

# CHEMICAL COMPATIBILITY TABLE

## EMEC Chemical Compatibility Table

Solenoid driven metering pumps are widely used to dose chemical fluids and it is important that the most suitable material in contact with fluid is selected for each application. This compatibility table serves as a useful help in this respect. All the informations in this list are verified periodically and believed to be correct on the date of issuance. All the informations in this list are based on manufacturer's data and our own experience but since the resistance of any material depends by several factors this list is supplied only as an initial guide, in no way EMEC makes warranties of any matter respect to the informations provided in this list.

### Resistance rating

Resistant	1
Fairly resistant	2
Not resistant	3
Not enough data known	-

### Materials

Polyvinylidene fluoride	PVDF	Pump Heads, valves, fitting, tubing
Polypropylene	PP	Pump Heads, valves, fitting, level floater
PVC	PVC	Pump Heads
Stainless steel	SS 316	Pump Heads, valves
Polymethyl Metacrilate (Acrylic)	PMMA	Pump Heads
Hastelloy C-276	Hastelloy	Injection valve spring
Polytetrafluoroethylene Fluorocarbon (Viton® B)	PTFE FPM	Diaphragm Sealings
Ethylene propylene	EPDM	Sealings
Nitrile	NBR	Sealings
Polyethylene	PE	Tubing

Rel:29/01/04

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Chemical	Formula	PVDF	PP	PVC	SS 316	PMMA	Hastelloy	PTFE	FPM	EPDM	NBR	PE
Linoleic Acid		1	-	1	1	-	-	1	1	-	2	-
Linseed Oil		1	1	1	-	-	1	1	1	2	1	3
Lithium Bromide (Brine)	LiBr	1	1	1	1	1	1	1	1	1	1	1
Lithium Chloride	LiCl	1	1	1	3	1	-	1	1	1	1	1
Lithium Salts		1	1	1	-	-	-	1	-	1	-	1
<b>Magnesium Carbonate</b>	MgCO <sub>3</sub>	1	1	1	1	1	1	1	1	1	-	1
Magnesium Chloride	MgCl <sub>2</sub>	1	1	1	3	1	1	1	1	1	1	1
Magnesium Hydroxide	Mg(OH) <sub>2</sub>	1	1	1	1	1	1	1	1	1	2	1
Magnesium Nitrate	Mg(NO <sub>3</sub> ) <sub>2</sub>	1	1	1	1	1	1	1	1	1	-	1
Magnesium Sulphate (Epsom Salts)	MgSO <sub>4</sub>	1	1	1	1	1	1	1	1	1	1	1
Maleic Acid	C <sub>4</sub> H <sub>4</sub> O <sub>4</sub>	1	1	1	1	1	1	1	1	1	1	1
Malic Acid	C <sub>4</sub> H <sub>6</sub> O <sub>5</sub>	1	1	1	1	1	1	1	1	1	1	1
Manganese-II-Chloride	MnCl <sub>2</sub>	1	1	1	3	1	1	1	1	1	3	1
Manganese-II-Sulphate	MnSO <sub>4</sub>	1	1	1	1	1	1	1	1	1	3	1
Mercury	Mg	1	1	1	1	1	1	1	1	1	1	1
Mercury-II-Chloride (Sublimate)	HgCl <sub>2</sub>	1	1	1	3	1	1	1	1	1	1	1
Mercury-II-Cyanide	Hg(CN) <sub>2</sub>	1	1	1	1	1	1	1	1	1	3	1
Mercury-II-Nitrate	Hg(NO <sub>3</sub> ) <sub>2</sub>	1	1	1	1	1	1	1	1	1	3	1
Mesityl Oxide	C <sub>6</sub> H <sub>10</sub> O	-	-	3	1	3	1	1	3	2	3	2
Methacrylic Acid	C <sub>3</sub> H <sub>5</sub> COOH	1	1	-	1	-	1	1	3	2	3	1
Methanol	CH <sub>3</sub> OH	1	1	1	1	3	1	1	2	1	4	1
Methoxybutanol	CH <sub>3</sub> O(CH <sub>2</sub> ) <sub>4</sub> OH	1	1	3	1	3	1	1	1	3	1	1
Methylacetate	CH <sub>3</sub> COOCH <sub>3</sub>	1	1	3	1	3	1	1	3	2	3	1
Methylacrilate	C <sub>2</sub> H <sub>3</sub> COOCH <sub>3</sub>	1	1	3	1	3	1	1	3	2	3	1
Methylbenzoate	C <sub>6</sub> H <sub>5</sub> COOCH <sub>3</sub>	3	1	3	1	3	1	1	1	3	3	1
Methylcatechol	C <sub>6</sub> H <sub>3</sub> (OH) <sub>2</sub> CH <sub>3</sub>	1	1	1	1	1	1	1	1	3	-	1
Methylcellulose		1	1	1	1	1	1	1	3	1	2	1
Methylchloroacetate	ClCH <sub>2</sub> COOCH <sub>3</sub>	1	1	3	1	3	1	1	3	1	3	1
Methylcyclopentane	C <sub>5</sub> H <sub>9</sub> CH <sub>3</sub>	1	1	1	1	1	1	1	1	3	-	1
Methyldichloroacetate	Cl <sub>2</sub> CHCOOCH <sub>3</sub>	-	1	3	1	3	1	1	3	-	-	1
Methyl Ethyl Ketone (MEK)	CH <sub>3</sub> COOC <sub>2</sub> H <sub>5</sub>	3	1	3	1	3	1	1	3	1	3	1
Methylglycol	C <sub>3</sub> H <sub>8</sub> O <sub>2</sub>	1	1	1	1	1	1	1	3	2	-	1

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Chemical	Formula	PVDF	PP	PVC	SS 316	PMMA	Hastelloy	PTFE	FPM	EPDM	NBR	PE
<b>Barium Carbonate</b>	BaCO <sub>3</sub>	1	1	1	1	1	1	1	1	1	3	1
Barium Chloride	BaCl <sub>2</sub>	1	1	1	3	1	1	1	1	1	1	1
Barium Hydroxide	Ba(OH) <sub>2</sub>	1	1	1	1	1	1	1	1	1	1	1
Barium Nitrate	Ba(NO <sub>3</sub> ) <sub>2</sub>	1	1	1	1	1	1	1	1	1	3	1
Barium Sulphate	BaSO <sub>4</sub>	1	1	1	1	1	1	1	1	1	1	1
Barium Sulphide	BaS	1	1	1	1	1	1	1	1	1	1	1
<b>Chemical</b>	<b>Formula</b>	<b>PVDF</b>	<b>PP</b>	<b>PVC</b>	<b>SS 316</b>	<b>PMMA</b>	<b>Hastelloy</b>	<b>PTFE</b>	<b>FPM</b>	<b>EPDM</b>	<b>NBR</b>	<b>PE</b>
Beer		1	1	1	1	1	1	1	1	1	1	1
Beet Sugar Liquors		1	1	1	1	1	-	1	1	1	1	1
Benzaldehyde	C <sub>6</sub> H <sub>5</sub> CHO	1	1	3	1	3	1	1	3	1	3	3
Benzene	C <sub>6</sub> H <sub>6</sub>	1	3	3	1	3	1	1	1	3	3	3
Benzene Sulphonic Acid	C <sub>6</sub> H <sub>5</sub> SO <sub>3</sub> H	1	1	-	1	-	1	1	1	3	3	-
Benzoic Acid	C <sub>6</sub> H <sub>5</sub> COOH	1	1	2	2	1	2	1	1	1	1	1
Benzoyl Chloride	C <sub>6</sub> H <sub>5</sub> COCl	1	3	-	2	3	1	1	1	1	-	3
Benzyl Benzoate	C <sub>6</sub> H <sub>5</sub> COOC <sub>7</sub> H <sub>7</sub>	3	1	3	1	3	1	1	1	3	3	1
Benzyl Chloride	C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub> Cl	1	3	3	2	3	1	1	1	3	3	3
Bismuth Carbonate		1	1	1	-	1	-	1	1	1	3	1
Bitter Salt (Magnesium Sulphate)		1	1	1	1	1	2	1	1	1	-	1
Black Liquor		1	1	1	2	1	-	1	1	1	2	1
Bleach 5.25% Active Chlorine		1	1	1	3	1	1	1	1	1	2	1
Blue Vitriol (Copper Sulphate)		1	1	1	1	1	1	1	1	1	1	1
Borax TM (Sodium Tetraborate)		1	1	1	2	1	1	1	1	1	-	1
Boric Acid	H <sub>3</sub> BO <sub>3</sub>	1	1	1	2	1	1	1	1	1	1	1
Brine		1	1	2	2	1	1	1	1	1	1	1
Bromine	Br <sub>2</sub>	1	3	3	3	3	1	1	1	3	3	3
Bromine Water	Br <sub>2</sub> + H <sub>2</sub> O	1	3	2	3	3	-	1	1	3	3	3
Bromic Acid	HBrO <sub>3</sub>	1	1	1	-	-	-	1	3	1	3	1
Bromo Benzene	C <sub>6</sub> H <sub>5</sub> Br	1	3	-	1	-	1	1	1	3	3	3
Bromochloro Methane	CH <sub>2</sub> BrCl	1	3	3	1	3	1	1	2	2	-	3
Bromochlorotrifluoro Ethane	HCClBrCF <sub>3</sub>	1	3	3	1	3	1	1	1	3	-	3
Butanediol	HOC <sub>4</sub> H <sub>8</sub> OH	1	1	1	1	-	1	1	3	1	1	1
Butanetriol	C <sub>4</sub> H <sub>10</sub> O <sub>3</sub>	1	1	1	1	1	1	1	3	1	-	1
Butanol (Buthil Alcohol)	C <sub>4</sub> H <sub>9</sub> OH	1	1	1	1	3	1	1	3	2	3	1
Butyl Acetate	CH <sub>3</sub> COOC <sub>4</sub> H <sub>9</sub>	1	3	3	1	3	1	1	3	2	3	3
Butyl Acrylate	C <sub>7</sub> H <sub>13</sub> O <sub>2</sub>	1	1	3	1	3	1	1	3	3	3	1
Butyl Amine	C <sub>4</sub> H <sub>9</sub> NH <sub>2</sub>	3	3	3	2	3	1	1	3	3	1	2
Butyl Benzoate	C <sub>6</sub> H <sub>5</sub> COOC <sub>4</sub> H <sub>9</sub>	-	3	3	1	3	1	1	1	1	3	3

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Chemical	Formula	PVDF	PP	PVC	SS 316	PMMA	Hastelloy	PTFE	FPM	EPDM	NBR	PE
Butyl Bromide		1	3	3	2	3	-	1	-	-	-	3
Butyl Chloride		1	3	3	2	3	-	1	1	3	1	3
Butyl Mercaptane	C <sub>4</sub> H <sub>9</sub> SH	1	-	-	-	-	-	1	2	3	3	-
Butyl Oleate	C <sub>22</sub> H <sub>42</sub> O <sub>2</sub>	1	-	-	1	-	1	1	1	2	3	-
Butyl Stearate	C <sub>22</sub> H <sub>44</sub> O <sub>2</sub>	1	-	-	1	3	1	1	1	3	2	-
Butyraldehyde	C <sub>3</sub> H <sub>7</sub> CHO	-	1	-	1	-	1	1	3	2	3	1
Butyric Acid	C <sub>3</sub> H <sub>7</sub> COOH	1	1	3	1	3	1	1	1	1	1	1
<b>Calcium Acetate</b>	(CH <sub>3</sub> COO) <sub>2</sub> Ca	-	1	1	1	1	1	1	3	1	2	1
Calcium Bisulphite	Ca(HSO <sub>3</sub> ) <sub>2</sub>	1	1	1	1	1	1	1	1	1	1	1
Calcium Carbonate	CaCO <sub>3</sub>	1	1	1	1	1	1	1	1	1	1	1
Calcium Chlorate	Ca(ClO <sub>3</sub> ) <sub>2</sub>	1	1	-	1	1	-	1	-	-	3	1
Calcium Chloride	CaCl <sub>2</sub>	1	1	1	3	1	1	1	1	1	1	1
Calcium Cyanide	Ca(CN) <sub>2</sub>	1	1	1	-	1	-	1	1	1	1	1
Calcium Hydroxide (Lime Milk) (Slaked Lime)	Ca(OH) <sub>2</sub>	1	1	1	1	1	1	1	1	1	1	1
Calcium Hypochlorite (Chlorinated Lime)	Ca(OCl) <sub>2</sub>	1	1	1	3	1	1	1	1	1	3	1
Calcium Nitrate (Nitrate of Lime)	Ca(NO <sub>3</sub> ) <sub>2</sub>	1	1	1	1	1	1	1	1	1	1	1
Calcium Phosphate	Ca <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub>	1	1	1	1	1	1	1	1	1	1	1
Calcium Sulphate (Gypsum)	CaSO <sub>4</sub>	1	1	1	1	1	1	1	2	1	3	1
Calcium Sulphide	CaS	1	1	1	-	1	1	1	1	1	1	1
Calcium Sulphite	CaSO <sub>3</sub>	1	1	1	1	1	1	1	1	1	1	1
Calcium Thiosulphate	CaS <sub>2</sub> O <sub>3</sub>	1	1	1	3	1	1	1	1	1	2	1
Carbon Disulphide	CS <sub>2</sub>	1	3	3	2	3	1	1	1	3	3	3
Carbon Tetrachloride (Tetrachloromethane)	CCl <sub>4</sub>	1	3	2	1	3	1	1	1	3	3	3
Carbonic Acid	H <sub>2</sub> CO <sub>3</sub>	1	1	1	1	1	1	1	1	1	2	1
Castor Oil		1	1	1	1	1	-	1	1	2	1	1
Chloral Hydrate	CCl <sub>3</sub> -CH(OH) <sub>2</sub>	1	-	-	-	-	-	1	1	2	3	-
Chloric Acid	HClO <sub>3</sub>	1	3	1	3	1	1	1	3	2	3	2
Chlorine Dioxide Solution	ClO <sub>2</sub> + H <sub>2</sub> O	1	2	1	3	3	1	1	1	3	3	2
Chlorine Water	Cl <sub>2</sub> + H <sub>2</sub> O	1	2	1	3	3	1	1	1	1	3	2
Chloroacetic Acid	ClCH <sub>2</sub> COOH	1	3	3	3	-	1	1	3	2	3	3
Chlorox TM (Bleach 5.25% Active)		1	1	1	3	1	1	1	1	1	2	1
Chlorobenzene	C <sub>6</sub> H <sub>5</sub> Cl	1	1	3	1	3	1	1	1	3	3	3
Chloroethanol	ClCH <sub>2</sub> CH <sub>2</sub> OH	3	1	3	1	3	1	1	3	3	-	1
Chloroethylbenzene	C <sub>6</sub> H <sub>4</sub> ClC <sub>2</sub> H <sub>5</sub>	-	3	3	1	3	1	1	1	3	2	3
Clorophenole	C <sub>6</sub> H <sub>4</sub> OHCl	1	1	-	1	3	1	1	-	3	-	1
Chlorotoluene	C <sub>7</sub> H <sub>8</sub> Cl	1	-	3	1	3	1	1	1	3	-	-
Chloroacetone	ClCH <sub>2</sub> COCH <sub>3</sub>	-	-	3	1	3	1	1	3	1	-	-
Clorobutadiene (Chloroprene)	C <sub>4</sub> H <sub>5</sub> Cl	-	-	3	1	3	1	1	1	3	-	-

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Chemical	Formula	PVDF	PP	PVC	SS 316	PMMA	Hastelloy	PTFE	FPM	EPDM	NBR	PE
Chloroform (Trichloromethane)	CHCl <sub>3</sub>	1	3	3	1	3	1	1	1	3	3	3
Chlorohydrin	C <sub>3</sub> H <sub>5</sub> OCl	3	1	-	1	3	1	1	1	3	-	1
Chlorosulphonic Acid	SO <sub>2</sub> (OH)Cl	3	3	2	3	3	1	1	3	3	3	3
Chromic Acid, 50%	H <sub>2</sub> CrO <sub>4</sub>	1	1	1	3	3	3	1	1	3	3	1
Chromic Acid, 30%	H <sub>2</sub> CrO <sub>4</sub>	1	1	1	2	3	3	1	1	3	3	1
Chromic Acid, 10%	H <sub>2</sub> CrO <sub>4</sub>	1	1	1	1	3	1	1	1	3	3	1
Chromic-Sulphuric Acid	K <sub>2</sub> CrO <sub>4</sub> + H <sub>2</sub> SO <sub>4</sub>	1	3	1	-	3	-	1	-	-	3	3
Chromium Sulphate	Cr <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub>	1	1	1	1	1	1	1	1	1	-	1
Citric Acid	C <sub>6</sub> H <sub>8</sub> O <sub>7</sub>	1	1	1	1	1	1	1	1	1	1	1
Cobalt Chloride	CoCl <sub>2</sub>	1	1	1	3	1	1	1	1	1	1	1
Copper-II-Acetate	Cu(CH <sub>3</sub> COO) <sub>2</sub>	1	1	1	1	1	1	1	3	1	2	1
Copper-II-Arsenite	Cu <sub>3</sub> (AsO <sub>3</sub> ) <sub>2</sub>	1	1	1	1	1	1	1	1	1	-	1
Copper-II-Carbonate	CuCO <sub>3</sub>	1	1	1	1	1	1	1	1	1	1	1
Copper-II-Chloride	CuCl <sub>2</sub>	1	1	1	-	1	1	1	1	1	1	1
Copper-II-Cyanide	Cu(CN) <sub>2</sub>	1	1	1	1	1	1	1	1	1	1	1
Copper-II-Fluoride	CuF <sub>2</sub>	1	1	1	1	1	1	1	1	1	-	1
Copper -II-Nitrate	Cu(NO <sub>3</sub> ) <sub>2</sub>	1	1	1	1	1	2	1	1	1	1	1
Copper-II-Sulphate (Roman Vitriol)	CuSO <sub>4</sub>	1	1	1	1	1	1	1	1	1	1	1
Corn Oil		1	1	1	1	1	-	1	1	-	1	1
Cottonseed Oil		1	1	1	1	1	-	1	1	2	1	1
Cresol (Metyl Phenol)		1	3	3	1	3	1	1	1	3	-	3
Cresylic Acid	C <sub>6</sub> H <sub>4</sub> CH <sub>3</sub> OH	1	1	2	1	3	2	1	1	3	3	1
Crotonaldehyde	CH <sub>3</sub> C <sub>2</sub> H <sub>2</sub> CHO	1	1	3	1	-	1	1	3	1	3	1
Crude Oil		1	3	-	2	-	-	1	1	3	2	3
Cyclo Hexane	C <sub>6</sub> H <sub>12</sub>	1	1	3	1	1	3	1	1	3	1	1
Cyclohexanole (Cyclohexyl Alcohol)	C <sub>6</sub> H <sub>11</sub> OH	1	1	2	1	3	1	1	1	3	1	1
Cyclohexanone	C <sub>6</sub> H <sub>10</sub> O	1	1	3	1	3	1	1	3	2	3	1
Cyclohexylamine	C <sub>6</sub> H <sub>11</sub> NH <sub>2</sub>	-	-	-	1	-	1	1	3	3	1	-
<b>Decahydronaphthalene (Decaline)</b>	C <sub>10</sub> H <sub>18</sub>	1	3	2	-	3	1	1	3	3	3	3
Detergents, General		1	1	1	1	1	1	1	1	3	-	1
Diacetone alcohol	C <sub>6</sub> H <sub>12</sub> O <sub>2</sub>	1	1	3	1	3	1	1	3	1	2	1
Dibromoethane (Ethylene Dibromide)	C <sub>2</sub> H <sub>4</sub> Br <sub>2</sub>	1	-	3	1	3	1	1	1	3	-	3
Dybutil Ether	C <sub>4</sub> H <sub>9</sub> OC <sub>4</sub> H <sub>9</sub>	1	1	3	1	3	1	1	3	3	3	1
Dibutyl Phthalate	C <sub>16</sub> H <sub>22</sub> O <sub>4</sub>	1	1	3	1	3	1	1	1	2	3	3
Dibutylamine	(C <sub>4</sub> H <sub>9</sub> ) <sub>2</sub> NH	1	1	-	1	-	1	1	3	3	-	1
Dichloroacetic acid	Cl <sub>2</sub> CHCOOH	1	1	1	1	3	1	1	3	1	3	1
Dichlorobenzene	C <sub>6</sub> H <sub>4</sub> Cl <sub>2</sub>	1	3	3	1	3	1	1	1	3	3	3

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Chemical	Formula	PVDF	PP	PVC	SS 316	PMMA	Hastelloy	PTFE	FPM	EPDM	NBR	PE
Dichlorobutane	$C_4H_8Cl_2$	1	3	3	1	3	1	1	1	3	3	3
Dichlorobutene	$C_4H_6Cl_2$	1	3	3	1	3	1	1	1	3	3	3
Dichloroethane (Ethylene Dichloride)	$C_2H_4Cl_2$	1	3	3	1	3	1	1	1	3	3	3
Dichloroethylene (Acetylene Dichloride)	$C_2H_2Cl_2$	1	3	3	1	3	1	1	1	3	3	3
Dichloro Methane (Methylene Chloride)	$CH_2Cl_2$	3	3	3	3	3	1	1	1	3	3	3
Dichloroisopropyl Ether	$(C_3H_6Cl)_2O$	-	3	3	1	3	1	1	3	3	-	3
Dicyclohexylamine	$(C_6H_{12})_2NH$	-	3	3	1	3	1	1	3	3	-	3
Diesel Fuel		1	1	1	1	1	1	1	1	-	1	3
Diethylene Glycol	$C_4H_{10}O_3$	1	1	1	1	1	1	1	1	1	1	1
Diethyleneglycolethyl Ether	$C_8H_{18}O_3$	1	1	-	1	-	1	1	-	2	-	1
Diethylether	$C_2H_5OC_2H_5$	1	3	3	1	3	1	1	3	3	3	3
Diglycolic Acid	$C_4H_6O_5$	1	1	1	1	1	1	1	2	1	3	1
Dihexyl Phthalate	$C_{20}H_{26}O_4$	1	1	3	1	3	1	1	3	-	3	1
Diisobutylketone	$C_9H_{18}O$	1	1	3	1	3	1	1	3	1	3	1
Di-iso-nonyl Phthalate	$C_{26}H_{42}O_4$	1	1	3	1	3	1	1	-	-	-	1
Diisopropylketone	$C_7H_{14}O$	1	1	3	1	3	1	1	3	1	-	1
Dimethyl Carbonate	$(CH_3O)_2CO$	1	1	-	1	-	1	1	1	3	-	1
Dimethyl Phthalate	$C_{10}H_{10}O_4$	1	1	3	1	3	1	1	3	2	-	1
Dimethyl Formamide (DMF)	$HCON(CH_3)_2$	3	1	3	1	3	1	1	3	1	3	1
Dimethylhydrazine	$H_2NN(CH_3)_2$	-	1	-	1	-	1	1	3	1	3	1
Dinitrotoluene		-	-	-	1	-	1	1	3	3	3	3
Diocetyl Phthalate	$C_{44}H_{84}(COOC_8H_{17})_2$	1	1	3	1	3	1	1	1	2	3	1
Dioxane	$C_4H_8O_2$	3	3	3	1	3	1	1	3	2	3	1
Disodium Hydrogenphosphate	$Na_2HPO_4$	1	1	1	1	1	1	1	1	1	-	1
Disodium Phosphate		1	1	-	-	-	1	1	1	-	-	-
Disulphur Dichloride (Sulphur Chloride)	$S_2Cl_2$	1	-	-	-	-	-	1	1	3	-	-
<b>Engine Oils</b>		1	1	2	1	-	1	1	1	3	1	1
Ethanol	$C_2H_5OH$	1	1	1	2	3	1	1	3	1	1	1
Ethanol Amine	$HOCH_2CH_2NH_2$	1	1	-	1	3	1	1	3	2	-	1
Ethers		-	2	3	1	3	2	1	3	3	3	3
Ethyl Acetate (Acetic Ether)	$CH_3COOC_2H_5$	2	3	3	1	3	1	1	3	2	3	3
Ethyl Acrylate	$C_2H_3COOC_2H_5$	3	1	3	1	3	1	1	3	2	3	1
Ethyl Benzene	$C_6H_5 - C_2H_5$	1	3	3	1	3	1	1	1	3	3	3
Ethyl Benzoate	$C_6H_5COOC_2H_5$	3	1	3	1	-	1	1	1	3	4	1
Ethyl Bromide	$C_2H_5Br$	1	1	-	-	3	1	1	1	3	2	1
Ethyl Chloride	$CH_3 - CH_2Cl$	1	3	3	1	3	-	1	1	2	2	3

# CHEMICAL COMPATIBILITY TABLE

Chemical	Formula	PVDF	PP	PVC	SS 316	PMMA	Hastelloy	PTFE	FPM	EPDM	NBR	PE
Ethyl Chloroacetate	$\text{ClCH}_2\text{COOC}_2\text{H}_5$	1	1	3	1	3	1	1	1	3	3	1
Ethyl Chlorocarbonate	$\text{ClCO}_2\text{C}_2\text{H}_5$	-	-	-	-	-	-	1	1	3	4	-
Ethyl Cyclopentane	$\text{C}_5\text{H}_4\text{C}_2\text{H}_5$	1	1	1	1	1	1	1	1	3	-	1
Ethyl Ether	$\text{CH}_3\text{CH}_2 - \text{O} - \text{CH}_2\text{CH}_3$	1	3	3	1	3	2	1	3	2	-	3
Ethylacetoacetate	$\text{C}_6\text{H}_{10}\text{O}_3$	1	1	3	1	-	1	1	3	2	-	1
Ethylacrylic Acid	$\text{C}_4\text{H}_7\text{COOH}$	1	1	-	1	-	1	1	-	2	-	1
Ethylene Chloride	$\text{ClCH}_2 - \text{CH}_2\text{Cl}$	1	3	3	1	3	-	1	1	2	2	3
Ethylene Diamine	$(\text{CH}_2\text{NH}_2)_2$	2	3	3	2	3	3	1	3	1	3	3
Ethylenglycol Ethylether	$\text{HOCH}_2\text{H}_4\text{OC}_2\text{H}_5$	1	1	-	1	-	1	1	-	2	-	1
Ethylexhanol	$\text{C}_8\text{H}_{16}\text{O}$	1	1	2	1	-	1	1	1	1	1	1
Ethylene Oxide	$\text{H}_2\text{C} - \text{O} - \text{CH}_2$	3	-	-	1	-	1	1	3	2	3	-
<b>Fatty Acid</b>	R-COOH	1	1	1	1	1	1	1	1	3	2	1
Ferric Chloride	$\text{FeCl}_3$	1	1	1	3	1	1	1	1	1	1	1
Ferric Nitrate	$\text{Fe}(\text{NO}_3)_3$	1	1	1	1	1	1	1	1	1	3	1
Ferric Phosphate	$\text{FePO}_4$	1	1	1	1	1	1	1	1	1	-	1
Ferric Sulphate	$\text{Fe}_2(\text{SO}_4)_3$	1	1	1	2	1	1	1	1	1	-	1
Ferrous Chloride	$\text{FeCl}_2$	1	1	1	3	1	2	1	1	1	-	1
Ferrous Sulphate (Iron Vitriol)	$\text{FeSO}_4$	1	1	1	3	1	1	1	1	1	3	1
Fluorobenzene	$\text{C}_6\text{H}_5\text{F}$	1	1	3	1	3	1	1	1	3	3	3
Fluoroboric Acid	$\text{HBF}_4$	1	1	1	3	1	1	1	1	1	1	1
Fluorosilicic Acid	$\text{H}_2\text{SiF}_6$	1	1	1	2	1	1	1	1	1	1	1
Formaldehyde (Formalin)	$\text{CH}_2\text{O}$	1	1	1	2	1	1	1	3	2	2	1
Formamide	$\text{HCONH}_2$	1	1	3	1	1	1	1	2	1	3	1
Formic Acid	$\text{HCOOH}$	1	1	2	2	1	1	1	3	2	3	1
Fruit Juice Pulp		1	1	1	1	1	1	1	1	1	2	1
Fuel Oil		1	2	-	1	1	1	1	1	3	1	2
Furane	$\text{C}_4\text{H}_4\text{O}$	3	1	3	1	3	1	1	3	3	3	1
Furane Aldehyde	$\text{C}_5\text{H}_5\text{O}_2$	3	-	-	1	-	-	1	3	2	3	-
Furfuryl Alcohol	$\text{OC}_4\text{H}_3\text{CH}_2\text{OH}$	3	1	3	1	3	1	1	1	2	3	1
<b>Gallic Acid</b>	$\text{C}_6\text{H}_2(\text{OH})_3\text{COOH}$	1	1	1	1	1	1	1	1	2	2	1
Gasoline, Refined		1	1	1	2	1	1	1	1	3	1	1
Glucose (Dextrose)	$\text{C}_6\text{H}_{12}\text{O}_6$	1	1	1	1	1	1	1	1	1	1	1
Glycerol (Glycerine)	$\text{C}_3\text{H}_5(\text{OH})_3$	1	1	1	1	1	1	1	1	1	1	1
Glicerol Triacetate	$\text{C}_3\text{H}_5(\text{CH}_3\text{COO})_3$	1	1	-	1	-	1	1	3	1	3	1
Glycine, 10%	$\text{NH}_2\text{CH}_2\text{COOH}$	1	1	1	1	1	1	1	1	1	2	1
Glycol (Ethylene Glycol)	$\text{C}_2\text{H}_4(\text{OH})_2$	1	1	1	1	1	1	1	1	1	1	1

# CHEMICAL COMPATIBILITY TABLE

Chemical	Formula	PVDF	PP	PVC	SS 316	PMMA	Hastelloy	PTFE	FPM	EPDM	NBR	PE
Glycolic Acid, 70%	CH <sub>2</sub> OHCOOH	1	1	3	1	1	1	1	1	1	1	1
<b>Heptane</b>	C <sub>7</sub> H <sub>16</sub>	1	1	1	1	1	1	1	1	3	1	1
Hexanal	C <sub>5</sub> H <sub>11</sub> CHO	1	1	-	1	-	1	1	3	2	-	1
Hexane	C <sub>6</sub> H <sub>14</sub>	1	1	1	1	1	1	1	1	3	1	1
Hexanol, Tertiary	C <sub>6</sub> H <sub>13</sub> OH	1	1	3	1	3	1	1	-	1	-	1
Hexantriol	C <sub>6</sub> H <sub>9</sub> (OH) <sub>3</sub>	1	1	-	1	-	1	1	1	1	1	1
Hexene	C <sub>6</sub> H <sub>12</sub>	1	1	1	1	-	1	1	1	3	2	1
Hydrazine Hydrate	N <sub>2</sub> H <sub>4</sub> + H <sub>2</sub> O	1	1	1	1	1	1	1	-	1	2	1
Hydrobromic Acid, 50%	HBr	1	1	1	3	1	1	1	1	1	2	1
Hydrochloric Acid, Concentrate	HCl	1	1	1	3	1	3	1	1	3	3	1
Hydrochloric Acid, Dilute (Muriatic Acid)	HCl	1	1	1	3	1	2	1	1	1	1	1
Hydrocyanic Acid (Hydrogen Cyanide) (Prussic Acid)	HCN	1	1	1	1	1	1	1	1	1	-	1
Hydrofluoric Acid 40%	HF	1	1	2	3	3	2	1	1	3	3	1
Hydrofluosillicic Acid		1	1	1	2	1	1	1	1	1	2	1
Hydrogen Peroxide, 30% (Perydrol)	H <sub>2</sub> O <sub>2</sub>	1	1	1	1	1	1	1	1	2	3	1
Hydroiodic Acid	HI	1	1	1	3	1	-	1	3	-	-	1
Hydrogen Sulphide, Aqueous	H <sub>2</sub> S	1	1	1	2	1	1	1	1	3	2	1
Hydroquinone	C <sub>6</sub> H <sub>4</sub> (OH) <sub>2</sub>	1	1	1	1	-	1	1	2	3	3	1
Hydroxylamine Sulphate	(NH <sub>2</sub> OH) <sub>2</sub> * H <sub>2</sub> SO <sub>4</sub>	1	1	1	1	1	1	1	1	1	1	1
Hypochlorous Acid	HOCl	1	3	1	3	1	1	1	1	2	3	1
<b>Iodine Water Solution</b>	I <sub>2</sub>	1	2	3	3	1	-	1	1	2	1	2
Isobutyl Alcohol (Isobutanol)	C <sub>2</sub> H <sub>5</sub> CH(OH)CH <sub>3</sub>	1	1	1	1	3	1	1	1	1	2	1
Isopropyl Acetate	CH <sub>3</sub> COOCH(CH <sub>3</sub> ) <sub>2</sub>	1	1	3	1	3	1	1	3	2	3	1
Isopropyl Alcohol (Isopropanol)	(CH <sub>3</sub> ) <sub>2</sub> CHOH	1	1	2	1	3	1	1	1	1	2	1
Isopropyl Benzene (Cumene)	C <sub>6</sub> H <sub>5</sub> CH(CH <sub>3</sub> ) <sub>2</sub>	1	3	3	1	3	1	1	1	3	-	3
Isopropyl Chloride	CH <sub>3</sub> CHClCH <sub>3</sub>	1	3	3	1	3	2	1	1	3	3	3
Isopropyl Ether	C <sub>6</sub> H <sub>14</sub> O <sub>3</sub>	1	3	3	1	3	1	1	3	3	3	3
<b>Kerosene</b>		1	2	1	1	1	1	1	1	-	1	2
<b>Lactic Acid</b>	C <sub>3</sub> H <sub>6</sub> O <sub>3</sub>	1	1	1	2	3	2	1	1	2	1	1
Lard Oil		1	1	1	1	1	1	1	1	2	1	1
Lauric Acid		1	-	1	-	-	-	1	1	3	1	-
Lead Acetate (Lead Sugar)	Pb(CH <sub>3</sub> COO) <sub>2</sub>	1	1	1	2	1	1	1	3	1	1	1
Lead Nitrate	Pb(NO <sub>3</sub> ) <sub>2</sub>	1	1	1	1	1	1	1	1	1	1	1
Lead Sulphate	PbSO <sub>4</sub>	1	1	1	1	1	1	1	1	1	-	1
Lead Tetraethyl	Pb(C <sub>2</sub> H <sub>5</sub> ) <sub>4</sub>	1	1	1	1	1	1	1	1	3	-	1



# CHEMICAL COMPATIBILITY TABLE

Chemical	Formula	PVDF	PP	PVC	SS 316	PMMA	Hastelloy	PTFE	FPM	EPDM	NBR	PE
Linoleic Acid		1	-	1	1	-	-	1	1	-	2	-
Linseed Oil		1	1	1	-	-	1	1	1	2	1	3
Lithium Bromide (Brine)	LiBr	1	1	1	1	1	1	1	1	1	1	1
Lithium Chloride	LiCl	1	1	1	3	1	-	1	1	1	1	1
Lithium Salts		1	1	1	-	-	-	1	-	1	-	1
<b>Magnesium Carbonate</b>	MgCO <sub>3</sub>	1	1	1	1	1	1	1	1	1	-	1
Magnesium Chloride	MgCl <sub>2</sub>	1	1	1	3	1	1	1	1	1	1	1
Magnesium Hydroxide	Mg(OH) <sub>2</sub>	1	1	1	1	1	1	1	1	1	2	1
Magnesium Nitrate	Mg(NO <sub>3</sub> ) <sub>2</sub>	1	1	1	1	1	1	1	1	1	-	1
Magnesium Sulphate (Epsom Salts)	MgSO <sub>4</sub>	1	1	1	1	1	1	1	1	1	1	1
Maleic Acid	C <sub>4</sub> H <sub>4</sub> O <sub>4</sub>	1	1	1	1	1	1	1	1	1	1	1
Malic Acid	C <sub>4</sub> H <sub>6</sub> O <sub>5</sub>	1	1	1	1	1	1	1	1	1	1	1
Manganese-II-Chloride	MnCl <sub>2</sub>	1	1	1	3	1	1	1	1	1	3	1
Manganese-II-Sulphate	MnSO <sub>4</sub>	1	1	1	1	1	1	1	1	1	3	1
Mercury	Mg	1	1	1	1	1	1	1	1	1	1	1
Mercury-II-Chloride (Sublimate)	HgCl <sub>2</sub>	1	1	1	3	1	1	1	1	1	1	1
Mercury-II-Cyanide	Hg(CN) <sub>2</sub>	1	1	1	1	1	1	1	1	1	3	1
Mercury-II-Nitrate	Hg(NO <sub>3</sub> ) <sub>2</sub>	1	1	1	1	1	1	1	1	1	3	1
Mesityl Oxide	C <sub>6</sub> H <sub>10</sub> O	-	-	3	1	3	1	1	3	2	3	2
Methacrylic Acid	C <sub>3</sub> H <sub>5</sub> COOH	1	1	-	1	-	1	1	3	2	3	1
Methanol	CH <sub>3</sub> OH	1	1	1	1	3	1	1	2	1	4	1
Methoxybutanol	CH <sub>3</sub> O(CH <sub>2</sub> ) <sub>4</sub> OH	1	1	3	1	3	1	1	1	3	1	1
Methylacetate	CH <sub>3</sub> COOCH <sub>3</sub>	1	1	3	1	3	1	1	3	2	3	1
Methylacrilate	C <sub>2</sub> H <sub>3</sub> COOCH <sub>3</sub>	1	1	3	1	3	1	1	3	2	3	1
Methylbenzoate	C <sub>6</sub> H <sub>5</sub> COOCH <sub>3</sub>	3	1	3	1	3	1	1	1	3	3	1
Methylcatechol	C <sub>6</sub> H <sub>3</sub> (OH) <sub>2</sub> CH <sub>3</sub>	1	1	1	1	1	1	1	1	3	-	1
Methylcellulose		1	1	1	1	1	1	1	3	1	2	1
Methylchloroacetate	ClCH <sub>2</sub> COOCH <sub>3</sub>	1	1	3	1	3	1	1	3	1	3	1
Methylcyclopentane	C <sub>5</sub> H <sub>9</sub> CH <sub>3</sub>	1	1	1	1	1	1	1	1	3	-	1
Methyldichloroacetate	Cl <sub>2</sub> CHCOOCH <sub>3</sub>	-	1	3	1	3	1	1	3	-	-	1
Methyl Ethyl Ketone (MEK)	CH <sub>3</sub> COOC <sub>2</sub> H <sub>5</sub>	3	1	3	1	3	1	1	3	1	3	1
Methylglycol	C <sub>3</sub> H <sub>8</sub> O <sub>2</sub>	1	1	1	1	1	1	1	3	2	-	1

# CHEMICAL COMPATIBILITY TABLE

Chemical	Formula	PVDF	PP	PVC	SS 316	PMMA	Hastelloy	PTFE	FPM	EPDM	NBR	PE
Methyl Isopropyl Ketone	CH <sub>3</sub> COC <sub>3</sub> H <sub>7</sub>	1	1	3	1	3	1	1	3	2	3	1
Methylmetacrylate	C <sub>3</sub> H <sub>5</sub> COOCH <sub>3</sub>	1	1	3	1	3	1	1	3	3	3	1
Methyloleate	C <sub>17</sub> H <sub>33</sub> COOCH <sub>3</sub>	1	1	-	1	-	1	1	1	2	-	1
Methylsalicylate	HOCC <sub>6</sub> H <sub>4</sub> COOCH <sub>3</sub>	1	1	3	1	3	1	1	2	2	3	1
Methylacetyl Acetate	C <sub>5</sub> H <sub>8</sub> O <sub>3</sub>	1	1	3	1	3	1	1	3	2	-	1
Methylamine	CH <sub>3</sub> NH <sub>2</sub>	3	1	3	1	1	1	1	3	1	3	1
Methyl Sulphate		1	3	1	-	3	-	1	-	-	-	1
Milk		1	1	1	1	1	1	1	1	2	1	1
Mineral Oil		1	1	1	1	1	1	1	1	3	1	1
Morpholine	C <sub>4</sub> H <sub>9</sub> ON	1	1	3	1	3	1	1	1	-	3	1
<b>Naptha, Petroleum</b>		1	3	1	2	1	1	1	1	3	3	3
Napthalene	C <sub>10</sub> H <sub>8</sub>	1	3	3	1	-	1	1	1	3	3	3
Nickel-II-Acetate	(CH <sub>3</sub> COO) <sub>2</sub> Ni	1	1	1	1	1	1	1	3	1	3	1
Nickel-II-Chloride	NiCl <sub>2</sub>	1	1	1	3	1	1	1	1	1	1	1
Nickel-II-Nitrate	Ni(NO <sub>3</sub> ) <sub>2</sub>	1	1	1	1	1	2	1	1	1	3	1
Nickel-II-Sulphate	NiSO <sub>4</sub>	1	1	1	1	1	2	1	1	1	1	1
Nitric Acid, Anhydrous	HNO <sub>3</sub>	1	3	1	2	3	3	1	2	3	3	3
Nitric Acid, 65%	HNO <sub>3</sub>	1	2	3	2	3	1	1	1	3	3	2
Nitric Acid, 40%	HNO <sub>3</sub>	1	1	1	1	3	1	1	1	2	3	1
Nitromethane	CH <sub>3</sub> NO <sub>2</sub>	3	1	3	1	3	1	1	3	2	3	1
Nitropropane	(CH <sub>3</sub> ) <sub>2</sub> CHNO <sub>2</sub>	-	1	3	1	3	1	1	3	2	3	1
Nitrotoluene	C <sub>6</sub> H <sub>4</sub> NO <sub>2</sub> CH <sub>3</sub>	1	1	3	1	3	1	1	3	3	3	1
<b>Octane</b>	C <sub>8</sub> H <sub>18</sub>	1	1	1	1	3	1	1	1	3	1	1
Octanol	C <sub>8</sub> H <sub>17</sub> OH	1	1	3	1	3	1	1	1	1	1	1
Octyl Cresol	C <sub>15</sub> H <sub>24</sub> O	1	1	3	1	3	1	1	3	-	-	1
Oils and Fats		1	1	1	1	1	1	1	1	3	-	1
Oleic Acid	C <sub>17</sub> H <sub>33</sub> COOH	1	1	1	1	-	1	1	2	3	3	1
Oleum	H <sub>2</sub> SO <sub>4</sub> + SO <sub>3</sub>	3	3	3	2	3	1	1	1	3	3	3
Olive Oil	HOOC-COOH	1	1	1	2	1	1	1	1	2	1	1
Oxalic Acid	(COOH) <sub>2</sub>	1	1	1	2	1	1	1	1	3	2	1
<b>Palmitric Acid</b>	C <sub>15</sub> H <sub>31</sub> COOH	1	1	1	1	-	1	1	1	1	1	1
Pentane	C <sub>5</sub> H <sub>12</sub>	1	1	1	1	1	1	1	1	3	1	1
Peracetic Acid	C <sub>2</sub> H <sub>4</sub> O <sub>3</sub>	1	3	3	3	3	1	1	1*	2	3	3
Perchloric Acid, 70%	HClO <sub>4</sub>	1	1	1	3	3	1	1	1	2	3	1
Perchloric Acid, 10%	HClO <sub>4</sub>	1	1	1	3	3	1	1	1	2	3	1
Perchloroethylene	C <sub>2</sub> Cl <sub>4</sub>	1	3	1	1	3	1	1	1	3	3	3
Petroleum Ether	C <sub>n</sub> H <sub>2n+2</sub>	1	1	2	1	2	1	1	1	3	1	1
Petroleum Oils (Sour)		1	3	1	2	1	-	1	1	3	-	3
Phenol (Carbolic Acid)	C <sub>6</sub> H <sub>5</sub> OH	1	1	1	2	3	1	1	1	3	3	3
Phenyl Ethyl Ether	C <sub>6</sub> H <sub>5</sub> OC <sub>2</sub> H <sub>5</sub>	-	1	3	1	3	1	1	3	3	3	1

\*with PTFE

# CHEMICAL COMPATIBILITY TABLE

Chemical	Formula	PVDF	PP	PVC	SS 316	PMMA	Hastelloy	PTFE	FPM	EPDM	NBR	PE
Phenyl Hydrazine	$C_6H_5NHNH_2$	1	3	3	1	3	1	1	3	3	2	3
Phosphoric Acid, 50% (Orthophosphoric Acid)	$H_3PO_4$	1	1	1	2	1	1	1	1	1	3	1
Phosphoric Acid, 25% (Orthophosphoric Acid)	$H_3PO_4$	1	1	1	2	1	1	1	1	1	3	1
Phosphorous Oxychloride	$POCl_3$	1	1	3	-	3	1	1	1	1	3	1
Phosphorous Trichloride	$PCl_3$	1	1	3	1	3	1	1	1	1	3	1
Photographic Solution		1	1	1	1	1	2	1	1	1	1	1
Phthalic Acid	$C_6H_4(COOH)_2$	1	1	1	1	1	2	1	2	1	1	1
Picric Acid	$C_6H_2(NO_3)_3OH$	1	2	1	1	1	1	1	1	1	2	2
Plating Solution		1	1	1	1	-	1	1	1	1	2	1
Piperidine	$C_5H_{11}N$	1	-	3	1	3	1	1	3	3	3	-
Potassium Acetate	$CH_3COOK$	1	1	1	1	1	1	1	3	1	2	1
Potassium Aluminium Sulphate (Potash Alum)	$KAl(SO_4)_2$	1	1	1	1	1	1	1	1	1	3	1
Potassium Bicarbonate	$KHCO_3$	1	1	1	1	1	1	1	1	1	3	1
Potassium Bifluoride	$KHF_2$	1	1	1	1	-	1	1	1	1	3	1
Potassium Bisulphate 5%	$KHSO_4$	1	1	1	1	1	1	1	1	1	1	1
Potassium Bitartrate	$KC_4H_5O_6$	1	1	1	1	1	1	1	1	1	3	1
Potassium Borate	$KBO_2$	1	1	1	1	1	1	1	1	1	1	1
Potassium Bromate	$KBrO_3$	1	1	1	1	1	1	1	1	1	1	1
Potassium Bromide	$KBr$	1	1	1	1	1	1	1	1	1	1	1
Potassium Carbonate	$K_2CO_3$	1	1	1	2	1	1	1	1	1	1	1
Potassium Chlorate	$KClO_3$	1	1	1	1	1	1	1	1	1	3	1
Potassium Chloride	$KCl$	1	1	1	3	1	1	1	1	1	1	1
Potassium Chromate	$K_2CrO_4$	1	1	1	1	1	1	1	1	1	2	1
Potassium Chrome Sulphate (Chrome-alum)	$KCr(SO_4)_2$	1	1	2	1	1	1	1	1	1	-	1
Potassium Cyanate	$KOCN$	1	1	1	1	1	1	1	1	1	3	1
Potassium Cyanide 5%	$KCN$	1	1	1	1	1	1	1	1	1	1	1
Potassium Cyanoferrate II	$K_4Fe(CN)_6$	1	1	1	1	1	1	1	1	1	-	1
Potassium Cyanoferrate III	$K_3Fe(CN)_6$	1	1	1	1	1	1	1	1	1	-	1
Potassium Dichromate (Potassium Pyrochromate)	$K_2Cr_2O_7$	1	1	1	2	1	1	1	1	1	2	1
Potassium Ferrocyanide		1	1	1	2	1	1	1	1	1	3	1
Potassium Fluoride	$KF$	1	1	1	1	1	1	1	1	1	3	1
Potassium Hydroxide (CausticPotash)	$KOH$	1	1	1	1	1	2	1	3	1	2	1
Potassium Iodide	$KI$	1	1	1	1	1	1	1	1	1	1	1
Potassium Nitrate (Saltpeter)	$KNO_3$	1	1	1	1	1	2	1	1	1	1	1
Potassium Perchlorate	$KClO_4$	1	1	1	-	1	1	1	1	1	3	1
Potassium Permanganate, 10%	$KMnO_4$	1	1	1	1	1	1	1	1	1	3	1
Potassium Persulphate	$K_2S_2O_8$	1	1	1	1	1	1	1	1	1	3	1
Potassium Phosphate	$KH_2PO_4$	1	1	1	1	1	1	1	1	1	3	1
Potassium Sulphate	$K_2SO_4$	1	1	1	1	1	2	1	1	1	1	1
Potassium Sulphite	$K_2SO_3$	1	1	1	1	1	1	1	1	1	1	1
Propionic Acid	$C_2H_5COOH$	1	1	1	1	3	1	1	3	1	1	1
Propionitrile	$CH_3CH_2CN$	1	1	-	1	-	1	1	3	3	-	1

# CHEMICAL COMPATIBILITY TABLE

Chemical	Formula	PVDF	PP	PVC	SS 316	PMMA	Hastelloy	PTFE	FPM	EPDM	NBR	PE
Propyl Acetate	CH <sub>3</sub> COOC <sub>3</sub> H <sub>7</sub>	1	1	3	1	3	1	1	3	2	-	1
Propylene Dichloride		1	3	3	-	2	2	1	-	-	-	3
Propylene Glycol	CH <sub>3</sub> CHOHCH <sub>2</sub> OH	1	1	1	1	1	1	1	1	1	1	1
Pyridine	C <sub>5</sub> H <sub>5</sub> N	3	3	3	1	3	1	1	3	3	3	1
Pyrrole	C <sub>4</sub> H <sub>4</sub> N	-	1	-	1	-	1	1	3	3	3	1
<b>Salicylic Acid</b>	HOC <sub>6</sub> H <sub>4</sub> COOH	1	1	1	1	1	2	1	1	1	1	1
Sea Water		1	1	1	3	1	1	1	1	1	1	1
Silic Acid	SiO <sub>2</sub> * x H <sub>2</sub> O	1	1	1	1	1	1	1	1	1	1	1
Silver Bromide	AgBr	1	1	1	3	1	1	1	2	1	3	1
Silver Chloride	AgCl	1	1	1	1	1	2	1	2	1	3	1
Silver Nitrate (Lunar Caustic)	AgNO <sub>3</sub>	1	1	1	1	1	1	1	1	1	2	1
Silver Plating Solutions		1	1	1	1	1	1	1	1	-	-	1
Soaps		1	1	1	2	1	1	1	1	1	-	1
Sodium Acetate	NaCH <sub>3</sub> COO	1	1	1	1	1	1	1	1	1	2	1
Sodium Benzoate	C <sub>6</sub> H <sub>5</sub> COONa	1	1	1	1	1	1	1	1	1	1	1
Sodium Bicarbonate (Natron)	NaHCO <sub>3</sub>	1	1	1	1	1	1	1	1	1	1	1
Sodium Bisulphate (Sodium Hydrogen Sulphate)	NaHSO <sub>4</sub>	1	1	1	2	1	1	1	1	1	1	1
Sodium Bisulphite	NaHSO <sub>3</sub>	1	1	1	2	1	1	1	1	1	1	1
Sodium Borate	NaBO <sub>2</sub>	1	1	1	1	1	1	1	1	1	1	1
Sodium Bromate	NaBrO <sub>3</sub>	1	1	1	1	1	1	1	1	1	3	1
Sodium Bromide	NaBr	1	1	1	1	1	1	1	1	1	3	1
Sodium Carbonate (Soda)	Na <sub>2</sub> CO <sub>3</sub>	1	1	1	1	1	1	1	2	1	1	1
Sodium Chlorate	NaClO <sub>3</sub>	1	1	1	2	1	2	1	1	1	3	1
Sodium Chloride (Kitchen Salt)	NaCl	1	1	1	3	1	1	1	1	1	1	1
Sodium Chlorite 10%	NaClO <sub>2</sub>	1	1	1	1	1	1	1	1	1	3	1
Sodium Chromate	Na <sub>2</sub> CrO <sub>4</sub>	1	1	1	1	1	1	1	1	1	3	1
Sodium Cyanide	NaCN	1	1	1	2	1	1	1	1	1	1	1
Sodium Dichromate	Na <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub>	1	1	1	1	1	1	1	1	1	-	1
Sodium Dithionite	Na <sub>2</sub> S <sub>2</sub> O <sub>4</sub>	1	3	3	1	1	2	1	-	-	-	3
Sodium Fluoride	NaF	1	1	1	3	1	1	1	1	1	3	1
Sodium Ferrocyanide	Na <sub>4</sub> Fe(CN) <sub>6</sub>	2	1	1	2	-	1	1	1	1	3	1
Sodium Hexametaphosphate		1	1	1	1	1	-	1	1	-	-	1
Sodium Hydroxide (Caustic Soda)	NaOH	1	1	1	1	1	1	1	2	1	2	1
Sodium Hypochlorite, 12.5%	NaOCl + NaCl	1	2	1	3	1	1	1	1	1	2	1
Sodium Iodide	NaI	1	1	1	1	1	1	1	1	1	3	1
Sodium Metaphosphate	(NaPO <sub>3</sub> ) <sub>n</sub>	1	1	1	1	1	1	1	1	1	1	1
Sodium Nitrate (Cubic Nitre)	NaNO <sub>3</sub>	1	1	1	1	1	1	1	1	1	1	1

# CHEMICAL COMPATIBILITY TABLE

Chemical	Formula	PVDF	PP	PVC	SS 316	PMMA	Hastelloy	PTFE	FPM	EPDM	NBR	PE
Sodium Nitrite	NaNO <sub>2</sub>	1	1	1	1	1	1	1	1	1	2	1
Sodium Oxalate	Na <sub>2</sub> C <sub>2</sub> O <sub>4</sub>	1	1	1	1	1	1	1	1	1	3	1
Sodium Perborate	NaBO <sub>2</sub> * H <sub>2</sub> O <sub>2</sub>	1	1	2	1	1	2	1	1	1	2	1
Sodium Perchlorate 10%	NaClO <sub>4</sub>	1	1	1	2	1	2	1	1	1	3	1
Sodium Peroxide	Na <sub>2</sub> O <sub>2</sub>	1	1	1	1	1	1	1	1	1	2	3
Sodium Persulphate	Na <sub>2</sub> S <sub>2</sub> O <sub>8</sub>	1	1	1	1	-	1	1	1	1	3	1
Sodium Pyrosulphite	Na <sub>2</sub> S <sub>2</sub> O <sub>5</sub>	1	1	1	1	1	1	1	-	-	-	1
Sodium Phosphate	Na <sub>3</sub> PO <sub>4</sub>	1	1	1	2	1	1	1	1	1	1	1
Sodium Salicylate	C <sub>6</sub> H <sub>4</sub> (OH)COONa	1	1	2	1	1	1	1	1	3	3	1
Sodium Silicate (Water Glass)	Na <sub>2</sub> SiO <sub>3</sub>	1	1	1	1	1	1	1	1	1	1	1
Sodium Sulphate (Glauber's Salt) (Mirabilit)	Na <sub>2</sub> SO <sub>4</sub>	1	1	1	1	1	1	1	1	1	1	1
Sodium Sulphide	Na <sub>2</sub> S	1	1	1	1	1	2	1	1	1	1	1
Sodium Sulphite 50%	Na <sub>2</sub> SO <sub>3</sub>	1	1	1	2	1	1	1	1	1	1	1
Sodium Tetraborate	Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub> * 10H <sub>2</sub> O	1	1	1	1	1	1	1	2	1	3	1
Sodium Thiosulphate (Fixing salt), 25%	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	1	1	1	1	1	1	1	1	1	3	1
Sodium Tripolyphosphate	Na <sub>5</sub> P <sub>3</sub> O <sub>10</sub>	1	1	1	1	1	1	1	2	1	3	1
Stannic Chloride		1	1	1	3	-	1	1	1	1	1	1
Stannous Chloride	SnCl <sub>2</sub>	1	1	1	2	-	1	1	1	-	-	1
Starch	(C <sub>6</sub> H <sub>10</sub> O <sub>5</sub> ) <sub>n</sub>	1	1	1	1	1	1	1	1	-	1	1
Starch Gum		1	1	1	1	1	1	1	1	1	-	1
Stearic Acid	C <sub>17</sub> H <sub>33</sub> COOH	1	1	1	1	-	1	1	1	2	2	1
Styrene	C <sub>6</sub> H <sub>5</sub> CHCH <sub>2</sub>	1	3	3	1	3	1	1	1	3	3	3
Succinic Acid	C <sub>4</sub> H <sub>6</sub> O <sub>4</sub>	1	1	1	1	1	1	1	1	1	1	1
Sugar Syrup		1	1	1	1	1	1	1	1	1	1	1
Sulphur	S	1	1	1	1	1	1	1	1	1	3	1
Sulphur Trioxide	SO <sub>3</sub>	3	3	1	3	-	-	1	1	3	3	3
Sulphuric Acid, 10%	H <sub>2</sub> SO <sub>4</sub>	1	1	1	2	1	1	1	1	1	3	1
Sulphuric Acid, 85%	H <sub>2</sub> SO <sub>4</sub>	1	1	1	2	3	1	1	1	3	3	1
Sulphuric Acid, 98.5%	H <sub>2</sub> SO <sub>4</sub>	1	3	3	3	3	1	1	1	3	3	3
Sulphurous Acid	H <sub>2</sub> SO <sub>3</sub>	1	1	1	3	1	1	1	1	1	2	1
Sulphuryl Chloride	SO <sub>2</sub> Cl <sub>2</sub>	3	3	3	-	3	-	1	1	3	3	3
<b>Tannic Acid</b>	C <sub>76</sub> H <sub>52</sub> O <sub>46</sub>	1	1	1	1	1	1	1	1	1	1	1
Tanning Liquors		1	1	1	1	-	1	1	1	-	-	1
Tartaric Acid	C <sub>4</sub> H <sub>6</sub> O <sub>6</sub>	1	1	1	1	2	1	1	1	2	1	1
Tetrachloroethane (Acetylene Tetrachloride)	C <sub>2</sub> H <sub>2</sub> Cl <sub>4</sub>	1	3	3	1	3	1	1	1	3	3	3
Tetrachlorinethylene	C <sub>2</sub> Cl <sub>4</sub>	1	3	3	1	3	1	1	1	3	3	3
Tetrahydrofurane (THF)	C <sub>4</sub> H <sub>8</sub> O	3	3	3	1	3	1	1	3	3	3	3

# CHEMICAL COMPATIBILITY TABLE

Chemical	Formula	PVDF	PP	PVC	SS 316	PMMA	Hastelloy	PTFE	FPM	EPDM	NBR	PE
Tetrahydronaphtalene (Tetralin)	C <sub>10</sub> H <sub>12</sub>	1	3	3	1	3	1	1	1	3	3	3
Tetraethyl Lead		1	-	1	-	-	-	1	1	-	-	-
Thionil Chloride	SOCl <sub>2</sub>	1	3	3	-	3	-	1	2	1	3	3
Thiophene	C <sub>4</sub> H <sub>4</sub> S	-	3	3	1	-	1	1	3	3	3	3
Tin-II-Chloride	SnCl <sub>2</sub>	1	1	3	3	1	2	1	2	1	1	1
Tin-II-Sulphate	SnSO <sub>4</sub>	1	1	1	1	-	2	1	1	1	-	1
Tin-IV-Chloride	SnCl <sub>4</sub>	1	1	1	3	-	1	1	1	1	-	1
Titanium Tetrachloride	TiCl <sub>4</sub>	1	-	-	-	-	-	1	3	3	3	-
Toluene	C <sub>6</sub> H <sub>5</sub> CH <sub>3</sub>	1	3	3	1	3	1	1	3	3	3	3
Toluene Diisocyanate	C <sub>7</sub> H <sub>3</sub> (NCO) <sub>2</sub>	-	1	-	1	-	1	1	3	2	3	1
Tributyl Phosphate	(C <sub>4</sub> H <sub>9</sub> ) <sub>3</sub> PO <sub>4</sub>	1	1	3	1	3	1	1	3	1	3	1
Trichloro Ethane (Trilene)	CCl <sub>3</sub> CH <sub>3</sub>	1	3	3	1	3	1	1	1	3	3	3
Trichloroethylene	C <sub>2</sub> HCl <sub>3</sub>	1	3	3	2	3	1	1	3	3	3	3
Trichloroacetaldehyde Hydrate	CCl <sub>3</sub> CH(OH) <sub>2</sub>	3	3	3	1	3	1	1	3	3	-	1
Trichloroacetic Acid 50%	CCl <sub>3</sub> COOH	1	1	1	3	3	1	1	3	3	-	1
Tricresyl Phosphate	(C <sub>7</sub> H <sub>7</sub> ) <sub>3</sub> PO <sub>4</sub>	-	1	3	1	3	1	1	2	1	3	1
Triethanol Amine	N(C <sub>2</sub> H <sub>4</sub> O) <sub>3</sub>	1	1	3	1	1	1	1	3	2	3	1
Trioctyl Phosphate	(C <sub>8</sub> H <sub>17</sub> ) <sub>3</sub> PO <sub>4</sub>	1	1	3	1	3	1	1	2	1	3	1
Trisodium Phosphate	Na <sub>3</sub> PO <sub>4</sub>	1	1	1	1	1	1	1	2	1	1	1
Turpentine		1	3	3	1	3	1	1	1	3	1	3
<b>Urea</b>	CO(NH <sub>2</sub> ) <sub>2</sub>	1	1	2	1	1	1	1	1	1	1	1
<b>Vinegar</b>		1	1	1	1	1	1	1	1	2	2	1
Vinyl Acetate	CH <sub>2</sub> =CHOOCCH <sub>3</sub>	1	1	3	1	3	1	1	3	1	2	1
Vegetable Oils		1	1	1	1	1	1	1	1	3	1	1
<b>Water, Acid, Mine</b>		1	1	1	1	1	1	1	1	1	-	1
Water, Fresh		1	1	1	1	1	1	1	1	1	1	1
Water, Distilled	H <sub>2</sub> O	1	1	1	1	1	1	1	1	1	-	1
Water, Salt		1	1	1	2	1	1	1	1	1	1	1
Whiskey		1	1	1	1	1	-	1	1	1	1	1
Wines		1	1	1	1	1	-	1	1	1	1	1
<b>Xylene</b>	C <sub>6</sub> H <sub>4</sub> (CH <sub>3</sub> ) <sub>2</sub>	1	3	3	1	3	1	1	1	3	3	3
<b>Zinc Acetate</b>	(CH <sub>3</sub> COO) <sub>2</sub> Zn	1	1	1	1	1	1	1	3	1	2	1
Zinc Chloride	ZnCl <sub>2</sub>	1	1	1	3	1	1	1	1	1	1	1
Zinc Sulphate	ZnSO <sub>4</sub>	1	1	1	2	1	1	1	1	1	1	1