

Fluid/Corrosion Compatibility Reference Table



CODE

- Suitable Under Normal Circumstances **1**
- Acceptable **2**
- Not Recommended **3**
- No Information; Test Before Using **0**

The following chart indicates the general compatibility of **PARAGON PERFORMANCE** hose and fittings with a variety of media being conveyed. These *recommendations* are intended as a **guide only** and can be effected by many factors in the operating parameters of the actual application, such as media and ambient temperature, pressure, media concentration, exposure time, and exposure to other media. Additional factors will effect hose and fitting selection for a specific application, such as gaseous effusion, potential for static discharge, system impulse spikes, proper assembly length for a dynamic flexing or static flexed system application, etc. **NOTE:** These tables are based on fitting compatibility ratings at 70° F; higher temperatures may have an adverse effect. (Consult **PARAGON PERFORMANCE** for details on specific applications)

MEDIA	FITTING MATL.					MEDIA	FITTING MATL.					MEDIA	FITTING MATL.				
	BRASS	C.S.	303/304 S.S.	316 S.S.	TEFLON®		BRASS	C.S.	303/304 S.S.	316 S.S.	TEFLON®		BRASS	C.S.	303/304 S.S.	316 S.S.	TEFLON®
Acetaldehyde	1	1	1	1	1	Barium Chloride	2	3	1	1	1	Caliche Liquors	0	1	1	1	1
Acetic Acid, Glacial	0	0	2	2	1	Barium Hydroxide	0	2	1	1	1	Cane Sugar Liquors	2	1	1	1	1
Acetic Acid 30%	3	3	2	2	1	Barium Sulfate	2	1	1	1	1	Carbonic Acid	3	3	1	1	1
Acetic Anhydride	3	3	2	2	1	Barium Sulfide	3	3	1	1	1	Carbon Dioxide	1	1	1	1	1
Acetone	1	1	1	1	1	Beer	1	2	1	1	1	Carbon Disulfide	2	2	1	1	0
Acetyl Chloride (COLD)	2	3	2	2	1	Beet Sugar Liquors	0	1	1	1	1	Carbonic Acid	3	3	1	1	1
Acetylene	2	0	1	1	1	Benzene, Benzol	1	2	1	1	1	Carbon Monoxide	1	1	1	1	1
Acrylonitrile	0	1	1	1	1	Benzene	1	1	1	1	1	Carbon Tetrachloride	2	3	2	2	1
Air	1	1	1	1	1	Benzene Sulfonic Acid	0	3	0	2	0	Castor Oil	1	1	1	1	1
Alcohols	1	1	1	1	1	Benzaldehyde	0	1	0	0	1	Caustic Soda	3	2	1	1	1
Alum. Ammonion or Potassium	3	3	2	2	1	Benzine	1	1	1	1	1	Cellosolve Acetate	0	1	1	1	1
Alum. Acetate	3	0	1	1	1	Benzoic Acid 70°	1	1	1	1	1	Cellosolve Butyl	0	1	1	1	1
Aluminum Bromide	3	3	2	2	1	Benzol	1	1	1	1	1	Cellube	1	1	1	1	1
Aluminum Chloride	3	3	2	2	1	Benzyl Alcohol	0	1	1	1	1	Celluguard	1	1	1	1	1
Aluminum Fluoride	3	3	2	2	1	Benzyl Benzoate	0	1	1	1	1	Chevron Fr-10,13,20.8	1	1	1	1	1
Aluminum Hydroxide	1	0	1	1	1	Benzyl Chloride	0	1	0	0	1	Chlorinate Parraffin & Petroleum Oil	1	1	1	1	1
Aluminum Nitrate	0	3	1	1	1	Bismuth Carbonate	0	1	1	1	1	Chlorine, Gaseous, Dry	2	2	3	3	1
Aluminum Salts	0	0	2	2	1	Black Sulfate Liquor	0	1	1	1	1	Chlorine, Gaseous, Wet	3	3	3	3	1
Aluminum Sulfate	3	3	3	2	1	Black Furnace Gas	1	1	1	1	1	Chlorine Trifluoride	0	3	0	0	0
Ammonia Anhydrous	0	1	1	1	1	Borax	2	2	1	1	1	Chlorine Water	1	2	0	0	1
Ammonia Aqueous	3	0	1	1	1	Bordeaux Mixture	0	0	1	1	1	Chloracetic Acid	2	3	3	3	1
Ammonium Carbonate	0	1	1	1	0	Boric Acid	3	3	2	1	1	Chlorobenzene	1	1	1	1	1
Ammonium Chloride	3	0	2	2	1	Brine	3	0	0	0	1	Chlorobromomethane-Chloroform	1	1	1	1	1
Ammonium Hydroxide	3	2	1	1	1	Bromine, Dry	3	3	3	3	3	O-Chloronaphthalene	1	1	1	1	1
Ammonium Metaphosphate	0	1	1	1	1	Bunker, Oil	1	1	1	1	1	Chlorosulfonic Acid	0	1	0	0	1
Ammonium Nitrate	3	1	1	1	1	Butadiene	1	0	1	1	1	Chlorotoluene	1	1	1	1	1
Ammonium Nitrate	0	0	1	1	0	Butane	1	1	1	1	1	Chromic Acid	3	3	3	2	1
Ammonium Persulfate	0	0	1	1	0	Buttermilk	3	3	1	1	1	Citric Acid	3	3	3	1	1
Ammonium Phosphate	0	3	2	1	1	Butter Oil	1	1	1	1	1	Citgo, Pacemaker FR, Glyco, FR15,20,25	1	1	1	1	1
Ammonium Sulfate	3	1	1	1	1	Butyric Acid	2	3	1	1	1	Cod Liver Oil	1	1	1	1	1
Ammonium Thiocyanate	0	1	1	1	1	Butyl Acetate	1	2	1	1	1	Coke Oven Gas	0	1	1	1	1
Amyl Acetate	1	3	1	1	1	Butyl Alcohol	1	1	1	1	1	Copper Chloride	3	3	3	1	1
Amyl Alcohol	1	1	1	1	1	Butyl Amine	1	1	1	1	1	Copper Cyanide	3	0	1	1	1
Amyl Chloride	0	0	1	1	1	Butyl Carbital	1	1	1	1	1	Copper Nitrate	0	1	1	1	1
Amyl Chloronaphthalene	0	0	1	1	1	Butyl Stearate	1	1	1	1	1	Copper Sulfate	3	3	1	1	1
Amyl Naphthalene	0	0	1	1	1	Butyl Mercaptan	0	0	1	1	1	Corn Oil	1	1	1	1	1
Aniline	3	2	1	1	1	Butyraldehyde	1	0	0	0	1	Corn Syrup	0	1	1	1	1
Aniline Dyes	0	3	1	1	1	Calcium Acetate	1	1	1	1	1	Cottonseed Oil	1	1	1	1	1
Aniline Hydrochloride	3	0	3	3	1	Calcium Bisulfate	3	0	2	1	1	Creosote	3	2	1	1	1
Animal Fats	0	1	1	1	1	Calcium Bisulfate	0	0	1	1	1	Cresol	0	2	1	1	1
Asphalts	0	0	1	1	1	Calcium Carbonate	1	1	1	1	1	Cresylic Acid	0	1	1	1	1
Aqua Regia	0	0	3	3	1	Calcium Chlorate	0	0	2	1	1	Crude Oil	0	3	3	2	1
Arsenic Acid	0	2	0	1	1	Calcium Chlorate	2	3	2	1	1	Crude Wax	1	1	1	1	1
Askarel	1	1	1	1	0	Calcium Hydroxide	2	3	3	1	1	Cutting Oil	1	1	1	1	1
Atmosphere Industrial	0	3	1	1	1	Calcium Hypochlorite	3	0	3	2	1	Cyclohexane	1	1	1	1	1
Atmosphere Marine	2	3	3	3	3	Calcium Nitrate	1	1	1	1	1	Cyclohexanone	0	0	1	1	1
Atmosphere Rural	1	3	3	1	1	Calcium Silicate	1	1	1	1	1	Cymene	1	0	0	0	1
Automotive Brake Fluid	1	1	1	1	1	Calcium Sulfate	1	1	1	1	1						
Barium Carbonate	1	2	1	1	1	Calcium Sulfide	1	1	1	1	1						

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	BRASS	C.S.	303/304 S.S.	316 S.S.	TEFLON®		BRASS	C.S.	303/304 S.S.	316 S.S.	TEFLON®		BRASS	C.S.	303/304 S.S.	316 S.S.	TEFLON®
Dasco FR-150,200,310	1	1	1	1	1	Ferrous Chloride	2	3	1	2	1	Hydrochloric Acid					
Dasco FR-300	1	1	1	1	1	Ferrous Nitrate	0	0	1	1	1	Concentrated	3	3	3	3	1
Dasco IFR	1	1	1	1	1	Ferrous Sulfate	2	3	1	1	1	Hydrofluosilicic Acid	3	0	3	3	1
Decalin	1	0	0	0	1	Fluoroboric Acid	0	0	1	1	1	Hydrogen, Gaseous	1	1	1	1	1
Denatured Alcohol	1	1	1	1	1	Formaldehyde	1	0	1	1	1	Hydrogen Peroxide, 70%	3	3	2	1	1
Diacetone	1	1	1	1	1	Formic Acid	2	3	2	1	1	Hydrogen Sulfide, Gaseous	3	3	2	1	1
Diacetone Alcohol	1	1	1	1	1	Freon 12	0	3	1	1	2	Hydrolube	1	1	1	1	1
Dibenzyl Ether	1	1	1	1	1	Freon 114	0	3	1	1	2	H-515 (NATO)	1	1	1	1	1
Diburyl Ether	1	1	1	1	1	Fruit Juices	0	3	1	1	1	Hydroquinone	0	0	1	1	0
Dibutyl Phthalate	1	1	1	1	1	Fuel Oil	1	2	2	2	1	Imol	1	1	1	1	1
Dibutyl Sebacate	1	0	0	0	1	Fumaric Acid	0	0	1	1	0	Isobutyl Alcohol	2	1	1	1	1
Dichlorobenzene	1	0	1	1	1	Furon Furfuran	1	1	1	1	1	Iso Octane	1	1	1	1	1
Dichloroethane (dry)	3	3	3	3	3	Furfural	1	2	1	1	1	Iso Octane	1	1	1	1	1
Diesel Oil	1	1	1	1	1	Fyrequel 90,150,220, 300,550,1000	1	1	1	1	1	Isopropyl Acetate	1	1	1	1	1
Diethylamine	1	0	1	1	1	Fyrguard 150,150-M,200	1	1	1	1	1	Isopropyl Alcohol	2	1	1	1	1
Diethyl Ether	1	1	1	1	1	Fyre-Safe 225,211	1	1	1	1	1	Isopropyl Ether	1	1	1	1	1
Diethylene Glycol	1	1	1	1	1	Fyre-Safe W/O	1	1	1	1	1	JP3 and JP4	1	1	1	1	1
Diethyl Phthalate	1	0	1	1	1	Fyre-Safe 1090E, 1150, 1220,1300E,1550E	1	1	1	1	1	Kerosene	1	1	1	1	1
Diethyl Sebacate	1	0	1	1	1	Gallic Acid	0	3	1	1	1	Ketones	0	0	1	1	1
Di-Isobutylene	1	0	1	1	0	Gasoline	1	2	1	1	1	Lacquers	1	3	3	1	1
Di-Isoprpyl Ketone	1	0	1	1	1	Glauber's Salt	0	1	1	1	0	Lacquers Solvents	1	3	3	1	1
Dimethyl Aniline	1	0	0	0	1	Gelatin	0	3	1	1	1	Lactic Acids	2	3	2	1	1
Dimethyl Formamide	0	1	1	1	0	Glucose	1	1	1	1	1	Lard	3	1	1	1	1
Dimethyl Phthalate	1	0	0	0	1	Glue	3	2	1	1	1	Lead Acetate	1	2	1	1	1
Diocetyl Phthalate	1	1	1	1	1	Glycerin	1	2	1	1	1	Lead Nitrate	0	1	1	1	0
Dioxane	1	1	1	1	1	Glycerin, Glycerol	0	1	1	1	1	Lime	0	2	1	1	1
Dipentene	1	1	1	1	1	Glycols	1	1	1	1	1	Lime Bleach	0	3	2	1	0
Dow Corning DC200, 510,550,560,FC1265	1	1	1	1	1	Grease	1	1	1	1	1	Lime Sulphur	0	3	2	2	2
Dowtherm A,E	1	1	1	1	1	Green Sulfate Liquors	0	1	1	1	1	Linoleic Acid	0	0	0	0	1
Duro AW-16,31	1	1	1	1	1	Gulf-FR Fluid	1	1	1	1	1	Linseed Oil	2	2	1	1	1
Duro FR-HD	1	1	1	1	1	Gulf-FR Fluid P37,P40,P43,P45-P47	1	1	1	1	1	Lindol HF	1	1	1	1	1
Ethanol	1	3	1	1	1	Gulf, FR Fluid G150,G100,G250,G200	1	1	1	1	1	Lubricating Oils, Petroleum	1	1	1	1	1
Ethanolamine	1	1	1	1	1	Heptane	1	1	1	1	1	Magnesium Chloride	2	3	2	1	1
Ethers	1	1	1	1	1	n-Hexaldehyde	1	1	1	1	1	Magnesium Hydroxide	0	1	1	1	1
Ethyl Acetate	1	1	1	1	1	Hexane	1	1	1	1	1	Magnesium Sulfate	1	2	1	1	1
Ethyl Acetoacetate	1	1	1	1	1	Hexane	1	1	1	1	1	Malic Acid	0	2	2	1	1
Ethyl Acrylate	0	1	1	1	0	Hexyl Alcohol	2	1	1	1	1	Mercuric Chloride	3	3	1	1	1
Ethyl Alcohol	2	1	1	1	1	HF-20	1	1	1	1	1	Mercury	3	1	1	1	1
Ethyl Benzene	1	1	1	1	1	Houghto-Safe 271 to 640	1	1	1	1	1	Methanol	1	0	1	1	1
Ethyl Cellulose	1	1	1	1	1	Houghto-Safe 5046, 5045W	1	1	1	1	1	Mesityl Oxide	1	1	1	1	1
Ethyl Chloride	2	2	1	1	1	Houghto-Safe 1010, 1055,1115,1120,1130	1	1	1	1	1	Methyl Acetate	1	1	1	1	1
Ethyl Dichloride	1	0	0	0	1	Hul-E-Mul	1	1	1	1	1	Methyl Acrylate	1	1	1	1	0
Ethyl Ether	1	2	1	1	1	Hydrafluid 760	1	1	1	1	1	Methyl Alcohol	2	1	1	1	1
Ethyl Mercaptan	0	2	0	0	1	Hydrobromic Acid	0	1	1	1	1	Methyl Bromide	1	1	1	1	1
Ethyl Pentochlorobenzene	1	2	1	1	1	Hypo	0	0	1	1	1	Methyl Butyl Ketone	1	1	1	1	0
Ethyl Silicate	1	1	1	1	1	Hydraulic Oil, Petroleum	1	1	1	1	1	Methyl Chloride	1	1	1	1	1
Ethylene Chloride	2	2	1	1	1	Hydrochloric Acid, 15%	3	3	3	3	1	Methylene Chloride	1	1	1	1	1
Ethylene Chlorohydrin	0	0	0	0	1	Hydrochloric Acid 37%	3	3	3	3	1	Methyl Ethyl Ketone	1	1	1	1	1
Ethylene Diamine	1	0	0	0	1	Hydrochloric Acid	3	3	1	1	1	Methyl Formate	1	1	1	1	1
Ethylene Glycol	1	2	1	1	1							Methyl Isobutyl Ketone	1	1	1	1	1
Fatty Acids	0	0	1	1	1							Methyl Methacrylate	0	1	1	1	1
Ferric Chloride	3	3	3	3	1							Methyl Salicylate	1	1	1	1	1
Ferric Nitrate	0	3	1	1	1							MIL-L-2104 & 2104B	1	1	1	1	1
Ferric Sulfate	3	3	1	1	1												

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	BRASS	C.S.	303/304 S.S.	316 S.S.	TEFLON®		BRASS	C.S.	303/304 S.S.	316 S.S.	TEFLON®		BRASS	C.S.	303/304 S.S.	316 S.S.	TEFLON®
MIL-F-7083	3	1	1	1	1	Pine Oil	0	1	1	1	1	Soybean Oil	0	1	1	1	1
MIL-H-5606	1	1	1	1	1	Plating Solution, Chrome	0	0	3	3	0	Stannic Chloride	3	3	0	0	1
MIL-L-7808	1	1	1	1	1	Potassium Acetate	0	0	1	1	1	Steam	2	1	1	1	1
MIL-O-6083	1	1	1	1	1	Potassium Chloride	3	2	2	1	1	Stearic Acid	3	3	2	1	1
Milk	1	3	1	1	1	Potassium Cyanide	3	2	1	1	1	Stoddard Solvent	1	2	1	1	1
Mineral Oil	1	1	1	1	1	Potassium Dichromate	0	0	1	1	1	Styrene	2	2	0	2	1
Monochlorobenzene	1	1	1	1	1	Potassium Hydroxide, 30%	3	3	1	1	1	Sucrose Solution	0	1	1	1	1
Monethanolamine	1	1	1	1	0	Potassium Nitrate	2	3	1	1	1	Sulfur 200°F	3	2	2	1	1
Morpholine (pure additive)	0	0	1	1	1	Potassium Sulfate	2	2	1	1	1	Sulfur Chloride	3	3	3	2	1
Mine Guard FR	1	1	1	1	1	Progalllic Acid	0	2	1	1	0	Sulfur Dioxide	1	2	1	1	1
Mobile HFA	1	1	1	1	1	Propane	1	1	1	1	1	Sulfur Trioxide	0	2	2	2	1
Mine Water	0	1	1	1	0	Propyl Acetate	1	1	1	1	0	Sulfuric Acid 10%	3	3	3	2	1
Naphtha	1	2	1	1	1	Pydraul 60, F9, 150, 625, & "E" Series	1	1	1	1	1	Sulfuric Acid 98%	3	2	3	2	1
Naphthalene	0	0	1	1	1	Pyridine 50%	1	0	1	1	1	Sulfuric Acid, Fuming	3	2	0	1	1
Naphthenic Acid	0	0	2	1	1	Pydraul A-200	1	1	1	1	1	Sulfurous Acid 10%	3	3	2	1	1
Natural Gas	2	1	1	1	1	Pydraul 90, 135, 230, 312, 540, & "C" Series	1	1	1	1	1	Sulfurous Acid 75%	3	3	3	2	1
Nickel Acetate	1	1	1	1	1	Pyro Gard CDR	1	1	1	1	1	Sun Minesafe, Sun Safe	1	1	1	1	1
Nickel Chloride	3	3	2	2	1	Pyro Gard 43	1	1	1	1	1	Tannic Acid 10%	3	2	1	1	1
Nickel Sulfate	3	0	2	1	1	Pyro Guard 53, 55, 51, 42	1	1	1	1	1	Tar, Bituminous	2	1	1	1	1
Niter Coke	0	3	2	1	0	Red Oil	2	2	2	1	1	Tartaric Acid	0	0	2	2	1
Nitric Acid, all concentration	3	3	2	2	1	Rosin	1	3	1	1	1	Tellus (Shell)	1	1	1	1	1
Nitric Acid, Red Fuming	3	3	2	2	1	Safco-Sa fe T10, T20	3	3	1	1	1	Terpineol	0	0	0	0	1
Nitrobenzene	1	1	1	1	1	Salicylic Acid	0	0	1	1	0	Texaco 760	1	1	1	1	1
Nitroethane	1	0	1	1	1	Salt Water	3	2	1	1	1	Hydrafluid	1	1	1	1	1
Nitrogen, Gaseous	1	1	1	1	1	Santosafe W/G 15 to 30	1	1	1	1	1	Texaco 766, 763 (200-300)	0	0	1	1	1
Nitrogen Tetroxide	0	0	0	2	0	Santosafe-3-0	1	1	1	1	1	Tin	3	3	3	3	1
NutoH	1	1	1	1	1	Sewage	1	3	1	1	1	Titanium					
Nyvac 20, 30, 200FR	1	1	1	1	1	Shell IRUS 902, 905	1	1	1	1	1	Tetrachloride	3	1	2	2	0
Nyvac Light	1	1	1	1	1	Shell FRM	1	1	1	1	1	Toluene	1	1	1	1	1
n-Octane	1	1	1	1	0	Silicone Greases	1	1	1	1	0	Toluene Diisocyanate	0	0	0	0	0
Octyl Alcohol	2	1	1	1	1	Silicone Oils	1	1	1	1	0	Transformer Oil	1	1	1	1	1
Oil SAE	1	1	1	1	1	Silver Nitrate	2	2	1	1	1	Transmission Fluid, Type A	1	1	1	1	1
Oleic Acid	2	2	2	1	1	Skydol 500 & 7000	0	1	1	1	1	Tributoxyethyl Phosphate	0	1	0	0	1
Oleum Spirits	0	3	0	0	1	Soap Solutions	1	1	1	1	1	Tributyl Phosphate	0	1	0	0	1
Olive Oil	2	2	2	1	1	Soda Ash	2	1	1	1	0	Trichloroethylene	1	3	0	1	1
Oxalic Acid	3	3	2	1	1	Sodium Acetate	1	1	1	1	1	Tricresyl Phosphate	0	1	0	2	1
Oxygen, Gaseous	1	1	1	1	1	Sodium Bicarbonate	2	2	1	1	1	Tung Oil	1	1	1	1	1
O-148 (NATO)	1	1	1	1	1	Sodium Bisulfite	0	1	1	1	1	Turpentine	2	0	1	1	1
Ozone	1	1	1	1	1	Sodium Borate	0	1	1	1	1	UCON Hydrolubes	1	1	1	1	1
Paint	1	0	1	1	1	Sodium Chloride	3	2	2	1	1	Urea Solution 50%	0	1	1	1	1
Palmitic Acid	3	1	2	1	1	Sodium Cyanide	3	2	1	1	1	Varnish	2	2	1	1	0
Peanut Oil	1	1	1	1	1	Sodium Hydroxide 40%	3	2	1	1	1	Vegetable Oils	0	1	1	1	1
Perchloric Acid	0	0	2	1	1	Sodium Hypochlorite	3	3	3	2	1	Versilube	1	1	1	1	1
Perchloroethylene	1	1	1	1	1	Sodium Metaphosphate	3	3	1	1	1	Vinagar	3	3	2	1	1
Petroleum	1	1	1	1	1	Sodium Nitrate	2	1	2	2	1	Vinyl Chloride	3	2	1	1	1
Petroleum Ether	1	1	1	1	1	Sodium Perborate	3	3	1	1	1	Vital 4300, 5310	1	1	1	1	1
Petroleum Oils	1	1	1	1	1	Sodium Peroxide	3	3	1	1	1	Water	1	2	1	1	1
Phenol	3	3	1	1	1	Sodium Phosphate	3	0	1	1	1	Whiskey, Wines	3	3	2	1	1
Phorone	1	1	1	1	1	Sodium Silicate	1	1	1	1	1	Xylene (Xyol)	0	2	2	2	1
Phosphate Esters	1	1	1	1	1	Sodium Sulfate	1	1	1	1	1	Zinc Acetate	1	1	1	1	1
Picric Acid	3	3	1	1	1	Sodium Thiosulfate	3	3	1	1	1	Zinc Chloride	3	3	2	1	1
Pinene	1	1	1	1	1							Zinc Sulfate	3	3	2	1	1