0	0	O	O			
			100 120				0	0					
			20	0		$\bigcirc$	0	0	$\bigcirc$	×	0	×	$\triangle$
			$\frac{20}{40}$	0		$\overline{\mathbf{O}}$	0	0	0				
			60	0		$\triangle$	0	0	0				
Heptane	CH3(CH2)5CH3		80				0	0					
			100				0	0					
			120				Ô	Ô					
			20	0	$\bigcirc$	0	0	Ô	$\bigcirc$	×	0	×	$\triangle$
			40	0		0	0	0					
Hexane	CH3(CH2)4CH3		60			$\bigtriangleup$	0	$\bigcirc$					
incxunc	СП3(СП2)4СП3		80				$\bigcirc$	$\bigcirc$					
			100				O	$\bigcirc$					
			120				$\bigcirc$	O					
			20	0	$\bigcirc$	O	O	0	$\bigcirc$	$\bigcirc$	$\bigtriangleup$	$\bigcirc$	O
			40	0	0	0	0	0	O	O	$\triangle$	0	O
		20	60	0	0	0	0	0	0	Ô	×		
			80		0	0	0	0	$\bigcirc$	0			
			100				$\bigcirc$	0					
Hydrobromic acid	HBr		120				0	0					
			20	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	0	0	0		0	0
			<b>40</b> <b>60</b>	$\bigcirc$	$\bigcirc$	0	$\bigcirc$	$\bigcirc$			×		
		47	80		0	0	0	0					
			100				0	0					
			120				0	0					
			20	0	$\bigcirc$	0	0	0	$\bigcirc$	0	$\triangle$	0	0
			40	0	0	0	0	0	0	0	×	0	0
			60	Ô	Ô	0	0	Ô	$\bigcirc$	$\bigcirc$		Ô	Ô
		25	80		$\bigcirc$	0	0	0	0	×		×	×
			100				0	$\bigcirc$	$\bigtriangleup$				
Hydrochloric acid			120				0	0					
inguischionic aciu	HCl		20	0	$\bigcirc$	0	0	0	0	0	$\triangle$	0	0
			40	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	O	×	×	×	×	×
		35	60	0	$\bigcirc$	0	0	0	×	×		×	×
		00	80		0	0	0	O					
			100				0	0					
			120				$\triangle$	0	_	_			
			20	0	0	0	0	0	O	O	0		
			40	0	0	0	0	0					
Hydrogen cyanide	HCN		60	0	$\bigcirc$	0	0	0					
			80				0	0					
			100				0	0					
			120				$\bigcirc$	$\bigcirc$					



		Mat	erial		Pla	stic			]	Elast	ome	r	
		Te	emp.	Ų	Ċ	р	P	P	F	E	N B	I I	C S
Chemicals	micals Concer Formula	ntration (%)	°C	U P V C	C P V C	P P	P V D F	P T F E	F K M	E P D M	B R	I R	S M
Chemicals	Torritula	(/0)	20	$\bigcirc$	$\bigcirc$	$\bigcirc$	<b>F</b>		$\bigcirc$	$\bigcirc$	X		$\bigcirc$
			$\frac{20}{40}$	0	0	0	0	0	0	0		0	
			60		$\overline{\mathbf{O}}$	0	0	0	0	0		0	
		10	80		$\triangle$	0	0	0	0	0		$\overline{0}$	
			100			0	0	0	0				
			120										
			20	0	$\bigcirc$	$\bigcirc$	0	0	0	$\bigcirc$	×	0	0
			40	0	0	0	0	0	0	0		0	0
			60	$\triangle$	$\bigtriangleup$	0	0	0	0	0		0	0
		30	80	×	×	0	0	0	0	0		0	$\overline{0}$
			100				0	0					
			120										
Hydrofluoric acid	HF		20	0	0	0	0	0	0	$\bigcirc$	×	0	0
			$\frac{20}{40}$	$\triangle$	$\bigtriangleup$	0	0	0	0	0		0	0
			60	×	×	0	0	0	0	0		0	$\overline{0}$
		40	80			0	0	0	0	$\bigtriangleup$			
			100				0	0					
			120										
			20	0	0	0	0	0	0	$\bigcirc$	×	0	0
			40	$\triangle$	×	$\bigcirc$	0	0	0	Õ		0	$\odot$
			60	×		Õ	0	0	0	$\bigtriangleup$		$\overline{\mathbf{O}}$	$\overline{0}$
		55	80			$\bigcirc$	0	0	$\bigcirc$	×		$\triangle$	$\triangle$
			100				Ô	Ô					
			120										
			20	0	$\bigcirc$	$\bigcirc$	0	0	0	$\bigcirc$	0	0	0
			40	0	0	0	0	0	0	0	0	0	0
The last second			60	0	Ô	Ô	0	0	0	Ô	0	0	0
Hydrogen	H <sub>2</sub>		80		Ô	Ô	Ô	Ô	Ô	$\bigcirc$			
			100					Ô					
			120					Ô					
			20	0	$\bigcirc$	$\bigcirc$	0	0	0	$\bigcirc$	×	0	0
			40	0	0	0	0	0	0	0		0	$\overline{0}$
			60	0	0	0	0	0	0	0		0	
		20	80		Õ	Õ	0	0	0	$\bigtriangleup$		$\overline{\mathbf{O}}$	×
			100				0	Ô				$\bigtriangleup$	
			120					Ô					
			20	0	0	$\bigcirc$	0	0	$\bigcirc$	0	×	×	×
			40	Õ	$\triangle$	Õ	0	0	0	$\bigtriangleup$			
Undrogen nere-ide			60	$\triangle$	×	Õ	0	0	$\triangle$	×			
Hydrogen peroxide	H2O2	35	80			$\triangle$	0	0					
			100				0	0					
			120					0					
			20	0	$\bigtriangleup$	$\bigtriangleup$	0	Ô	$\triangle$	×	×	×	×
			40	$\triangle$	×	×	0	0	×				
			60				0	0					
		50				<u> </u>	0	0					
			80										
			80 100					0					



		Mate	erial		Pla	stic			1	Elast	ome	r	
Chemicals	emicals Concentra Formula	Te ation (%)	emp.	U P V C	C P V C	P P	P V D F	P T F E	F K M	E P D M	N B R	I I R	C S M
			20	O	$\bigcirc$	O	O	O	O	$\bigcirc$	0	$\bigcirc$	$\bigcirc$
			40	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Hydrogen sulfide(Dry)	H <sub>2</sub> S		60	O	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	O	O	O
	1120		80		0	O	0	0	0	0	0	0	0
			100				0	0	O			<u> </u>	
			120				0	0					
			20	0	0	0	0	0	0	0	0	0	0
Undrogon			<b>40</b> <b>60</b>	0	0	0	0	0	$\bigcirc$	0	0	0	0
Hydrogen sulfide(Aqueous)	H2S		80		0	0	0	0		0	0	$\circ$	$\circ$
Sumuc(Aqueous)			100				0	0					
			120				0	0					
			20	0		$\bigcirc$	0	0	$\bigcirc$	×	0	×	$\overline{\mathbf{O}}$
			$\frac{20}{40}$				0	0					
Icocctore			60				Ô	Ô					
Isooctane	(CH3)3CCH2CH(CH3)2		80				0	0					
			100				$\bigcirc$	$\bigcirc$					
			120					$\bigcirc$					
			20	O	$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$	$\bigcirc$	O	0	0
			40	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	0	0
Isopropyl alcohol	(CH3)2CHOH	Pure	60	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$		$\bigcirc$	$\bigcirc$
	(CH3)2CHOH	1 ure	80				$\bigcirc$	$\bigcirc$	$\bigcirc$				
			100					0	0				
			120					0				<u> </u>	
			20				0	0	$\bigtriangleup$	$\bigtriangleup$	$  \bigcirc$		$\triangle$
			40				$\bigcirc$	0					
Isopropyl ether	(CH3)2CHO-CH(CH 3)2	Pure	60				$\triangle$	0				<u> </u>	
			80				×	0					
			100										
			120 20	0		$\bigcirc$	$\bigcirc$	$\odot$	$\bigcirc$	×	$\bigcirc$	×	
			40	$\left  \begin{array}{c} 0 \\ 0 \end{array} \right $			0	0		^		^	
			60	$\square$		×	0	0					
Kerosine			80				0	0					
			100				0	0					
			120				0	0					
			20	0	$\bigcirc$	0	0	0	$\bigcirc$	0	0	0	0
			40	0	Ô	Ô	0	0	Ô	Ô	0	Ô	Ô
Lactic acid		0-	60	0	0	0	0	0	0	0	$\triangle$	0	0
	CH3CH(OH)COOH	25	80		0	0	0	0	0	$\bigcirc$			
			100				0	0	$\bigcirc$				
			120				$\bigcirc$	$\bigcirc$					
			20	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	O	0
			40	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	O	
Lead acetate	Pb(CH <sub>3</sub> COO) <sub>2</sub>	Satu.	60	0	0	0	0	0	0	0	0	0	
		Jaru.	80		0	0	0	0	0	0	0	<u> </u>	
			100				0	0				<u> </u>	
			120				$\bigcirc$	$\bigcirc$					



		Mat	erial		Pla	stic			]	Elast	ome	r	
		Te	emp.	Ų	Ċ	D	P	P	F	E	N B	I I	C S
Chemicals	emicals Concentr Formula	ation (%)	°C	U P V C	C P V C	P P	P V D F	P T F E	F K M	E P D M	B R	I R	S M
		(/0)	20	$\bigcirc$	$\bigcirc$	0	0	0	$\bigcirc$	$\bigcirc$	0		0
			40	0	$\bigcirc$	Ô	0	Ô	0	$\bigcirc$	Ô		0
Lead chloride			60	Ô	$\bigcirc$	Ô	Ô	Ô	$\bigcirc$	$\bigcirc$	$\bigcirc$		Ô
Lead Chioride	PbCl <sub>2</sub>		80			$\bigcirc$	0	0	$\bigcirc$	$\bigcirc$	$\bigcirc$		0
			100				0	$\bigcirc$	$\bigcirc$				
			120				$\bigcirc$	$\bigcirc$					
			20	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
			40	O	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	$\bigcirc$
Lead nitrate		Cata	60	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	$\bigcirc$
	<b>Pb(NO3)</b> 2	Satu.	80		$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	$\bigcirc$
			100				$\bigcirc$	$\bigcirc$	$\bigcirc$				
			120										
			20	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	O	$\bigcirc$
			40	O	$\bigcirc$	$\bigcirc$	0	O	$\bigcirc$	$\bigcirc$	$\bigcirc$	O	$\bigcirc$
Lead sulfate	PbSO4		60	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Leaw Smille	10504		80		$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
			100				$\bigcirc$	$\bigcirc$	$\bigcirc$				
			120				$\bigcirc$	$\bigcirc$					
			20	O		$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	×	$\bigcirc$	×	0
			40				$\bigcirc$	$\bigcirc$	$\bigcirc$				
Light oil			60				$\bigcirc$	$\bigcirc$	$\bigcirc$				
C			80				$\bigcirc$	$\bigcirc$					
			100				$\bigcirc$	$\bigcirc$					
			120					O					
			20	O	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$		
			40	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$				
Linseed oil			60	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	O					
			80			0	0	0					
			100				0	0					
			120				0	0		-			
			20	0	0	0	0	0	0	0	0	0	0
			40	0	0	0	0	0	0	0	0	0	0
Magnesium carbonate	MgCO <sub>3</sub>		<u>60</u>	0	$\bigcirc$	0	0	0	0	0	$\bigcirc$	0	0
	5 5		80		0	0	0	0	0	$\bigcirc$	0	0	O
			100				0	0	O				
			120				0	0					
			20	0	0	0	0	0	0	0	0	0	0
			40	$\bigcirc$	0	0	0	0	0	0	0	0	0
Magnesium chloride	MgCl <sub>2</sub>	Satu.	60	0	$\bigcirc$	0	0	0	0	0	0	0	0
	-		80		0	0	$\bigcirc$	0	$\bigcirc$	O	$\bigcirc$	0	0
			100				$\bigcirc$	0	0				
			120				$\bigcirc$	0					
			20	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	$\bigcirc$		$\bigcirc$	$\bigcirc$
			40	0	0	$\bigcirc$	0	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	$\bigcirc$
Magnesium hydroxide	Mg(OH)2	Satu.	<u>60</u>			0	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	$\bigcirc$
			80			O	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	O	O	O
			100				$\left  \begin{array}{c} 0 \\ 0 \end{array} \right $	$\bigcirc$	O			<u> </u>	
			120				$ \cup$	$\bigcirc$					



		Mat	erial		Pla	stic			1	Elast	ome	r	
<b>Chemicals</b>	emicals Concentr Formula	ation (%)	emp.	U P V C	C P V C	P P	P V D F	P T F E	F K M	E P D M	N B R	I I R	C S M
			20	Ô	Ô	$\bigcirc$	0	0	$\bigcirc$	$\bigcirc$	$\bigcirc$		
			40	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$		
Magnesium nitrate	Mg(NO3)2		60	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$		
ingreoium muute	Mg(NO5)2		80			$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	0		
			100				$\bigcirc$	$\bigcirc$	$\bigcirc$				
			120				$\bigcirc$	O					
			20	0	Ô	0	0	0	O	0	0	0	0
			40	0	0	0	0	0	0	0	0	0	$\bigcirc$
Magnesium sulfate	MgSO4		60	0	0	0	0	0	0	0	0	0	$\bigcirc$
-			80		0	0	0	0	0	O	0	0	$\bigcirc$
			100				0	0	O				
			120				0	0					
			20	0	0	0	0	0	0	0	$\left  \begin{array}{c} 0 \\ 0 \end{array} \right $	0	$\left  \begin{array}{c} 0 \\ 0 \end{array} \right $
			40	$\bigcirc$	0	0	0	0	$\bigcirc$	$\bigcirc$	0	0	0
Maleic acid	HOOCC2H2COOH		60	0	0	0	0	0	0	0			
			80		O	O	0	0	0				
			100				0	0					
			120				0	0					
			20	0	0	$\bigcirc$	0	0	0	0	$\bigcirc$	$\left  \begin{array}{c} 0 \\ 0 \end{array} \right $	$\bigcirc$
	HOOCCUPCH		40	0	0	0				0	$\bigcirc$	$\left  \begin{array}{c} 0 \\ 0 \end{array} \right $	$\left  \begin{array}{c} 0 \\ 0 \end{array} \right $
Malic acid	HOOCCH2CH- (OH)COOH	Satu.	60		0	0	0	0	0	0	$\bigcirc$	0	0
			80		0		0	0			$  \bigcirc$		
			100 120				0	0					
			20	0	$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$	$\bigcirc$	0	0	0
			40	0	0	0	0	0	0	0	0	0	0
			60	0	0	0	0	0	0	0	0	0	0
Mercuric chloride	HgCl <sub>2</sub>		80			0	0	0					
			100				0	0					
			120				0	0					
			20	0		$\bigcirc$	0	0	$\bigcirc$	$\bigcirc$	0		
			40	0		0	0	0	0				
			60	0		0	0	0	0				
Mercuric cyanide	Hg(CN) <sub>2</sub>	Satu.	80			0	0	0					
			100				0	0					
			120				0	0					-
			20	0	0	$\bigcirc$	0	0	$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$
			40	0	0	0	0	0	0	0		0	0
Monouria			60	0	0	0	0	0	0	0		0	$\odot$
Mercuric nitrate	Hg(NO <sub>3</sub> ) <sub>2</sub>		80				0	0	$\bigcirc$				
			100					0					
			120										
			20	0	$\bigcirc$	0	0	0	$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$
			40	0	0	0	0	0	0	$\bigcirc$	Ô	0	0
Mercuric sulfate			60	Ô	Ô	Ô	Ô	Ô	$\bigcirc$	$\bigcirc$	Ô	0	$\bigcirc$
mercuric suitate	HgSO4	Satu.	80		Ô	0	0	0	Ô	Ô	0	0	$\bigcirc$
			100				0	0	Ô				
			120				0	0					



		Mat	erial		Pla	stic			]	Elast	ome	r	
Chemicals	micals Concentr Formula	ation	emp.	U P V C	C P V C	P P	P V D F	P T F E	F K M	E P D M	N B P	I I R	C S M
Chemicais	Formula	(%)	20	Ċ	Ċ	$\bigcirc$	F	E	$\bigcirc$	<u>М</u>	R		M
			40	0			0	0					
			60	0			0	0					
Mercurous nitrate	Hg2(NO3)2	Satu.	80				0	0					
			100				0	0					
			120				0	Ô					
			20	0	$\bigcirc$	0	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	0
			40	0	$\bigcirc$	0	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	O
Mercury	Ца		60	0	$\bigcirc$	0	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	O	$\bigcirc$	O
Mercury	Hg		80		$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	Ø
			100				$\bigcirc$	$\bigcirc$					
			120				O	O					
			20	0	0	0	0	0	0	0	0	0	Ô
			40	0	0	0	0	0	0	0	0		
Methane	CH4		60	0	0	0	0	0	0	$\bigcirc$	0		
			80				0	0	0	$\bigcirc$			
			100				0	0	0				
			120 20	×	~	0	0	0		$\bigcirc$		$\overline{\mathbf{O}}$	×
			$\frac{20}{40}$	^	×		$\overline{0}$	0	×		×		
			60					0					
Methyl acetate	CH3COOCH3	Pure	80				×	0					
			100					0					
			120										
			20	0	0	0	0	0	$\overline{\mathbf{O}}$	$\bigcirc$	$\bigcirc$	0	Ô
			40	0	Õ	0	0	0	Ō	0	Õ	0	Ô
Methyl alcohol			60	0	$\bigcirc$	$\bigcirc$	0	$\bigcirc$	$\bigtriangleup$	$\bigcirc$	$\bigtriangleup$	$\bigcirc$	O
Methyl alcohol	CH <sub>3</sub> OH	Pure	80										
			100										
			120										
			20	$\bigtriangleup$		×	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	×		
			40				0	0					
Methyl bromide	CH3Br		60				0	0					
			80				0	0					
			100					0					
			120	~	~			0	^	$\cap$			
			20	×	×	$\bigtriangleup$	$\bigcirc$	0	$\bigtriangleup$	0	×		-
			<b>40</b> <b>60</b>				0	0					-
Methyl chloride	CH <sub>3</sub> Cl		80				0	0					-
			100				0	0					-
			120				0	0					
			20	×	×	0	×	0	×	0	×	$\triangle$	×
			40			$\triangle$		0		$\triangle$			
Mothyl othyl botono	<b>OH</b> 202		60			×		0					
Methyl ethyl ketone	CH3COC2H5		80					0					
			100					0					
			120										

		Mate	erial		Pla	stic			]	Elast	ome	r	
Chemicals Che	micals Concentr Formula	Te ration (%)	emp. °C	U P V C	C P V C	P P	P V D F	P T F E	F K M	E P D M	N B R	I I R	C S M
			20	×	×	0	0	0	$\bigcirc$	$\bigtriangleup$	×		
			40			$\bigcirc$	0	$\bigcirc$					
Morpholine	O(CH2CH2)2NH	Pure	60			$\bigcirc$	$\triangle$	$\bigcirc$					
morphonic	0(01120112)21011	luie	80					$\bigcirc$					
			100										
			120										-
			20	×	×	0	0	0	0	×	×		-
			<b>40</b> <b>60</b>				0	0	0				-
Naphthalene	C10H8		80				0	0	0				-
			100				0	0					
			120				0	0					-
			20	$\bigcirc$			0	0	$\bigcirc$	$\bigcirc$	$\bigcirc$		C
			40	0			0	0					
			60	0			0	Ô					
Natural gas			80				0	0					
			100					$\bigcirc$					
			120					$\bigcirc$					
			20	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigtriangleup$	$\bigcirc$	$\bigcirc$		
			40	O	$\bigcirc$	$\bigcirc$	0	$\bigcirc$					
Nickel acetate	(CH3CO2)2Ni	Satu.	60	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	O					
	(CHIJCOL)2111	Satu.	80		$\bigcirc$	0	0	0					
			100				0	0					
			120				0	0					
			20	0	0	0	0	0	0	0	0	0	C
			40 60	0	0	0	0	0	0	0	0	0	C
Nickel(II) chloride	NiCl <sub>2</sub>	Satu.	80		0	0	0	0	0	0	0	$\bigcirc$	
			100				0	0	0				
			120				0	0					
			20	0		$\bigcirc$	0	0	$\bigcirc$	$\bigcirc$	0		
			40	0		0	0	0	0	0	0		
			60	0		0	0	0	0	$\bigcirc$	0		
Nickel( II ) nitrate	<b>Ni(NO3)</b> 2	Satu.	80			$\bigcirc$	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	0		
			100				0	$\bigcirc$	$\bigcirc$				
			120				0	0	$\bigcirc$				
			20	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	C
			40	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	C
Nickel sulfate	NiSO4	Satu.	60	0	0	0	0	0	0	0	0	0	C
	11004	Jacu.	80		0	0	0	0	0	0	0	0	
			100				0	0	0				-
			120				0	0		$\frown$			
			$\frac{20}{40}$	0	$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$	$\bigcirc$	×	$\bigcirc$	
			40	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	$\bigcirc$	○ ×		$\left  \begin{array}{c} 0 \\ 0 \end{array} \right $	
Nitric acid	HNO3	30	60 80	$  \cup$	×	0	0		×	×		$ \cup$	×
			100		^		0	0	×				
			100										-



		Mate	erial		Pla	stic			]	Elast	ome	er	
		Te	emp.	Ų	Ċ	D	P	P	F	E	N	Ι	C S
Chemicals	emicals Concent Formula	ration (%)	°C	P V C	P V C	P			Ř M	D M	B R	I R	S M
		(/0)				$\triangle$						×	×
									×				
NTI- 1 11					×							-	
Nitric acid	HNO3	70					$\triangle$						
							×						
			-	×	×	$\bigcirc$	$\circ$	$\bigcirc$	$\bigcirc$	0	×	$\overline{\mathbf{O}}$	×
						Ō	$\triangle$	Ô					
Nitrobenzene						$\bigtriangleup$	×	0					
Nitrobenzene	C6H5NO2												
	Formula HNO3 Pe C6H5NO2 CH(CH2)7CH3 II CH(CH2)7COOH H2SO4+SO3												
				0	0	$\bigcirc$	0	Ô	$\bigcirc$	×	×	$\bigcirc$	×
				0	0			Ô	Ô			Ô	
	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		Ō										
Oleic acid										$\bigtriangleup$			
	CH(CH2)7COOH	Term         V         C         V         C         V         P         P         F         K         K         N         N           20         0 <td></td> <td></td>											
				×	×	×			-	×	×	×	×
F													
Fuming sulfuric acid	$H_2SO_4 + SO_3$												
				0	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\cap$	$\triangle$
								-	-			-	
												-	
Olive oil													
				0	$\bigcirc$	$\bigcirc$			0	$\bigcirc$	$\cap$	0	$\bigcirc$
												_	0
2													0
Oxygen gas	O2												0
				0	$\cap$	×	0		$\bigcirc$	$\bigcirc$	×	-	0
					-								$\vdash$
		0.5m = / 4								-			
		Water											
								<u> </u>					
Ozone	O3			×	×	×	$\cap$	0		$\cap$			
		7000ppm											
		$(15g/m^3)$	00										
		Air											
								<u> </u>					
			120										



		Mat	erial		Pla	stic			]	Elast	ome	r	
Chemicals	emicals Concentr Formula	Te	emp.	U P V C	C P V C	P P	P V D F	P T F E	F K M	E P D M	N B R	I I R	C S M
Chemicais	Torniula	(70)	20	<u>C</u>	C	$\bigcirc$	F	E	0				$\bigcirc$
			40			0	0	0					
Palmitic acid			60			Ô	Ô	Ô					
Pallilluc aciu	C15H31COOH	Pure	80			0	0	$\bigcirc$					
			100				$\bigcirc$	0					
			120				$\bigcirc$	$\bigcirc$					
			20	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	×	$\bigcirc$	×	0
			40	O	$\bigcirc$	$\bigcirc$	O	$\bigcirc$	$\bigcirc$		$\bigcirc$		0
Paraffin oil			60				O	$\bigcirc$	$\bigcirc$				
			80				0	O					
			100				0	O					
			120				0	0					
			20	×	×	0	0	0	0	×	×	×	×
			40			$\triangle$	0	0	0				
Tetrachloroethylene	Cl <sub>2</sub> C=CCl <sub>2</sub>	Pure	60			×	0	0	0				
			80				0	0					
			100				0	0					
			120										
			20	0		0	0	0	O	×	0		
			40				0						
Petroleum			60				0	0					
			80				0	0					
			100				0	0					
			120				$\bigcirc$	0	$\bigcirc$	$\bigcirc$			
			20	$\bigcirc$		0	0	0			×	0	$ \circ $
			<b>40</b> <b>60</b>			$\bigcirc$	$\circ$						
Phenol	C6H5OH	Pure	80			×	$\left  \begin{array}{c} 0 \\ 0 \end{array} \right $						
			100			^							
			120										
			20	×		$\bigtriangleup$	$\bigcirc$		×	$\bigcirc$	×		
			40				0	0					
			60				0						-
Phenylhydrazine	C6H5NHNH2		80				0	0					
			100				$\triangle$	0					
			120				×	0					
			20	×	×	0	0	0	0	$\bigcirc$	×		0
			40				0	0	0	0			
Phenylhydrazine			60				0	0					
hydrochloride	C <sub>6</sub> H <sub>8</sub> N <sub>2</sub> · HCl		80					0					
			100										
			120										
			20	×	×	×			×		×		
			40										
Phosgene gas	COCl <sub>2</sub>		60										
i nosecne gas			80										
			100										
			120										



		Mat	erial		Pla	stic			]	Elast	ome	er	
Cha	unicolo Concent	Te	emp.	U	C	Р	P	P	F	E	N B	I	C S
Chemicals	emicals Concentr Formula	ration (%)	°C	U P V C	C P V C	P P	P V D F	P T F E	F K M	E P D M	R	R	M
			20	Ô	Õ	0	0	$\bigcirc$	0	$\bigcirc$	$\bigcirc$	0	0
			40	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	0
		10	60	$\bigcirc$	$\bigcirc$	$\bigcirc$	O	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$
		10	80		$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigtriangleup$	$\bigcirc$	$\bigcirc$
			100				O	$\bigcirc$	$\bigcirc$				
			120				O	$\bigcirc$					
			20	0	0	0	0	0	0	O	0	0	0
			40	0	0	0	0	0	0	0	0	0	0
Phosphoric acid	H3PO4	50	60	0	0	0	0	0	0	0		0	0
-			80		$\bigtriangleup$	$\triangle$	0	0	0	$\bigcirc$	×	0	O
			100				0	0	O				
			120				0	0					
			20	0	0	0	0	0	0	0	0	0	0
			40	$\bigcirc$	$\bigcirc$	0	0	0	0	0		$\bigcirc$	$\bigcirc$
		85	60	0	Ô	0	0	0	0	0	×	0	0
			80		$\bigtriangleup$	0	0	0	0	O			
			100				0	0	O				
			120				0	$\bigcirc$					
			20	×	×	×	×	$\bigcirc$	×	×	×	×	×
			40					$\triangle$					
Phosphorus oxychlorid	POCl <sub>3</sub>		60										
			80										
			100										
			120		~	~							
			20	×	×	×	$\bigcirc$	0	0	×	×	×	×
			<b>40</b> <b>60</b>				0	0					
Phosphorus trichloride	PCl <sub>3</sub>	Pure					0						
			80 100				0	0					
			100					0					
			20	0	$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$	$\bigcirc$	0	0	0
			$\frac{20}{40}$	0	0	0	0	0	0	0			
			60	0	0	0	0	$\bigcirc$		$\bigcirc$			
Sodium thiosulfate	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>		80			0	0	0					
			100				0	0					
			120				0	0					
			20	0		0	0	0	0	$\bigcirc$	0	0	$\bigcirc$
			40				0	0					
			60				0	0					
Phthalic acid	C <sub>6</sub> H <sub>4</sub> (COOH) <sub>2</sub>		80				0	0					
			100				0	0					
			120					0					
		1	20	0	$\bigcirc$	0	0	Ô	$\bigcirc$	$\bigcirc$	0	0	0
			40	0	Ô	0	0	Ô	0	$\bigcirc$	$\overline{\mathbf{O}}$	Ô	0
Distant		.	60	0	0	0	0	0	0	0	$\triangle$	0	0
Picric acid	C6H2(OH)(NO2)3	10	80		0	0	0	Ô	Ō	Õ	×	$\bigtriangleup$	$\overline{0}$
			100				0	0	$\triangle$				
		1	120	-			<u> </u>	0			1	1	-



		Mat	erial		Pla	stic			]	Elast	ome	er	
	- 1	Te	emp.	U	C	р	P	P	F	E	N	I	C S
Chemicals	micals Concentr Formula	ation (%)	°C	U P V C	C P V C	P P	P V D F	P T F E	F K M	E P D M	B R	I R	
		(/0)	20	$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$	0	$\bigcirc$	0	0	0
			40	0	0	0	0	0	0	0			
			60		$\bigcirc$	$\bigcirc$	Ô	Ô	$\bigcirc$	$\bigcirc$			
Poly aluminium chloride	[Al₂(OH)nCI6-n ]m		80					$\bigcirc$					
			100										
			120										
			20	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$
			40	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$
Potassium dichromate	KaCaro Da		60	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	$\bigcirc$	$\bigcirc$	0	0	0
	K2Cr2O7	Satu.	80		$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$	$\bigcirc$	0		
			100				$\bigcirc$	$\bigcirc$	$\bigcirc$				
			120				$\bigcirc$	0					
			20	0	$\bigcirc$	0	O	0	$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$
			40	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	$\bigcirc$
Potassium bromide	KBr		60	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
i otussium bionnuc	NDI		80		$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
			100				$\bigcirc$	$\bigcirc$	$\bigcirc$				
			120				0	$\bigcirc$					
			20	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
			40	O	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Potassium chloride	KCl		60	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
	KCI		80		$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$		
			100				O	$\bigcirc$	$\bigcirc$				
			120				O	$\bigcirc$					
			20	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
			40	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Potassium chromate	K <sub>2</sub> CrO <sub>4</sub>		60	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
	M2CI04		80		$\bigcirc$	$\bigcirc$	O	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	O	$\bigcirc$
			100				0	0	$\bigcirc$				
			120				0	0					
			20	0	0	0	0	0	0	O	0	0	0
			40	0	0	0	0	0	0	0	0	0	0
Potassium cyanide	KCN		60	0	0	0	0	0	0	0	0	0	0
			80		0	0	0	0	0	0	0	0	0
			100				0	0	0				
			120				0	0					
			20	0	0	0	0	0	0	0	0		
			40	0	0	0	0	0	0	0	0		
Potassium iodide	KI		<u>60</u>	0	0	0	0	0	0	0	0		
			80		0	0	0	0	0	O	0		
			100				$\bigcirc$		O				
			120		$\bigcirc$		$\bigcirc$	$\bigcirc$					
			20	0	$\bigcirc$	0	0	0	0	0		0	0
			40	0	0	0	0	0	0	0	0	0	0
Potassium nitrate	KNO3		60	0	O	0	0		0	0	$\bigcirc$		0
			80			O	$\bigcirc$		0	O	$  \bigcirc$	$\bigcirc$	$\bigcirc$
			100				$\bigcirc$		O				
			120				$\bigcirc$	$\bigcirc$				1	1

		Mate	erial		Pla	stic			]	Elast	ome	r	
		Te	emp.	Ų	Ċ	р	P	P	F	E	N B	Ι	C S
Chemicals	emicals Concen Formula	tration (%)	°C	U P V C	C P V C	P P	P V D F	P T F E	F K M	E P D M	B R	I R	S M
		(/0)	20	$\bigcirc$	$\bigcirc$	0	$\bigcirc$		0	$\bigcirc$	0	0	$\bigcirc$
			40	0	0	0	0	Ô	$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$
Potassium sulfate	W 60		60	Ô	$\bigcirc$	$\bigcirc$	Ô	Ô	Ô	$\bigcirc$	Ô	Ô	Ô
Polassium suitale	K2SO4	Pure	80		$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$	0		Ō	Ō
			100				0	$\bigcirc$	$\bigcirc$				
			120				$\bigcirc$	$\bigcirc$	$\bigcirc$				
			20	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	×	$\bigcirc$		×
			40			$\bigcirc$	$\bigcirc$	$\bigcirc$					
Propane	CH3CH2CH3		60			$\bigcirc$	$\bigcirc$	$\bigcirc$					
Tropune			80				$\bigcirc$	$\bigcirc$					
			100				$\bigcirc$	$\bigcirc$					
			120				$\bigcirc$	$\bigcirc$					
			20	0	0	0	0	0	0	0	0	0	0
			40	0	0	0	0	0	0	0	0	0	$\bigcirc$
Propyl alcohol	СзН7ОН	Pure	60	$  \bigcirc$	0	0	0	0	0	0		0	$\bigcirc$
- /		1 41 0	80		0	0	$\bigcirc$	0	0	$\bigcirc$	×	0	$\bigcirc$
			100				$\triangle$	0	O				
			120					0					
			20	×	×	0	$\triangle$	0	×	Ô	×	$\triangle$	×
			40			0	$\triangle$	0		$\triangle$		×	
Pyridine	C5H5N		60			0	×	0		×			
			80					0					
			100										
			120										
			20	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	$\bigcirc$	$\bigcirc$	0
			40 60	0	0	0	0	0	0	0	0	0	
Silicon oil			80		0	0	0		$\bigcirc$				
			100				0	0					
			100				0	0					
			20	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$	$\bigcirc$	0	$\bigcirc$	$\odot$
			40		0	0	0	0	0	0	0	0	$\odot$
			60		0	0	0	0	0	0	0	0	$\odot$
Silver cyanide	AgCN		80		0	0	0	0					
			100				0	0					
			120				0	0					
			20	$\bigcirc$	0	0	0	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	0
			40	Ô	Ô	Ô	Ô	Ô	Ô	$\bigcirc$	Ô	Ô	$\bigcirc$
Silver nitrate			60	0	0	0	0	0	0	0	0	0	$\bigcirc$
Suver mudle	AgNO <sub>3</sub>		80			0	0	0	$\bigcirc$	$\bigcirc$	0		
			100				0	0					
			120				0	0					
			20		$\bigcirc$	$\bigcirc$	0	O	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	$\bigcirc$
			40	O	$\bigcirc$	O	0	0		$\bigcirc$		0	$\bigcirc$
Sodium acetate	CH3COONa	Satu.	60	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$		$\bigcirc$		$\bigcirc$	$\bigcirc$
		Jaiu.	80		$\bigcirc$	$\bigcirc$	O	O		$\bigcirc$		O	$\bigcirc$
			100				O	$\bigcirc$					
			120				$\bigcirc$	$\bigcirc$					

		Mat	erial		Pla	stic			]	Elast	ome	r	
Chemicals	micals Concent Formula	Te ration	emp.	U P V C	C P V C	P P	P V D F	P T F E	F K M	E P D M	N B R	I I R	C S M
Chemicais	Formula	(%)	20	C	C	$\bigcirc$	F	E O	1.1	M	ĸ	ĸ	IVI
			40	0	0	0	0	0					
			60	0	0	0	0	0					
Sodium benzoate	C6H5COONa		80			0	0	0					
			100				0	0					
			120				0	0					
			20	0	$\bigcirc$	0	0	0	0	$\bigcirc$	0	0	0
			40	Ô	Ô	Ô	0	Ô	$\bigcirc$	Ô	Ô	0	Ô
Codium hudrogen corbenete			60	$\bigcirc$	Ô	Ô	Ô	Ô	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	0
Sodium hydrogen carbonate	NaHCO3		80			Ô	Ô	0	Ô	$\bigcirc$			
			100				0	0	$\bigcirc$				
			120				0	0					
			20	0	$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$	$\bigcirc$	0	0	0
			40	0	$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$	$\bigcirc$	0	0	0
Sodium hydrogen sulfate	Nation		60	0	$\bigcirc$	0	0	0	$\bigcirc$	0	0	0	0
somuli nyurogen sunate	NaHSO4		80		$\bigcirc$	0	0	O	$\bigcirc$	$\bigcirc$	0	0	0
			100				$\bigcirc$	$\bigcirc$	$\bigcirc$				
			120				$\bigcirc$	$\bigcirc$					
			20	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
			40	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Sodium bisulfite	NaHSO3		60	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Soulain Sisanne	Nal1505		80		$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
			100				$\bigcirc$	$\bigcirc$	$\bigcirc$				
			120				O	$\bigcirc$					
			20	$\bigcirc$	$\bigcirc$	$\bigcirc$	O	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	0
			40	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Sodium bromide	NaBr	Satu.	60	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
	NuDi	Jatu.	80		$\bigcirc$	O	O	$\bigcirc$					
			100				0	0					
			120				0	0					
			20	0	0	0	0	0	0	0	0	0	0
			40	0	0	0	0	0	0	0	0	0	0
Sodium carbonate	Na <sub>2</sub> CO <sub>3</sub>		60	0	0	0	0	0	0	0	0	0	0
			80		0	0	0	0	0	O			
			100				0	0	O				
			120				0	0					
			20	0	0	0	0	0	0	$\bigcirc$	0	0	0
			40	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	0
Sodium chloride	NaCl	Satu.	60 80	O	0	0	0	0	0	0	0	0	0
					$\bigcirc$		$\odot$	$\bigcirc$	$\bigcirc$	$\bigcirc$			
			100 120										
			20	×	×		$\bigcirc$	0	$\bigcirc$	$\bigcirc$	×	0	$\bigcirc$
			40		~		$\overline{0}$						
			60					$\vdash$				×	×
Sodium chlorite	NaClO <sub>2</sub>	25	80					<u> </u>					
			100										
			120					-	-				

		Mat	erial		Pla	stic			]	Elast	ome	er	
	micolo	To	emp.	U b	С р	Р	P V	P T	F	E	N B	I	C S
Chemicals	micals Concentr Formula	ation (%)	°C	U P V C	C P V C	P P	P V D F	P T F E	F K M	E P D M	R	R	M
			20	O	$\bigcirc$	O	O	$\bigcirc$	$\bigcirc$	$\bigcirc$	0		
			40	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$			
Sodium fluoride	NaF		60	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$			
	INCL		80			$\bigcirc$	O	$\bigcirc$					
			100			$\bigcirc$	0	O					
			120				0	0					
			20	0	$\bigtriangleup$	0	$\left  \begin{array}{c} 0 \\ 0 \end{array} \right $	0	$\triangle$	0	0	0	0
			40	0	×	0	0	0	$\bigtriangleup$	0	0	0	0
		5	60	0	×	0	Ô	0	×	0	0	0	0
			80		×	O	$\triangle$	0		O	0	0	0
			100				$\triangle$	0					
			120	0		$\bigcirc$			$\bigtriangleup$	$\bigcirc$	0	0	0
			$\begin{array}{ c c }\hline 20\\\hline 40\end{array}$	0	<ul><li>△</li><li>×</li></ul>	0	$\left  \begin{array}{c} 0 \\ 0 \end{array} \right $			$\bigcirc$	0	0	
			<u>40</u> 60	0	×	0	$\left  \begin{array}{c} 0 \\ 0 \end{array} \right $		×	0	0	0	
		10	80		×	0				0	0	0	
			100				$\triangle$	0					
			120					0					
			20	0	0	$\bigcirc$	0	0	$\triangle$	0	0	0	$\bigcirc$
			40	0	$\bigtriangleup$	$\bigcirc$	0	0	$\triangle$	0	Ô	0	Ô
Codium hudrouido			60	$\bigcirc$	$\bigtriangleup$	0	0	0	×	0	0	0	Ô
Sodium hydroxide	NaOH	15	80		×	$\bigcirc$	$\triangle$	Ô		$\bigcirc$	0	0	Ô
			100				×	0					
			120					0					
			20	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	$\bigcirc$	$\triangle$	$\bigcirc$	0	0	$\bigcirc$
			40	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	×	$\bigcirc$	0	0	$\bigcirc$
			60	$\bigcirc$	$\bigtriangleup$	$\bigcirc$	0	$\bigcirc$		$\bigcirc$	$\bigcirc$	0	$\bigcirc$
		30	80		×	$\bigcirc$	$\bigtriangleup$	$\bigcirc$		$\bigcirc$	0	0	$\bigcirc$
			100				×	0					
			120					$\bigcirc$					
			20	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	×	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
			40	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	$\bigcirc$		$\bigcirc$	$\bigcirc$	0	$\bigcirc$
		50	60	O	$\bigtriangleup$	$\bigcirc$	$\triangle$	O		O	$\bigcirc$	0	$\bigcirc$
		00	80		×	0	×	$\bigcirc$		$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
			100					0					
			120	-	-	-	-	O	_	_		_	_
			20	0	0	0	0	0	0	0	×	0	$\left  \begin{array}{c} 0 \\  \end{array} \right $
			40	0	0	0	0	0	0	0		0	O
		3	60	0	0	0	0	0	0	$\bigtriangleup$			
			80										
			100										
Sodium hypochlorite	NaClO		120										
			20	0	0	$\bigcirc$	0	0	0	$\left  \begin{array}{c} 0 \\ 0 \end{array} \right $	×	$  \bigcirc$	$\left  \begin{array}{c} 0 \\ 0 \end{array} \right $
			40	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	$\bigcirc$	$\bigcirc$		$\triangle$	0
		5	60	0	0	$\bigtriangleup$	0	0	$\bigcirc$	$\bigtriangleup$			
			80						$\bigtriangleup$				
			100										
			120										



		Mate	erial		Pla	stic			]	Elast	ome	r	
Chemicals	emicals Concentr Formula	Te ation (%)	emp. °C	U P V C	C P V C	P P	P V D F	P T F E	F K M	E P D M	N B R	I I R	C S M
			20	Ô	$\bigcirc$	0	0	0	$\bigcirc$	0	×	0	0
			40	O	$\bigcirc$	$\bigtriangleup$	0	O	$\bigcirc$	$\bigtriangleup$		$\triangle$	$\triangle$
		7	60	$\bigcirc$	$\bigcirc$	$\bigtriangleup$	0	$\bigcirc$	$\bigcirc$	$\bigtriangleup$		×	$\triangle$
		<b>'</b>	80						$\bigtriangleup$				
			100										
			120										
			20	$\bigcirc$	0	$\bigcirc$	0	$\bigcirc$	0	×	×		×
			40	$\bigcirc$	$\bigcirc$	$\triangle$	$\bigcirc$	$\bigcirc$	$\bigcirc$			×	
Sodium hypochlorite	NaClO	10	60 80	0	0	$\bigtriangleup$	0	O	$\bigcirc$				
			100										
			120										
			20	0	$\bigcirc$	0	$\bigcirc$	0	0	×	×		×
			$\frac{20}{40}$	0	0	$\triangle$	0	0	0			×	
			60	0	0		0	0	$\overline{\bigcirc}$				
		13	80						$\bigtriangleup$				
			100										
			120										
			20	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
			40	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	0	0
Sodium silicate	Na2SiO3		60	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
bouldin bineate	Na25103		80		$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
			100				O	O	$\bigcirc$				
			120				0	0					
			20	0	0	0	0	0	0	0	0	0	$\bigcirc$
			40	0	0	0	0	0	0	0	0	0	$\bigcirc$
Sodium nitrate	NaNO3	Satu.	<u>60</u>	O	0	0	0	0	0	0	$\bigcirc$	0	O
			80 100				0	0	0	0	0		
			100				0	0					
			20	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	$\bigcirc$
			$\frac{20}{40}$	0	0	0	0	0	0	0	0	0	0
		_	60	$\overline{0}$	0	0	0	0	0	0	0	0	$\odot$
Sodium nitrite	NaNO <sub>2</sub>	Satu.	80		0	0	0	0	0	0	0	0	$\bigcirc$
			100		-	-	0	0	0				-
			120				0	0					
			20	0	$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	$\bigcirc$
			40	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	$\bigcirc$
Sodium phosphate	Na <sub>3</sub> PO <sub>4</sub>		60	O	$\bigcirc$	$\bigcirc$	0	O	$\bigcirc$	$\bigcirc$	0	0	O
r F	11431 04		80		0		0	0	0	$\bigcirc$	0		
			100				0	0	0				
			120				0	0					
			20	0	0	0	0	0	0	0	0	0	
			40	0	0	0	0	0	0	0	0	0	$\bigcirc$
Sodium sulfate	Na2SO4	Satu.	<u>60</u>	0	0	0	0	0	0	0	$\bigcirc$	0	$\bigcirc$
			80		O	O	0	$\bigcirc$	$\bigcirc$	O	0	O	0
			100				$\bigcirc$	$\bigcirc$	O				
			120				$\bigcirc$	$\bigcirc$					



	Mat	terial		Pla	stic			]	Elast	ome	er	
	T	emp.	Ų	Ċ	n	Р	P	F	E	N	Ι	C
Chemicals Chemicals Formula	Concentration (%)	°C	U P V C	C P V C	P P	P V D F	P T F E	F K M	E P D M	N B R	I I R	C S M
		20	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
		40	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Sodium sulfide Na <sub>2</sub> S		60	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\odot$
Na25		80		$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	0		
		100				$\bigcirc$	$\bigcirc$	0				
		120				$\bigcirc$	0					
		20	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	0	0
		40	0	$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$	$\bigcirc$	0	0	0
Sodium sulfite Na2SO3		60	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	0	0
Sodium sulfite Na2SO3	3	80		$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	$\bigcirc$			
		100				Ô	Ô					
		120				0	0					
		20	0	0	0	0	0	$\bigcirc$	0	0	0	$\bigcirc$
		$\frac{20}{40}$	0	0	0	0	0	0	0	0		+
		60	0	0	0	0	0	$\bigcirc$	0			
Stannous chloride SnCl2		80		$\circ$	$\circ$	0	0	0				
		-		$\cup$	$\cup$							
		100				0	0					
		120				0	0					
		20	0	0	0	0	0	0	0	0		$  \bigcirc$
		40	0	0	0	0	0	Ô		0		
Stearic acid CH3(CH2)160	гоон	60	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$		$ \circ $		
		80		0		$\bigcirc$	$\bigcirc$	$\bigtriangleup$				
		100				$\bigcirc$	$\bigcirc$					
		120				$\bigcirc$	$\bigcirc$					
		20	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$		$\bigcirc$	$  \bigcirc$
		40	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$			
Sulfur dioxide(Dry) SO2		60	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$		$\bigcirc$			
Sulfur dioxide(Dry)SO2		80		$\bigcirc$	$\bigcirc$	0	0		0			
		100				$\bigcirc$	0					
		120				$\bigcirc$	$\bigcirc$					
		20	0	$\bigcirc$	0	Ô	Ô	$\bigcirc$	$\bigcirc$		0	$\Box$
		40		0	0	0	0	0	0		0	$\overline{\bigcirc}$
		60	0	0	0	0	0	0	0			$\square$
Sulfur dioxide(Wet)SO2		80		0	0	0	0		0			
		100		$\bigcirc$		0	0					
		$-\frac{120}{20}$		~	~		$\bigcirc$	~	~	~		
		20	×	×	×	×	0	×	×	×		
		40										
Sulfur trioxide SO3		60										
		80										
		100										
		120										
		20		$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	Ø
		40	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	0	Ø
Sulfuric acid H <sub>2</sub> SO <sub>4</sub>	10	60	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	0	Ø
Sulfuric acid H <sub>2</sub> SO <sub>4</sub>	10	80		$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	0	C
			1	<u> </u>	<u> </u>				1	1	1	1
		100				$\bigcirc$	$\bigcirc$	$\bigcirc$				



		Mat	erial		Pla	stic			]	Elast	ome	er	
		Te	emp.	Ų	Ċ	n	Р	Р	F	Е	N	Ι	С
Chemicals	emicals Concer Formula	ntration (%)	°C	U P V C	C P V C	P P	P V D F	P T F E	F K M	E P D M	N B R	I I R	C S M
			20	0	$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	$\bigcirc$
			40	0	$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$	$\bigcirc$	0	0	0
		50	60	0	$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$	$\bigcirc$	0	0	0
		50	80		$\bigcirc$	$\bigcirc$	$\bigcirc$	0	$\bigcirc$	$\bigcirc$	$\bigtriangleup$	0	0
			100				$\bigcirc$	0	$\bigcirc$				
			120				$\bigcirc$	$\bigcirc$	$\bigcirc$				
			20	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	$\bigcirc$	$\bigcirc$	0	$\bigcirc$	0
			40	0	$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$	$\bigcirc$	0	0	0
		70	60	0	$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$	$\bigcirc$	0	0	0
		70	80		$\bigcirc$	$\bigcirc$	$\bigcirc$	0	$\bigcirc$	×	×	×	×
			100				$\bigcirc$	$\bigcirc$	$\bigcirc$				
			120				$\triangle$	0	$\bigtriangleup$				
			20	0	$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$	$\bigcirc$	0	0	0
			40	0	$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$	$\bigcirc$	0	0	0
Sulfuric acid	11-00		60	0	0	0	0	0	$\bigcirc$	0	$\triangle$	0	
Sulfuric actu	H2SO4	80	80		$\bigtriangleup$	0	$\bigcirc$	0	0	×	×	×	×
			100				0	0	$\triangle$				
			120				×	Ō					
			20	0	$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$	$\bigcirc$		$\overline{\bigcirc}$	$\overline{\bigcirc}$
			40	Õ	Ô	Õ	Ô	Ô	$\bigcirc$	$\bigcirc$		Ō	Ō
			60	0	Õ		0	0	Ô	$\triangle$	$\triangle$	$\overline{\mathbf{O}}$	$\triangle$
		90	80		$\triangle$		0	0	$\bigcirc$	×	×	×	×
			100				0	0	$\bigtriangleup$				
			120				×	0	×				
			20	0	$\bigcirc$	×	$\bigcirc$	0	×	×	×	×	×
			40	$\triangle$	$\bigtriangleup$		0	0					
			60	×	×		$\bigcirc$	0					-
		98	80	~	~			0					
			100				×	0					
			100					$\overline{0}$					
										$\bigcirc$			0
			20	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$			$\bigcirc$	
			40	0	0	0	0	0	0	$\bigcirc$		$\bigcirc$	$\bigcirc$
Sulfurous acid	H <sub>2</sub> SO <sub>3</sub>		<u>60</u>							$\bigcirc$		$\bigcirc$	
			80		0	O	$\bigcirc$	$\bigcirc$	$\bigcirc$		<u> </u>		
			100				O	0	$\bigtriangleup$				
			120					0		~			
			20	×	×		$\bigcirc$	0	O	×	×		×
			40				$\triangle$	0					
Sulfuryl chloride	SO <sub>2</sub> Cl <sub>2</sub>	Pure	60					0					
			80										
			100										<u> </u>
			120										
			20	0	0	0	0	0	O	0	0	0	$  \bigcirc$
			40	0	0	0	0	0					
Tannic acid	C76H52O46		60	0	0	0	0	0					
- unit utiu			80			$\bigcirc$	O	0					
			100 120				$\bigcirc$	$\bigcirc$					
							$\bigcirc$	$\bigcirc$					

	Material							Elastomer						
		Te	emp.	Ų	Ç	D	Р	Р	F	Е	N	Ι	С	
Chemicals	micals Concen Formula	tration (%)	°C	U P V C	C P V C	P P	P V D F	P T F E	F K M	E P D M	N B R	I I R	C S M	
	Tormula	(/0)	20	$\bigcirc$	Ľ	0	0	Ô	0	$\bigcirc$	0	0	$\bigcirc$	
			40	0		0	0	0	0	0	0	0	Ô	
Tortoria acid	CH(OH)COOH		60	Ô		Ô	0	Ô	Ô	Õ	Ô	Õ	Ô	
Tartaric acid	 CH(OH)COOH		80			0	0	0	$\bigcirc$		0		$\bigcirc$	
	CH(UH)CUUH		100				0	$\bigcirc$						
			120				0	$\bigcirc$						
			20	×	×	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	×	×	×	×	
			40				O	$\bigcirc$						
Tetrachloro ethane	Cl <sub>2</sub> CHCHCl <sub>2</sub>	Pure	60				0	0						
		1 41 0	80				0	0						
			100					0						
			120					0						
			20	0		0	0	$\bigcirc$	$\bigcirc$	×	0			
			40 60				0	0	0				-	
Tetraethyl lead	<b>Pb(C2H5)</b> 4	Pure	<u> </u>				0		$\bigcirc$					
			100				0	0					-	
			100				0	0						
			20	×	×	0		0	0	×	×	×	×	
Tetrahydrofuran			$\frac{20}{40}$			$\triangle$	×	0						
			60			×		0						
	C4H8O	Pure	80					$\bigcirc$						
			100											
			120											
			20	×	×	×	0	0	$\bigcirc$	×	×			
			40				0	$\bigcirc$						
Tetralin	C10H12	Pure	60				0	$\bigcirc$						
retruin		rure	80				$\bigcirc$							
			100											
			120											
			20	×	×	O	0	0	O	×	×	×	×	
			40			$\bigtriangleup$	0	0						
Toluene	C6H5CH3		60			×	0	0						
			80				Ô	$\bigcirc$						
			100				$\bigtriangleup$	$\bigcirc$						
			120	~				$\bigcirc$	~	$\cap$	~			
			<b>20</b> <b>40</b>	×		0	0	0	×	0	×	0	×	
			<u>40</u> 60			$\square$		0						
Tributyl phosphate	(C4H9O)3PO		80				×	0					-	
			100											
			120											
			20	$\triangle$		0	0	0	×	×	×	×	×	
			40			0	0	0						
Trichloroacetic acid	CCLCOOT		60			0	$\triangle$	Ô						
TICHIOI VALEUL ALIU	CCl <sub>3</sub> COOH		80				×							
			100											
			120											



		Material				stic		Elastomer						
		Te	emp.	Ų	Ç	D	Р	Р	Б	Е	N	Ι	C	
Chemicals	emicals Concent Formula	ration	°C	U P V C	C P V C	P P	P V D F	P T F E	F K M	E P D M	N B R	I I R	C S M	
Chemieurs		(/0)	20	X	X	0			0	X	×	×	X	
			40			$\triangle$	0	0	0					
m   11 .1 1			60			×	0	0	0					
Trichloroethylene	ClCH=CCl <sub>2</sub>		80				0	0	0					
			100				0	0						
			120					0						
			20	×	×	$\triangle$	$\bigcirc$	0	$\bigcirc$	$\bigcirc$	×		×	
			40					Ô						
Trianacul phaephata			60					Ô						
Tricresyl phosphate	(CH3C6H4O)3PO	Pure	80											
			100											
			120											
			20			$\bigcirc$	0	0	0	$\bigcirc$	0	0	0	
			40					0						
Triethanolamine			60					0						
methanolamme	(HOCH2CH2)3N		80					$\bigcirc$						
			100											
			120											
			20				0	$\bigcirc$	$\bigcirc$		×			
			40				0	$\bigcirc$						
Triethylamine			60				×	$\bigcirc$						
Themylanine	(C2H5)3N		80					$\bigcirc$						
			100											
			120											
			20	$\bigcirc$	$\bigcirc$	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	0			
			40	$\bigcirc$		$\bigtriangleup$	$\bigcirc$	$\bigcirc$	$\bigcirc$					
Turpentine			60	$\bigcirc$		×	$\bigcirc$	$\bigcirc$	$\bigcirc$					
Turpendic			80				$\bigcirc$	$\bigcirc$	$\bigcirc$					
			100				$\bigcirc$	$\bigcirc$						
			120				$\bigcirc$	$\bigcirc$						
			20		$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	
			40	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	
Urea	CO(NH <sub>2</sub> ) <sub>2</sub>	50	60	0	0	O	O	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	$\bigcirc$	
	CO(11112)2		80		0	0	0	0						
			100				O	0						
			120	-	-	-	0	0	_	_	_	-		
			20		0	0	0	0	0	0	0	0	0	
			40	0	0	0	0	0	0	Ô	0	0	$\bigcirc$	
** *			60	0	0	0	0	0	O	O	0	0	O	
Urine			80		O	O	0	0						
			100				0	0					<u> </u>	
			120				0	0						
			20	0	0	0	0	0	0	0		0	$\bigcirc$	
			40	0	0	0	0	0	0	0		0	$\bigcirc$	
Vinegar			60	0	0	0	0	0	O	O		0	$\bigcirc$	
			80		0	O	0	0						
			100				0	0					<u> </u>	
			120				$  \bigcirc$	$\bigcirc$						



	M	ſaterial		Pla	stic		Elastomer						
Chamierele	emicals Concentration Formula (%	Temp. n ℃	U P V C	C P V C	P P	P V D F	P T F E	F K M	E P D M	N B R	I I D	C S	
Chemicals	Formula (%	<i>י</i> ין י			-						R	M	
		<b>20</b> <b>40</b>	×	×		0	0	×	○ ×	×			
		<b>40</b> <b>60</b>				0	0		~				
Vinyl acetate	CH3COOCH=CH2	80				0	0						
		100				0	0						
		100				0	0						
		20	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$	$\bigcirc$	0	0	0	
		40	0	0	0	0	0	0	0	0	0	0	
D. 11 .		60	0	0	0	0	0	0	0	0	0	$\odot$	
Potable water		80		$\bigcirc$	0	0	0	Ô	Ô	Ô	0	Ô	
		100				0	0						
		120				0	0						
		20	×	×	×	Ô	$\bigcirc$	0	×	$\triangle$	×	×	
		40				0	0						
Vulono		60				0	0						
Xylene	C6H4(CH3)2	80				0	$\bigcirc$						
		100				0	$\bigcirc$						
		120					$\bigcirc$						
		20	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	0	$\bigcirc$	
		40	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$		0	$\bigcirc$	
Zinc chloride	ZnCl <sub>2</sub>	60	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$		$\bigcirc$	$\bigcirc$	
Zine emonue	ZnCl2	80		$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$		$\bigcirc$	$\bigcirc$	
		100				0	0	$\bigcirc$					
		120				0	0						
		20	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$		
		40	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$		
Zinc nitrate	Zn(NO3)2 · 6H2O	60	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$		
Zine muute	211(1103)2 01120	80		$\bigcirc$	$\bigcirc$	$\bigcirc$	O	$\bigcirc$	$\bigcirc$	0			
		100				O	O	$\bigcirc$					
		120				$\bigcirc$	$\bigcirc$						
		20		$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	
		40	O	$\bigcirc$	O	O	O	$\bigcirc$	$\bigcirc$	O	O	O	
Zinc sulfate	ZnSO4	60	0	0	0	0	0	0	0	0	0	0	
		80		$\bigcirc$	0	0	0	0	$\bigcirc$	0	0	O	
		100				0	0	O					
		120				0	0						
			-										
			-										
			-										
			-										
			-										
			-										

AV-T-001-E 2019.07 AEG202003v1



# **Chemical Resistance Guide**

## Viflon<sup>®</sup> (FKM-F, FKM-C)





#### 《MARKS》

🕽	
) Slight effect	
∖ ······ Noticeable effect	
< ····· Severe effect	
Blank space Not confirmed or no actual result	
Pure	
atu The term "Satu"indicates a concentration such that the solution is saturated at every	
working temperature.	



### CHEMICAL RESISTANCE ON Viflon® (FKM-F / FKM-C)

This chemical resistance manuals is the result of our own evaluation based on immersion tests, literature and accumulated field experience.

The results listed are to be used as reference material only. No recommendation or guarantee of material selection is expressed or implied.

Since chemical resistance is affected by actual operating conditions such as pressure, temperture, stress, period of time, vibration and other folow related parameters.

It is suggested that trial installations or test specimens be evaluated under actual process conditions.

\*Viflon®F is superior to other rubber materials for inorganic acid such as HNO3, HF, HCl. Viflon®C is superior to other rubber materials for media containing NaClO, ClO2.

	Concent-	Temp.	FKM	Vifl FKM	on® -F/C		Concent-							Temp.	FKM	Viflo FKM-	on® F/C
Chemicals	ration	(ື ວຳ)		F	С	Chemicals	ration	( ື 🖒		F	С						
		20	$\bigcirc$	$\bigcirc$	$\bigcirc$			20	$\bigcirc$	$\bigcirc$	$\bigcirc$						
		40	$\bigcirc$	$\bigcirc$	$\bigcirc$			40	$\bigcirc$	$\bigcirc$	$\bigcirc$						
	20%	60	$\bigcirc$	$\bigcirc$	$\bigcirc$		20%	60	$\bigcirc$	$\bigcirc$	$\bigcirc$						
	2070	80	0	$\bigcirc$	0		2070	80	0	$\bigcirc$	0						
		100	$\bigtriangleup$	$\bigcirc$	$\triangle$			100	$\bigtriangleup$	$\bigtriangleup$	$\triangle$						
		120				Chromic		120									
		20	$\bigcirc$	0	0			20	$\bigcirc$	$\bigcirc$	0						
		40	Ô	0	0	anhydride		40	$\bigcirc$	$\bigcirc$	0						
Hydrochloric acid	25%	60	0	0	0	C = O a	30%	60	$\bigcirc$	$\bigcirc$	0						
	2370	80	0	0	0	CrO3	30%	80	0	0	0						
		100	$\triangle$	0	$\triangle$			100	$\bigtriangleup$	$\bigtriangleup$	$\triangle$						
		120						120									
HCI		20	0	0	0			20	0	$\bigcirc$	0						
		40	×	0	0			40	0	$\bigcirc$	0						
	35%	60	×	0	0		50%	60	0	0	0						
	33%	80		0	0		5070	80	$\bigtriangleup$	$\bigtriangleup$	$\triangle$						
		100						100									
		120						120									
		20	0	0	0			20	0	$\bigcirc$	0						
		40	×	0	0			40	0	$\bigcirc$	0						
	200/	60	×				1.00/	60	$\triangle$	0	$\triangle$						
	38%	80					10%	80	×		×						
		100						100									
		120						120									
		20	×	0	0	A		20	0	0	0						
By-product		40		0	0	Acetic acid		40	$\triangle$	0	$\triangle$						
HCI	250/	60					2007	60	$\triangle$	$\bigtriangleup$	$\triangle$						
	35%	80					20%	80	×	×	×						
		100						100									
		120				СН3СООН		120									
		20	$\bigcirc$	0	0			20	$\triangle$	$\triangle$	$\triangle$						
Chromic		40	Ô	Ô	Ô			40	×	×	×						
anhydride	100/	60	0	0	0		500/	60									
	10%	80	0	0	0		50%	80									
CrO3		100	$\bigtriangleup$	$\triangle$	$\triangle$			100									
		120						120									



Chemicals	Concent-	Temp.	FKM	Vifle FKM-	·F/C	Chemicals	Concent-	Temp.	FKM	Vifle FKM-	-F/C
Chemicais	ration	(°C)		F	C	Chemicais	ration	(ີ ຕຳ)		F	C
		20	×	×	×			20	O	$\bigcirc$	0
		40						40	$\bigtriangleup$	$\bigcirc$	
	80%	60					95%	60	$\bigtriangleup$	$\bigtriangleup$	
	8070	80					9370	80			
Acetic acid		100						100			
		120						120			
		20	x	×	×			20	0	$\bigcirc$	
		40				Sulfuric acid		40	$\triangle$	$\triangle$	×
СН3СООН		60						60	×	×	
0111000011	90%	80					96%	80	~	~	
		100						100			
						H2SO4					
		120						120			
		20	0	0	0			20	×	0	×
		40	O	0	0			40		$\bigtriangleup$	
	30%	60	$\bigtriangleup$	$\bigcirc$			*98%	60			
	5070	80	×	$\bigcirc$			1. 7070	80			
		100	×	0				100			
		120						120			
		20	0	0	$\bigcirc$			20	×	×	×
		40	0	$\bigcirc$	0			40			
		60	X	0		Ammonia gas		60			
	50%	80	X	$\triangle$			100%	80			
		100		×		NH3		100			
Nitric acid		120		^				120			
									$\bigcirc$	$\frown$	
		20		0	Ô			20	Ô	<u> </u>	C
		40	×	0	$\bigtriangleup$			40	$\bigtriangleup$	$\bigtriangleup$	
HNO3	70%	70% 60		0			10%	60	×	×	×
		80					10%	80			
		100						100			
		120						120			
		20	×	×	×			20	0	$\bigcirc$	C
		40				Ammonia water		40	$\bigtriangleup$	$\bigtriangleup$	
	000/	60						60	×	х	×
	98%	80				NH4OH	30%	80			
		100						100			
		120						120			
		20	$\bigcirc$	$\bigcirc$	$\bigcirc$			20	0	0	C
		40	0	0	0			40	$\bigtriangleup$	$\triangle$	
			0	0	0			60			
	90%	60 80					40%		×	×	×
			0	<u> </u>	$\triangle$			80			
		100	$\bigtriangleup$	$\bigtriangleup$	×			100			
		120	X	×				120			
		20	$\bigcirc$	O	O			20	$\bigtriangleup$	$\bigcirc$	C
C1f 1		40	$\bigcirc$	$\bigcirc$	0			40	$\bigtriangleup$	0	C
Sulfuric acid	93%	60	0	$\bigcirc$	$\bigtriangleup$		5%	60	×	$\bigtriangleup$	
	7570	80	0	$\bigcirc$	×	Sodium	570	80			
H2SO4		100	×	$\bigtriangleup$		hydroxide		100			
		120		×		II y UI OAIUC		120			
		20	$\bigcirc$	0	0			20	$\triangle$	0	C
		40	0	0	0	NaOH		40	$\triangle$	0	C
		60	$\bigtriangleup$	0	$\triangle$			60	×	$\triangle$	
	94%	80					10%		~	$\square$	
			$\bigtriangleup$	$\bigtriangleup$	×			80			
		100						100			
		120						120			



	Concent-	Temp.	FKM	Vifl FKM	on® -F/C			Concent-	Temp.	FKM	Viflo FKM-	on® -F/C
Chemicals	ration	(°C)		F	С	Ch	emicals	ration	(°C)		F	C
		20	$\triangle$	0	0				20	0	$\bigcirc$	0
		40	$\triangle$	0	0				40	0	O	C
	15%	60	×	$\triangle$	$\triangle$			E0/	60	0	0	C
	15%	80						5%	80	$\triangle$	$\triangle$	C
		100							100			
		120							120			
Sodium		20	$\triangle$	0	0				20	$\bigcirc$	$\bigcirc$	0
hydroxide		40	×	0	0				40	0	0	0
IIyuIOxiuc	30%	60					odium	7%	60	0	0	C
	30%	80				hypo	ochlorite	1 70	80	$\triangle$	$\bigtriangleup$	C
NaOH		100							100			
		120				N	laClO		120			
		20	×	×	×				20	0	0	C
		40							40	0	0	C
	500/	60						1.00/	60	0	0	C
	50%	80						10%	80	$\triangle$	$\triangle$	С
		100							100			
		120							120			
		20	0	0					20	0	0	6
		40	Õ	0					40	Õ	Õ	C
	000/	60	0	0				100/	60	0	0	C
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0				13%	80	$\triangle$	$\triangle$	C		
		100							100			
		120							120			-
Hydrogen		20	0	0					20	0	$\bigcirc$	C
peroxide		40	Ô	0					40		0	Ô
r	35% -	60	$\triangle$	0		01	1 .	12	60		Ô	Ô
		80		$\triangle$			Chlorine dioxide	ppm	80		0	0
		100				dı	oxide	1.1.	100			
H2O2		120							120			
		20	$\triangle$	0					20	X	×	C
		40	×	$\triangle$			210.		40			C
		60		×			2102		60			
	50%	80						1.40%	80			
		100							100			
		120							120			<u> </u>
		20	$\triangle$	0	0				20	0	$\bigcirc$	C
Chlorine water		40	×	0	0				40	0	Ô	Ô
	400	60		$\triangle$	0			100/	60	Ô	0	Ô
C1 2	ppm	80			$\triangle$			10%	80	0	0	C
	1. P	100							100	0	0	
		120							120			+
		20	×		0				20	0	$\bigcirc$	C
Chlorine gas (wet)		40							40	0	0	C
		60				Hydroi	fluoric acid		60	0	0	C
C1 2		80						30%	80	0	0	
C12		100					HF		100		0	<u> </u>
		120							120			+
0		20	$\bigcirc$	0	0				$\frac{120}{20}$	0	$\bigcirc$	C
Sodium		40	0	0	0				40	0	0	C
hypochlorite		60	0	0	0				$\frac{40}{60}$	0	0	
	3%	80	$\triangle$					40%	80	0	0	
NaClO		100									0	
									100		$\cup$	-
		120							120			



Chamier	Concent-	Temp.	FKM	Viflo FKM-	on® F/C
Chemicals	ration	(		F	С
		20	0	$\bigcirc$	$\bigcirc$
		40	$\bigcirc$	$\bigcirc$	$\bigcirc$
Hydrofluoric acid	55%	60	$\bigcirc$	$\bigcirc$	0
HF	0070	80	0	$\bigcirc$	$\triangle$
	-	100		0	
		120			
		20	$\triangle$	$\bigcirc$	$\triangle$
	150	40	$\triangle$	0	$\triangle$
HNO3	g/ℓ	60	X	0	×
+	$^{+}_{200}$	80	×	0	×
HF	200 g/l	100			
111'	g/ v	120			
		20	$\triangle$	0	
65% HNO3		40	×	0	
+		60	X	0	
35% HCI	5:1:4	80	~	9	
+		100			
Water		120			
mo		$\frac{120}{20}$	×	$\bigcirc$	
HNO3	-	$\frac{20}{40}$	^	$\bigcirc$	
+					
$_{ m HF}$	3:1:2	60			
+		80			
CH3COOH		100			
		120			
	-	20		0	
		40		0	
67.7% HF	1:20	60			
+		80			
55% HNO3		100			
		120			
		20	$\bigtriangleup$	$\bigcirc$	
	-	40		$\bigcirc$	
Aqua regia		60			
riqua regia		80			
		100			
		120			
		20	0	$\bigcirc$	
		40		$\bigcirc$	
		60		0	
Etchant for Al		80			
		100			
		120			
		20	0	$\bigcirc$	
		40		Õ	
Etchant for ITO		60		0	
Element for 110	-	80		-	
		100			
		120			
		$\frac{120}{20}$	0	$\bigcirc$	
	-	40		0	
		60		0	
				<li>\ /</li>	1
Etchant for Cr					
Etchant for Cr		80 100			

01 1	Concent-	Temp.	FKM	Viflon <sup>®</sup> FKM-F / C			
Chemicals	ration	(°C)		F	С		
		20	$\triangle$	$\bigcirc$			
		40		0			
Methylene		60					
chloride		80					
CH2Cl2		100					
		120					
		20	×	×	×		
		40					
Acetone		60					
Acctone		80					
		100					
		120					

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