Chemical Resistance Suitability Table

This suitability table was prepared based on past performances, the experiments we conducted and by comprehensively examining documents supplied by the manufacturers of materials.
Use the table as reference material for selecting hoses, since the results vary particularly for chemicals, depending on the conditions, such as concentration, temperature, pressure and movement.

- Principal chemical names are listed in this suitability table. Contact us for the availability of the chemicals not listed in the table.
- Descriptions of this suitability table are intended for wetted materials.
- Do not use hose number B (0951F, 0970F and 0998) for volatile chemicals for which electrostatic steps must be taken seriously, even if they satisfy material requirements.
- Items in the list marked with an asterisk (*) are recommended for use with hoses inserted with a fluorine film, bearing the code “H” at the end of the hose number (example: 0951F-H).
- General working temperature range: -20°C to +80°C
  Note 1: Be aware that the tolerance varies, depending on individual chemicals, as well as the working conditions.
  Note 2: Contact us in advance if the working temperature is +80°C or higher, since heat resistant specifications apply also for the fitting mounting methods for working temperatures +80°C and higher.
- Contact us in advance if there are any questions regarding this suitability table.

No.		Chemical name	Hose number					Terminal fittings		
			A	B	C	D	E	Iron	SUS	Resin
A	1	Acetaldehyde	●	×	×	×	●	×	●	
	2	Acetaldehyde water solution, 40%	●	×	×	●	●	×	●	
	3	Acetate water solution	●	●	×	●	●	×	●	
	4	Acetic acid (anhydride)	●	×	×	×	●	×	●	
	5	Acetic acid, 40%	●	●	×	●	●	×	●	
	6	Acetone	*●	×	*●	×	●	●	●	
	7	Acetone cyanohydrin	●	×	×	×	●	●	●	
	8	Acetonitrile	●	×	●	×	●	●	●	
	9	Acetophenone	●	×	●	×	●	●	●	
	10	Acrylamide solution, 50% or less	●	●	×	●	●	●	●	
	11	Acrylic acid	●	×	×	×	●	×	●	
	12	Acrylic emulsion	●	●	×	●	●	×	●	
	13	Acrylonitrile	●	×	●	×	●	●	●	
	14	Adipic acid	●	●	×	●	●	×	●	
	15	Aircraft turbine fuel	●	×	●	×	●	●	●	
	16	Alkyl benzene sulphonic acid	●	●	×	●	●	×	●	
	17	Allyl alcohol	●	×	●	×	●	●	●	
	18	Allyl chloride	●	×	●	×	●	●	●	
	19	Aluminum chloride water solution	●	●	×	●	●	×	●	
	20	Aluminum fluoride water solution	●	●	×	●	●	×	●	
	21	Aluminum sulfate	*●	*●	×	●	●	●	●	
	22	Alunite water solution	●	●	×	●	●	×	●	
	23	2-(2-Aminoethoxy) ethanol	●	×	×	×	●	●	●	
	24	Aminoethyl ethanol amine	●	●	●	●	●	●	●	
	25	N-Aminoethyl piperazine	●	●	●	●	●	●	●	
	26	Ammonia anhydride solution	●	●	●	●	●	●	●	
	27	Ammonia aqueous	●	●	●	●	●	●	●	
	28	Ammonia salt solution	●	●	×	●	●	×	●	
	29	Ammonium sulphide solution (45% or less)	●	●	×	●	●	×	●	
	30	n-Amyl acetate	●	×	●	×	●	●	●	
	31	Amyl acetate, commercial	●	×	●	×	●	●	●	
	32	Aniline	●	×	●	×	●	●	●	
	33	Anisole	●	●	×	●	●	×	●	
	34	Antimony chloride water solution	●	●	×	●	●	×	●	
	35	Antimony trichloride anhydride solution	×	●	×	●	●	×	●	
	36	Arsenic water solution	●	●	×	●	●	×	●	
	37	Aviation fuel (JP4 and up)	●	×	●	×	●	●	●	
B	38	Barium saline solution	●	●	×	●	●	×	●	
B	39	Benzaldehyde solution	●	×	×	×	●	×	●	
	40	Benzene	●	×	●	×	●	●	●	
	41	Benzene sulphonyl chloride	●	×	×	×	●	×	●	
	42	Benzoic acid	●	●	×	●	●	×	●	
	43	Benzoyl chloride	●	●	×	●	●	●	●	
	44	Benzyl acetate	●	●	●	●	●	●	●	
	45	Benzyl alcohol	●	×	●	×	●	●	●	
	46	Benzyl chloride	●	×	×	×	●	×	●	
	47	Bismuth chloride solution	●	●	×	●	●	×	●	
	48	Borax	●	●	×	●	●	×	●	
	49	Boric acid	●	●	×	●	●	×	●	
	50	Bromic acid	×	●	×	●	×	×	×	●
	51	Butadiene	●	×	●	×	●	●	●	
	52	Butadiene-50% alcohol solution	●	×	●	×	●	●	●	
	53	Butane	●	×	●	×	●	●	●	
	54	Butanediol	●	×	●	×	●	●	●	
	55	Butyl acetate	●	×	●	×	●	●	●	
	56	N-Butyl acetate	●	×	●	×	●	●	●	
	57	N-Butyl acrylate	●	×	●	×	●	●	●	
	58	Butyl alcohol	●	×	●	×	●	●	●	
	59	Butyl benzyl phthalate	●	●	●	●	●	●	●	
	60	N-Butyl ether	●	×	●	●	●	●	●	
	61	Butyl methacrylate	●	×	●	×	●	●	●	
	62	Butyl phthalate	●	●	●	●	●	●	●	
	63	Butyl phthalate	●	●	●	●	●	●	●	
	64	Butyl/decyl/cet osyl methacrylate mixture	●	×	●	×	●	●	●	
	65	N-Butylaldehyde	●	×	●	×	●	●	●	
	66	Butylamine (all isomers)	●	×	×	×	●	●	●	
	67	Butylene glycol	●	×	●	×	●	●	●	
	68	Butylene liquid	●	×	●	×	●	●	●	
	69	Butyric acid	●	●	●	●	●	●	●	
C	70	Calcium chloride	●	●	×	●	●	●	●	
	71	Calcium hydroxide	●	●	×	●	●	×	●	
	72	Calcium hypochlorite solution	Available for use with the hose number 0970F series only.					×	×	●
	73	Calcium naphthenate in mineral oil	●	●	●	●	●	●	●	
	74	Calcium nitrate	●	●	×	●	●	×	●	
	75	Camphor oil	●	●	●	●	●	●	●	

● Headings “A” to “E” in the “Hose number” column and “Resin” in the “Terminal fittings” column represent the following hose numbers and resin categories.

A	0913F/0913F-S/0969F/0969LF
B	0951F/0998
C	0913F-W/0901F/0982
D	0970F/0970F-S
E	0976F/0976F-S
Resin	P.P/PVC/FRP Note: As a general rule, fiber reinforced plastic (FRP) is used for hydrochloric acid and Diluted sulfuric acid.

●: Available ×: Unavailable

* Even when a chemical is marked as unavailable for use, the chemical may still be available for use, depending on the conditions. Contact us for details.

No.		Chemical name	Hose number					Terminal fittings		
			A	B	C	D	E	Iron	SUS	Resin
C	76	Camphor oil alcohol solution	●	●	●	●	●	●	●	
	77	Camphor oil $C_{16}M_{16}O$ water solution	●	●	×	●	●	×	●	
	78	Carbon disulphide	●	×	×	×	●	×	●	
	79	Carbon tetrachloride	●	●	●	●	●	●	●	
	80	Carbondioxide (liquefied)	●	●	●	●	●	●	●	
	81	Carbonic acid	●	●	×	●	●	×	●	
	82	Carbonyl chloride	×	●	×	●	×	×	×	●
	83	Cashew nut shell oil (untreated)	●	●	●	●	●	●	●	
	84	Castor oil	●	●	●	●	●	●	●	
	85	Cetyl alcohol	●	●	●	●	●	●	●	
	86	Chloral hydrate	×	×	×	●	×	×	●	
	87	Chloral hydrate solution	×	●	×	●	×	×	×	●
	88	Chloric acid	Available for use with the hose numbers 0951F, 0998 and 0970F series only.					×	×	●
	89	Chloroacetic acid	●	●	×	●	●	×	●	
	90	Chlorobenzene	●	×	●	×	●	●	●	
	91	Chloroethanol	●	×	●	×	●	●	●	
	92	Chloroform	●	●	●	●	●	●	●	
	93	Chlorohydrins (crude)	●	×	●	×	●	●	●	
	94	Chloromethane	●	×	●	×	●	●	●	
	95	o-Chloronitrobenzenes	●	×	●	×	●	●	●	
	96	2- or 3-Chloropropionic acid	●	●	×	●	●	×	●	
	97	Chlorosulphonic acid	×	×	×	×	×	×	×	
	98	(o-, m-, p-) Chlorotoluene	●	×	●	×	●	●	●	
	99	Chlorous acid solution	×	●	×	●	×	×	×	●
	100	Chrom alum water solution	●	●	×	●	●	×	●	
	101	Chromic acid, 80%	×	×	×	●	●	×	●	
	102	Citric acid	●	●	×	●	●	×	●	
	103	Coal tar	●	●	●	●	●	●	●	
	104	Coal tar naphtha	●	×	●	×	●	●	●	
	105	Creosote (coal tar or wood)	●	●	●	●	●	●	●	
	106	Cresols mixed isomers	●	×	●	×	●	●	●	
	107	Crotonaldehyde	●	×	●	×	●	●	●	
	108	Cumene	●	×	●	×	●	●	●	
	109	Cyclohexane	●	×	●	×	●	●	●	
	110	Cyclohexanol	●	×	●	×	●	●	●	
	111	Cyclohexanone	●	×	●	×	●	●	●	
	112	Cyclohexylamine	●	●	×	●	●	●	●	
	113	p-Cymene	●	●	●	●	●	●	●	

No.		Chemical name	Hose number					Terminal fittings		
			A	B	C	D	E	Iron	SUS	Resin
D	114	Decalin	●	×	●	×	●	●	●	
	115	Decyl alcohol	●	×	●	●	●	●	●	
	116	Detergent liquid	●	●	×	●	●	×	●	
	117	Developer (photographic)	●	●	×	●	●	×	●	
	118	Dextrin water solution	●	●	●	●	●	●	●	
	119	Di (2-Ethylhexyl) Phosphoric acid	●	●	×	●	●	×	●	
	120	Dibutyl ether	●	×	●	×	●	●	●	
	121	Dibutyl phthalate	●	●	●	●	●	●	●	
	122	Dibutylamine	●	×	●	×	●	●	●	
	123	o-Dichlorobenzene	●	×	●	×	●	●	●	
	124	1-1-Dichloroethane	●	×	●	×	●	●	●	
	125	Dichloroethane (methylene chloride)	●	●	●	●	●	●	●	
	126	Dichloroethyl ether	●	●	●	●	●	●	●	
	127	Dichloroethylene	●	×	●	×	●	●	●	
	128	2-2-Dichloroisopropyl ether	●	●	●	●	●	●	●	
	129	2-4-Dichlorophenol	●	●	×	●	●	×	●	
	130	1.3-Dichloropropane	●	×	●	×	●	●	●	
	131	1,3-Dichloropropene	●	●	●	●	●	●	●	
	132	Diesel oil	●	●	●	●	●	●	●	
	133	Diethanolamine	●	●	×	●	●	●	●	
	134	Diethyl benzene	●	×	●	×	●	●	●	
	135	Diethyl ethanolamine	●	●	×	●	●	●	●	
	136	Diethyl ether	●	×	●	×	●	●	●	
	137	Diethyl phthalate	●	●	●	●	●	●	●	
	138	Diethyl sulphate	●	●	●	●	●	●	●	
	139	Diethylamine	●	×	×	×	●	●	●	
	140	Diethylamino ethanol	●	●	×	●	●	●	●	
	141	Diethylene glycol methyl ether	●	×	●	×	●	●	●	
	142	Diethylenetriamine	●	×	●	×	●	●	●	
	143	Diisobutyl phthalate	●	●	●	●	●	●	●	
	144	Diisobutylamine	●	●	●	●	●	●	●	
	145	Diisobutylene	●	●	●	●	●	●	●	
	146	Diisopropanolamine	●	●	×	●	●	●	●	
	147	Diisopropyl benzene (all isomers)	●	●	●	●	●	●	●	
	148	Diisopropylamine	●	●	×	●	●	●	●	
	149	Diluted mixture of nitric acid and hydrochloric acid Note: Details to be worked out separately	●	×	●	●	×	×	●	
	150	Diluted sulfonic acid solution	●	●	×	●	●	×	●	

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●: Available ×: Unavailable

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No.		Chemical name	Hose number					Terminal fittings		
			A	B	C	D	E	Iron	SUS	Resin
D	151	N.N-Dimethylcyclohexylamine	●	×	×	×	●	●	●	
	152	Dimethyl ethanolamine	●	×	×	×	●	●	●	
	153	Dimethyl formamide	●	×	●	×	●	●	●	
	154	Dimethyl phthalate	●	●	●	●	●	●	●	
	155	Dimethylamine aqueous, 40% or less	●	●	×	●	●	●	●	
	156	Dinitrotoluene (molten)	*●	×	×	×	●	●	●	
	157	Di-n-propylamine	●	×	×	×	●	●	●	
	158	1.4-Dioxane	●	×	●	×	●	●	●	
	159	Dipenten	●	●	●	●	●	●	●	
	160	Diphenyl ether	●	×	●	×	●	●	●	
	161	Diphenyl oxide	●	×	●	×	●	●	●	
	162	Diphenylmethane diisocyanate	●	●	×	●	●	×	●	
	163	Dodecene (all isomers)	●	●	●	●	●	●	●	
	164	Dodecyl alcohol	●	●	●	●	●	●	●	
	165	Dodecyl benzene	●	●	●	●	●	●	●	
	166	Dodecyl diphenyl oxide disulphonate solution	●	●	●	●	●	●	●	
	167	Dodecyl methacrylate	●	×	●	×	●	●	●	
	168	Dodecyl phenol	●	×	●	×	●	●	●	
E	169	Emulsifier	●	●	●	●	●	●	●	
	170	Epichlorohydrin	●	×	●	×	●	●	●	
	171	Ethanolamine	●	×	×	×	●	●	●	
	172	Ether maleic anhydride solution	●	●	×	●	●	×	●	
	173	2-Ethoxyethyl acetate	●	×	●	×	●	●	●	
	174	Ethyl acetate	●	×	●	×	●	●	●	
	175	Ethyl acrylate	●	●	●	●	●	●	●	
	176	Ethyl alcohol	●	×	●	×	●	●	●	
	177	Ethyl benzene	●	×	●	×	●	●	●	
	178	Ethyl chloride	×	×	×	●	●	●	●	
	179	Ethyl dichloride	●	×	●	×	●	●	●	
	180	Ethyl ether	●	×	●	×	●	●	●	
	181	2-Ethyl hexylamine	●	×	×	×	●	●	●	
	182	Ethyl methacrylate	●	×	●	×	●	●	●	
	183	Ethyl toluene	●	×	●	×	●	●	●	
	184	Ethylamine	●	×	×	×	●	●	●	
	185	Ethylamine solution (72% or less)	●	●	×	●	●	●		
	186	n-Ethylbutylamine	●	×	×	×	●	●	●	
	187	N-Ethylcyclohexylamine	●	×	×	×	●	×	●	

No.		Chemical name	Hose number					Terminal fittings		
			A	B	C	D	E	Iron	SUS	Resin
E	188	Ethylene chlorohydrin	●	×	●	×	●	●	●	
	189	Ethylene cyanohydrin	●	×	●	×	●	●	●	
	190	Ethylene diamine	●	×	×	×	●	●	●	
	191	Ethylene dibromoide	●	●	●	●	●	●	●	
	192	Ethylene dichloride	●	×	●	×	●	●	●	
	193	Ethylene glycol	●	×	●	×	●	●	●	
	194	Ethylene oxide	●	×	×	×	●	×	●	
	195	Ethylene Oxide/propylene oxide mixtures containing < 30% ethylene oxide	*●	×	×	●	×	×	●	
	196	Ethylene oxilate (25%)	×	×	×	×	●	×	●	
	197	2-Ethylhexyl acrylate	●	●	●	●	●	●	●	
	198	Ethylidene norbonene	●	●	●	●	●	●	●	
F	199	Fatty acid	●	●	●	●	●	●	●	
	200	Fatty alcohols (C_{12}-C_{20})	●	●	●	●	●	●	●	
	201	Ferric and ferrous chloride solution	×	●	×	●	×	×	×	●
	202	Formaldehyde solution 45% or less	●	●	●	●	●	●	●	
	203	Formic acid	●	×	×	×	●	×	●	
	204	Freon 12	●	●	●	●	●	●	●	
	205	Fructose solution	●	●	×	●	●	×	●	
	206	Fruit juice	●	●	×	●	●	×	●	
	207	Fuel oil	●	×	●	×	●	●	●	
	208	Fumaric adduct of rosin, water dispersion	●	●	●	●	●	●	●	
	209	Fuming sulfuric acid	×	×	×	●	●	●	●	
	210	Furfural	●	×	●	×	●	●	●	
	211	Furylmethyl alcohol	●	●	●	●	●	●	●	
	212	Furfuryl alcohol	●	×	●	×	●	●	●	
G	213	Gasoline	●	×	●	×	●	●	●	
	214	Gelatin	●	●	●	●	●	●	●	
	215	Glucose	●	●	●	●	●	●	●	
	216	Glutaraldehyde solution, 50% or less	●	●	●	●	●	●	●	
	217	Glycerine	●	●	●	●	●	●	●	
	218	Glycol	●	●	●	●	●	●	●	
H	219	halogen methyl sulfuric acid	●	●	×	●	●	×	●	
	220	Heavy oil	●	●	●	●	●	●	●	
	221	Heptanol (all isomers)	●	×	●	×	●	●	●	
	222	Hexamethylenediamine solutions	●	×	●	×	●	●	●	
	223	1-Hexene	●	×	●	×	●	●	●	
	224	Hydrazine hydrate	●	×	×	×	●	×	●	

● Headings “A” to “E” in the “Hose number” column and “Resin” in the “Terminal fittings” column represent the following hose numbers and resin categories.

A	0913F/0913F-S/0969F/0969LF
B	0951F/0998
C	0913F-W/0901F/0982
D	0970F/0970F-S
E	0976F/0976F-S
Resin	P.P/PVC/FRP Note: As a general rule, fiber reinforced plastic (FRP) is used for hydrochloric acid and Diluted sulfuric acid.

No.		Chemical name	Hose number					Terminal fittings		
			A	B	C	D	E	Iron	SUS	Resin
H	225	Hydrobromic silver oxide, 50%	×	●	×	●	×	×	×	●
	226	Hydrochloric acid	Available for use with the hose numbers 0951F, 0998 and 0970F series only.					×	×	●
	227	Hydrochloric acid, 35%						×	×	●
	228	Hydrogen chloride	●	●	×	●	●	×	●	
	229	Hydrogen peroxide solution 60%-70%	*●	×	×	×	●	×	●	
	230	Hydrogen peroxide solution 8%-60%	*●	×	×	×	●	×	●	
	231	Hydrogen sulfide	●	×	×	×	●	×	●	
	232	Hydrogen sulfide solution	●	●	×	●	●	×	●	
	233	Hydroquinone solution	●	●	×	●	●	●	●	
	234	Hydroxylamine sulfate 12%	●	●	×	●	●	×	●	
	235	2-Hydroxyethyl acrylate	●	●	×	●	●	×	●	
I	236	Ink	●	×	●	×	●	●	●	
	237	Isoamyl acetate	●	×	●	×	●	●	●	
	238	Isobutyl acetate	●	×	●	×	●	●	●	
	239	Isobutyl acrylate	●	×	●	×	●	●	●	
	240	Isobutylaldehyde	●	●	●	●	●	●	●	
	241	Isooctane	●	×	●	×	●	●	●	
	242	Isophorone	●	×	●	×	●	●	●	
	243	Isophorone diamine	●	●	×	●	●	●	●	
	244	Isoprene	●	×	●	×	●	●	●	
	245	Isopropanolamine	●	●	×	●	●	●	●	
	246	Isopropyl alcohol	●	×	●	×	●	●	●	
	247	Isopropyl benzene	●	×	●	×	●	●	●	
	248	Isopropyl ether	●	×	●	×	●	●	●	
	249	Isopropylamine	●	×	×	×	●	●	●	
K	250	Ketone	*●	×	*●	×	●	●	●	
L	251	Lactic acid	●	●	×	●	●	×	●	
	252	Linseed oil	●	●	●	●	●	●	●	
	253	Liquefied petroleum gas	●	×	●	×	●	●	●	
	254	Lubrication oil	●	●	●	●	●	●	●	
M	255	Magnesium chloride solution	●	●	×	●	●	×	●	
	256	Maleic acid water solution	●	●	×	●	●	×	●	
	257	Maleic anhydride	×	×	×	●	●	×	●	
	258	Mercaptobenzothiazol, sodium salt solution	●	●	●	●	●	●	●	
	259	Mercury chloride solution	×	●	×	●	×	×	×	●
	260	Mesityl oxide	●	●	●	●	●	●	●	
	261	Methacrylic acid	●	●	×	●	●	●	●	
	262	Methacrylonitrile	●	●	●	●	●	●	●	

No.		Chemical name	Hose number					Terminal fittings		
			A	B	C	D	E	Iron	SUS	Resin
M	263	Methanol	●	×	●	×	●	●	●	
	264	Methyl acetate	●	×	●	×	●	●	●	
	265	Methyl acrylate	●	×	●	×	●	●	●	
	266	Methyl acrylate	●	×	×	×	●	●	●	
	267	Methyl amyl acetate	●	×	●	×	●	●	●	
	268	Methyl amyl alcohol	●	×	●	×	●	●	●	
	269	Methyl amyl ketone	●	×	●	×	●	●	●	
	270	2-Methyl ethyl aniline	●	●	●	●	●	●	●	
	271	Methyl ethyl ketone (MEK)	*●	×	*●	×	●	●	●	
	272	Methyl formate	●	×	●	×	●	●	●	
	273	Methyl halogen sulfuric acid	×	×	×	●	×	×	●	
	274	4-Methyl pyridine	●	●	●	●	●	●	●	
	275	Methyl salicylate	●	×	●	×	●	●	●	
	276	2-Methyl-1-pentene	●	×	●	×	●	●	●	
	277	2-Methyl-2-hydroxy-3-butyne	●	●	●	●	●	●	●	
	278	N-Methyl-2-pyrrolidone	●	●	●	●	●	●	●	
	279	2-Methyl-5-ethylpyridine	●	●	●	●	●	●	●	
	280	Methylamine solutions 40% or less	●	●	×	●	●	●	●	
	281	Methylmethacrylate	●	×	●	×	●	●	●	
	282	α-Methylstyrene	●	×	●	×	●	●	●	
	283	Monochlor benzene	×	×	×	×	●	×	●	
	284	Morpholine	●	●	×	●	●	●	●	●
	285	Motor oil	●	●	●	●	●	●	●	
N	286	Naphthalene molten	●	●	●	●	●	●	●	
	287	Neodecanoic acid	●	●	×	●	●	●	●	
	288	Nickel saline solution	●	●	×	●	●	×	●	
	289	Nitrating acid (mixture of sulphuric and nitric acids)	*●	*●	×	●	●	×	●	
	290	Nitric acid (20 to 90% or more)	×	×	×	●	●	×	●	
	291	Nitric acid (20% or less)	*●	×	×	●	●	×	●	
	292	Nitric acid (90% or more) Note: Details to be worked out separately	×	×	×	●	●	×	●	
	293	Nitrobenzene	●	×	●	×	●	●	●	
	294	o-Nitrophenol (molten)	●	×	×	×	●	●	●	
	295	1- or 2-Nitropropane	●	×	●	×	●	●	●	
	296	Nitropropane/nitroethane (60/40 mixture)	●	×	●	×	●	●	●	
	297	Nitrotoluene	●	×	●	×	●	●	●	
	298	Nonene	●	●	●	●	●	●	●	
	299	Nonyl alcohol	●	×	●	×	●	●	●	

Chemical Resistance Suitability Table

This suitability table was prepared based on past performances, the experiments we conducted and by comprehensively examining documents supplied by the manufacturers of materials.
Use the table as reference material for selecting hoses, since the results vary particularly for chemicals, depending on the conditions, such as concentration, temperature, pressure and movement.

●: Available ×: Unavailable

* Even when a chemical is marked as unavailable for use, the chemical may still be available for use, depending on the conditions. Contact us for details.

No.		Chemical name	Hose number					Terminal fittings		
			A	B	C	D	E	Iron	SUS	Resin
N	300	Nonyl phenol	●	●	●	●	●	●	●	
O	301	Octanol (all isomers)	●	●	●	●	●	●	●	
	302	Octene (all isomers)	●	●	●	●	●	●	●	
	303	Octyl cresol	●	×	×	×	●	×	●	
	304	Oil and grease	●	●	●	●	●	●	●	
	305	Oil for transformer	●	●	●	●	●	●	●	
	306	Olefins, straight chain mixtures	●	●	●	●	●	●	●	
	307	Oleic acid	●	●	●	●	●	●	●	
	308	Oxalic acid 50% water solution	●	●	×	●	●	×	●	
	309	Ozone	×	×	×	●	●	×	●	
P	310	Paraffin	●	●	●	●	●	●	●	
	311	Paraldehyde	●	×	●	×	●	●	●	
	312	Pentachloroethane	●	●	●	●	●	●	●	
	313	1, 3-Pentadiene	●	×	●	×	●	●	●	
	314	n-Pentane	●	×	●	×	●	●	●	
	315	Pentene (all isomers)	●	×	●	×	●	●	●	
	316	Perchloric acid	×	●	×	●	×	×	×	●
	317	Perchloroethylene	●	●	●	●	●	●	●	
	318	Petroleum	●	×	●	×	●	●	●	
	319	Petroleum ether	×	×	×	×	●	●	●	
	320	Phenol	●	×	●	×	●	●	●	
	321	1-Phenyl-1-xylyl ethane	●	×	●	×	●	●	●	
	322	Phenylhydrazine	●	×	×	×	●	×	●	
	323	Phosgene	×	×	×	●	●	×	●	
	324	Phosphoric acid	●	●	×	●	●	×	●	●
	325	Phosphorus oxychloride	×	●	×	●	×	×	×	●
	326	Phosphorus yellow or white	×	×	×	×	×	×	×	
	327	Phthalic acid	●	×	●	×	●	●	●	
	328	Phthalic anhydride	●	×	×	×	●	×	●	
	329	Picric acid	●	●	●	●	●	×	●	
	330	Polyethylene polyamines	●	●	×	●	●	×	●	
	331	Potassium hydroxide solution	●	●	×	●	●	×	●	
	332	Potassium salt solution	×	●	×	●	×	×	×	●
	333	n-Propanolamine	●	×	●	×	●	●	●	
	334	Propionic acid	●	●	×	●	●	×	●	
	335	Propionic anhydride	●	●	×	●	●	×	●	
	336	Propionitrile	●	×	●	×	●	●	●	
	337	Propyl alcohol	●	×	●	×	●	●	●	
P	338	Propyl alcohol	●	×	●	×	●	●	●	
	339	n-Propylamine	●	×	●	×	●	●	●	
	340	Propylene dimer	●	×	●	×	●	●	●	
	341	Propylene oxide	●	×	×	×	●	×	●	
	342	Pyridine	●	×	●	×	●	●	●	
R	343	Rosin	●	●	●	●	●	●	●	
S	344	Saturated saline	×	●	×	●	×	×	×	●
	345	Sea water	×	●	×	●	×	×	×	●
	346	sec-Amyl acetate	●	×	●	×	●	●	●	
	347	Silicon oil	●	●	●	●	●	●	●	
	348	Sodium dichromate (70% or more)	●	●	×	●	●	×	●	
	349	Sodium chlorate solution 50% or less	●	●	×	●	●	×	●	
	350	Sodium hydrosulphide solution 45% or less	●	●	●	●	●	●	●	
	351	Sodium hydrosulphide/ ammonium sulphide solution	●	●	×	●	●	×	●	
	352	Sodium hydroxide, 50%	●	●	×	●	●	●	●	
	353	Sodium hypochlorite	Available for use with the hose number 0970F series only.					×	×	●
	354	Sodium hypochlorite solution 15% or less						×	×	●
	355	Solid paraffin	●	●	●	●	●	●	●	
	356	Stearic acid	●	●	●	●	●	●	●	
	357	Styrene monomer	●	×	●	×	●	●	●	
	358	Sulfonic acid	●	●	×	●	●	×	●	
	359	Sulfur chloride	×	●	×	●	×	×	×	●
	360	Sulfur dioxide	●	●	×	●	●	×	●	
	361	Sulfuric acid 70% or less	×	●	×	●	×	×	×	●
	362	Sulfuric acid 98%	*●	*●	×	●	●	●	●	●
T	363	Tall oil (crude and distilled)	●	●	●	●	●	●	●	
	364	Tall oil fatty acid (resin acids less than 20%)	●	●	●	●	●	●	●	
	365	Tannic acid	●	●	×	●	●	×	●	
	366	Tartaric acid	●	●	×	●	●	×	●	
	367	Tetrachloroethane	●	●	●	●	●	●	●	
	368	Tetraethyl lead	●	×	×	×	●	×	●	
	369	Tetraethylene pentamine	●	×	●	×	●	●	●	
	370	Tetrahydrofuran	●	×	●	×	●	●	●	
	371	Tetrahydronaphthalene	●	×	●	×	●	●	●	
	372	Tetralin	●	×	●	×	●	●	●	
	373	Thinner	●	×	●	×	●	●	●	
	374	Thionyl chloride	●	●	×	●	●	×	×	●

Note: Contact us in advance if you intend to use nitric acids, since a special type of shielding material is required.

● Headings “A” to “E” in the “Hose number” column and “Resin” in the “Terminal fittings” column represent the following hose numbers and resin categories.

A	0913F/0913F-S/0969F/0969LF
B	0951F/0998
C	0913F-W/0901F/0982
D	0970F/0970F-S
E	0976F/0976F-S
Resin	P.P/PVC/FRP Note: As a general rule, fiber reinforced plastic (FRP) is used for hydrochloric acid and Diluted sulfuric acid.

No.		Chemical name	Hose number					Terminal fittings		
			A	B	C	D	E	Iron	SUS	Resin
T	375	Thiophene	●	●	×	●	●	×	●	
	376	Toluene	*●	×	*●	×	●	●	●	
	377	Toluene diisocyanate	●	×	●	×	●	●	●	
	378	o-Toluidine	●	×	●	×	●	●	●	
	379	Tributyl phosphate	●	●	●	●	●	●	●	
	380	Trichloroacetic acid, 10%	●	●	×	●	●	×	●	
	381	1.2.4-Trichlorobenzene	●	×	●	×	●	●	●	
	382	1.1.1-Trichloroethane	●	●	●	●	●	●	●	
	383	1.1.2-Trichloroethane	●	●	●	●	●	●	●	
	384	Trichloroethylene	●	●	●	●	●	●	●	
	385	1.2.3-Trichloropropane	●	●	●	●	●	●	●	
	386	Tricresyl phosphate (containing less than 1% ortho isomer)	●	●	●	●	●	●	●	
	387	Triethanolamine	●	×	●	×	●	●	●	
	388	Triethyl benzene	●	×	●	×	●	●	●	
	389	Triethyl phosphate	●	●	×	●	●	×	●	
	390	Triethylamine	●	×	●	×	●	●	●	
	391	Triethylene tetramine	●	×	●	×	●	●	●	
	392	1.2.4-Trimethyl benzene	●	×	●	×	●	●	●	
	393	Trimethyl phosphate	●	●	●	●	●	●	●	
	394	Trimethylacetic acid	●	●	×	●	●	●	●	
	395	Trimethylhexamethylene diamine	●	●	×	●	●	●	●	
	396	Trimethylhexamethylene diisocyanate	●	●	●	●	●	●	●	
	397	Trioctyl phosphite	●	●	●	●	●	●	●	
	398	Trixylyl phosphate	●	●	●	●	●	●	●	
	399	Turpentine	●	●	●	●	●	●	●	
	400	Turpentine oil	●	●	●	●	●	●	●	
U	401	Undecane	●	×	●	×	●	●	●	
	402	Undecylic alcohol	●	●	●	●	●	●	●	
	403	Urea, ammonium solution containing aqua ammonia	●	●	●	●	●	●	●	
V	404	n-Valeraldehyde	●	●	●	●	●	●	●	
	405	Vaseline	●	●	●	●	●	●	●	
	406	Vinegar	●	●	×	●	●	×	●	
	407	Vinyl acetate	●	×	●	×	●	●	●	
	408	Vinyl chloride monomer	●	●	×	●	●	●	●	
V	409	Vinyl ethyl ether	●	×	●	×	●	●	●	
	410	Vinyl neodecanoate	●	●	●	●	●	●	●	
	411	Vinyl toluene	●	×	×	×	●	●	●	
	412	Vinylidene chloride	×	×	×	×	●	×	●	
W	413	Water	●	●	×	●	●	●	●	●
	414	White paraffin	●	●	●	●	●	●	●	
	415	White spirit, low (15-20%) aromatic	●	×	●	×	●	●	●	
X	416	Xylenes	●	×	●	×	●	●	●	
	417	Xylenols	●	×	●	×	●	●	●	
Y	418	Yeast water solution	●	●	×	●	●	×	●	