



VARDHMAN FLEXIBLE HOSES

Corrosion Resistance Table

To select the appropriate hose and fitting materials, you may consult the table provided for guidance. While the information is accurate, it is subject to factors beyond our control, and as such, no general guarantee of performance can be offered.

Rating code: A -Suitable, B- Limited service, C - not Suitable, D- no information

ChemicalS	Carbon steel	SS304		
		/321	SS316L	TEFLON
Aceteldehyde	B	A	A	A
Acetanilide	B	B	B	B
Acetic acid > 30%	C	C	B	B
Acetic acid Glacial	D	B	B	B
Acetic acid Anhydride	C	B	A	A
Acetone	C	B	B	B
Acetonephenone	A	B	B	B
Acetylene Chloride	C	B	B	B
Acetylene	A	A	A	A
Acrylates	B	B	B	B
Acrylic acid	C	B	B	B
Acrylonitrile	A	A	A	A
Alcohol	A	A	A	A
Alum	C	B	B	B
Alum Acetate	D	A	A	A
Alumina	A	A	A	A
Aluminium Acetate	C	A	A	A
Aluminium Bromide	C	B	B	A
Aluminium chloride dry	B	B	B	A
Aluminium chloride moist	C	C	C	C
Aluminium fluoride	B	C	C	A
Aluminium Hydroxide	B	B	A	A
Aluminium Nitrate	C	A	A	A
Aluminium Salt	D	B	B	A
Aluminium suphate	C	D	D	A
Ammonia dry	A	A	A	A
Ammonia moist	C	A	A	A
Ammonium acetate	A	A	A	A
Ammonium bicarbonate (Hot)	D	A	A	A
Ammonium Bromide	C	C	C	D
Ammonium Carbonate	A	B	B	D
Ammonium Chloride Dry	D	C	C	A
Ammonium chloride Moist	C	C	C	
Ammonium hydroxide	B	B	B	A

ChemicalS	Carbon steel	SS304		
		/321	SS316L	TEFLON
AAmmonium meta phasphate	A	A	A	A
Ammonium Nitrate	C	A	A	A
Ammonium Nitrite	D	A	A	D
Ammonium perchloride (10%)	D	A	B	D
Ammonium persupphate	D	A	A	D
Ammonium phosphate	C	B	A	A
Ammonium sulphate	C	C	B	A
Ammonium thiocyanate	A	A	A	A
Amyl Acetate	A	B	B	A
Amyl Alcohol	A	A	A	A
Amyl chloride dry	B	B	B	A
Amyl chloride moist	C	C	C	A
Amyl chloro napthalene	D	A	A	A
Amyl Napthalene	D	A	A	A
Aniline	C	B	B	A
Aniline dyes	C	B	B	A
Aniline hydrochloride	D	C	C	A
animat fats	A	A	A	A
Aqua ragia	D	C	C	A
Arsenic acid	B	D	B	A
Askarel	A	A	A	D
Asphalt	A	A	A	A
Atmosphere - Industrial	C	B	A	A
Atmosphere - marine	C	B	B	C
Atmosphere - rural	C	A	A	A
Barium Carbonate	B	B	B	A
Barium chloride dry	C	B	B	A
Barium Chloride moist	C	B	B	A
Barium Hydroxide	B	B	A	A
Barium nitrate moist	D	A	A	A
Barium Sulphate	B	B	B	A
Barium sulphide	C	B	B	A
Beer	C	A	A	A
Beet sugar syrup	B	A	A	A

Chemicals	Carbon steel	SS304		
		/321	SS316L	TEFLON
Benzaldehyde	C	A	A	A
Benzene	A	A	A	A
Benzene Sulphonic acid	C	D	B	A
Benzine	A	B	B	A
Benzoic acid	D	B	B	A
Benzalamine	B	B	B	A
Benzyl Alcohol	A	B	B	A
benzile Benzonate	A	A	A	A
Benzyl chloride - dry	B	A	A	A
Benzyl chloride - moist	D	C	C	A
Bismuth chloride	A	A	A	A
Blast furnace gas	A	A	A	C
Black liquor sulphate process	C	B	B	A
Bleaching powder dry	C	A	A	A
Bleaching powder moist	C	C	C	A
Borax	B	B	A	A
Bordeaux mixture	B	A	A	A
Boric acid	D	C	C	A
Boron tri chloride dry	D	C	C	A
Boron tri chloride moist	C	C	C	A
Boron tri flouride dry	A	B	B	D
Brines	C	C	C	A
Bromic acid	C	C	C	D
Bromic dry	C	B	B	A
Bromic moist	C	C	C	A
Bunker oil	A	A	A	A
Butter	A	A	A	A
Butadien	A	A	A	A
Butane	A	A	A	A
Butanol (Butyl Alcohol)	A	A	A	A
Butyle Acetate	B	A	A	A
Butyle amine	A	A	A	D
Butyle Carbitol	A	A	A	A
Butyle phenols	B	B	B	D
Butyle mercaptan	D	A	A	A
Butyle stearate	A	A	A	A
Butaldehyde	D	D	D	A
Butylamin	A	A	A	A
Butyric acid	C	B	B	A
Cadmium Chloride moist	C	C	C	A
Cadmium Chloride dry	A	A	A	A
Cadmium suphate	B	A	A	A
Calcium acetate	A	A	A	A
Calcium bisuphite	B	B	B	A

Chemicals	Carbon steel	SS304		
		/321	SS316L	TEFLON
Calcium chlorate	D	C	B	D
Calcium chloride moist	C	C	C	A
Calcium chloride dry	A	B	B	A
Calcium chloro hypochlorite	C	C	C	A
calcium fluoride	C	C	C	A
Calcium hypochlorite	D	C	B	A
Calcium hydroxide	C	B	B	A
Calcium Hypochloride moist	C	C	C	A
Calcium Hypochloride dry	B	B	B	A
Calcium nitrate	C	A	A	A
Calcium oxide	A	A	A	A
Calcium silicate	A	A	A	A
Calcium sulphate	A	A	A	A
Calcium sulphide	A	A	A	A
Camphene	D	B	B	A
Cane sugar syrup	B	A	A	A
Carbolic acid	C	B	A	A
Carbon dioxide dry	A	A	A	A
Carbon dioxide moist	C	A	A	A
Carbonate devarages	C	A	A	A
Carbonate water	C	A	A	A
Carbon disulphide	B	B	B	D
Carbon tetrachloride dry	B	A	A	A
Carbon tetrachloride moist	C	C	C	A
Carbon monooxide	A	A	A	A
Carbonic acid	D	A	A	A
Caster oil	A	A	A	A
Caustic soda	B	C	C	A
Cellosolve Acetate	A	A	A	A
Cellosolve butyl	A	A	A	A
Cellulose	A	A	A	A
Chlorine dry	B	B	B	A
Chlorine moist	C	C	C	A
Chlorine trifluoride	C	D	D	D
Chloroacetic acid	C	C	C	A
chloric acid	C	C	C	A
Chlorinated water (saturated)	B	D	D	A
Chlorine dioxide dry	B	B	B	A
Chlorine dioxide moist	C	C	C	A
Chlorobenzene	A	B	B	A
Cholobromo metahne	C	A	A	A
Chloro Nephthalene	B	A	A	A
Chloro Sulphuric acid dilute	C	C	C	A
Chloro Toluene	A	A	A	A

Cascium bromide	C	C	C	D
Calcium carbonate	A	A	A	A

Chloroform dry	C	A	A	A
Chlorofrom moist	C	C	C	A

Chemicals	Carbon steel	SS304		
		/321	SS316L	TEFLON
Chromic acid	C	C	B	A
Chromic fluoride	C	C	C	D
Chromic Hydroxide	B	B	B	D
Chromium sulphate	C	B	B	D
Cider	C	A	A	A
Citric acid	C	B	B	A
Cod liver oil	A	A	A	A
Coffee	C	A	A	A
Coke oven gas	A	A	A	D
Copper acetate	D	A	A	A
Copper acetate dry	B	B	B	A
Copper Chloride moist	C	C	C	A
Copper Cyanide	D	A	A	A
Copper nitrate	C	A	A	A
Copper Sulphate	C	B	B	A
Corn oil	A	A	A	A
Corn syrup	A	A	A	A
Cotton seed oil	A	B	B	A
Creasote (coal tar)	A	A	A	A
Creosol	B	B	A	A
Crude oil	C	C	B	A
Crude wax	A	A	A	A
Cutting oil	A	A	A	A
Cynogen gas	D	A	A	D
Cyclohexane	B	A	A	A
Cyclohexanone	D	B	B	A
Cymene	D	D	D	A
DDT	C	A	A	A
Decaline	D	D	D	A
Denatured Alcohol	A	A	A	A
Diancentone	A	A	A	A
Diancentone Alcohol	A	A	A	A
Di benzyl Ether	A	A	A	A
Dibutyl Ether	A	A	A	A
Dibutyl Pthalate	A	B	A	A
Dibutyl sebacate	D	D	D	A
Di chlorobenzene	D	A	A	A
Di chloroethan- dry	A	B	B	A
Di chloroethane - moist	C	C	C	C
DiChloro ethylene dry	B	B	B	A
Di Chloro ethylene moist	C	C	C	A
Dichlorophenol	C	B	B	A
Diesel oil	A	A	A	A
Diethylamine	C	D	B	A
Diethyle ether	A	A	A	A

Chemicals	Carbon steel	SS304		
		/321	SS316L	TEFLON
Diethylene glycol	A	A	A	A
Diethylene Pthalate	D	A	A	A
Diethyle sebacate	D	A	A	A
Di iso butyl ketone	D	A	A	A
Di iso propyle ketone	D	A	A	A
Dimethyle analine	D	D	D	A
Dimethyle formamide	A	A	A	A
Dimethyle Pthalate	D	D	D	A
Di iso cyanate	B	A	A	A
Di methyl sulphate	B	B	B	D
Di octyle Pthalate	A	A	A	A
Dioxane	A	A	A	A
Di Pentane	A	A	A	A
Epi Chloro hydrin dry	C	A	A	A
Epi Chloro hydrin moist	C	C	C	D
Epsom salt (Mg Sulphate)	D	A	A	A
Ethane	A	A	A	A
Ethanol	C	A	A	A
Ethanol amine	A	B	A	A
Ether	A	B	A	A
Ethyle acetate	A	B	B	A
Ethyle aceto acetate	A	A	A	A
Ethyl Acrylate	A	A	A	A
Ethylene	A	A	A	A
Ethyl Cellulose	A	A	A	A
Ethyl Benzene	B	B	B	A
Ethyl Chloride dry	B	B	B	A
Ethyl Chloride moist	C	C	C	A
Ethyle ethers	B	A	A	A
Ethyl mecaptan	B	D	D	A
Ethyl Pento chloro Benzene	B	A	A	A
Ethyl Silicate	A	A	A	A
Ethylene	A	A	A	A
Ethylene Chloride	B	A	A	A
Ethylene chloro hydrin dry	B	C	C	A
Ethylene chloro hydrin moist	C	C	C	A
Ethylene diamin	B	B	B	A
Ethylene glycol	A	B	B	A
Ethylene oxide	B	A	A	A
Fatty acid	C	B	A	A
Ferric Chloride dry	C	B	B	A
Ferric Chloride Moist	C	C	C	A
Ferric Hydroxide	D	A	A	A
Ferric Nitrate	C	A	A	A
Ferric Sulphate	C	B	A	A

ChemicalS	Carbon steel	SS304		
		/321	SS316L	TEFLON
Ferric chloride dry	B	A	A	A
Ferric Chloride moist	C	C	C	A
Ferrous Nitrate	D	A	A	A
Ferrous Sulphate	C	B	B	A
Fluoroboric acid	D	A	A	A
Fluorine Dry	A	B	B	A
Fluorine moist	C	C	C	A
Formaldihyde	B	B	B	A
Formic acid	C	C	B	A
Freon	C	A	A	A
Fruit Juices	C	A	A	A
Fuel	B	A	A	A
Fumeric Acid	D	A	A	A
Furan furfuran	A	A	A	A
Furfural	B	B	B	A
Gallic acid	C	B	B	A
Gasoline	B	A	A	A
Gelatine	C	A	A	A
Glaubar salt	A	B	B	A
Glucose	B	A	A	A
Glue	C	A	A	A
Glutamic acid	C	B	B	A
Glycerine Glycole	B	A	A	A
Glycole	A	A	A	A
Green Sulphate liquor	A	A	A	A
Heptane	A	A	A	A
Hexa Chloroethane dry	B	A	A	A
Hexa Chloroethane moist	C	C	C	D
Hexaldehyde	A	A	A	A
Hexane	A	A	A	A
Hexene	A	A	A	A
Haxyl alcohol	A	A	A	A
Hydraulic oil	A	A	A	A
Hydrene	C	A	A	A
Hydrobromic acid	C	C	C	A
Hydrocarbon acid	C	A	A	A
Hydro carbon pure	A	A	A	A
Hydrochloric acid	C	C	C	A
Hydrocyanic acid	C	B	B	A
Hydrofluoric acid	D	D	D	A
Hydrofloursilicied acid	C	C	C	A
Hydrogen	A	A	A	A

ChemicalS	Carbon steel	SS304		
		/321	SS316L	TEFLON
Hydrogen suphide dry	B	A	A	A
Hydrogen suphide moist	C	B	A	A
Hydroquinon	B	B	B	D
Ink	D	B	A	D
Iodine	D	C	C	D
Iso butyle Alcohol	A	A	A	A
Iso Octane	A	A	A	A
iso Propyl acetate	A	B	B	A
Iso Propyl alcohol	A	A	A	A
Iso Propyl Ether	A	A	A	A
Kerosine	B	A	A	A
Ketchup	D	A	A	A
Ketones	D	A	A	A
Iacaquers	A	A	A	A
Iacaquer solvent	A	A	A	A
Lactic acid	C	B	B	A
Lard	A	A	A	A
Lead (molten)	C	B	B	D
Lead aecetate	B	A	A	A
Lead Nitrate	A	A	A	D
Lime	B	A	A	A
Lime Bleach	C	B	A	D
Lime Sulpher	C	B	B	B
Linoleic acid	D	B	B	A
Linseed acid	B	B	A	A
Lithium Chloride dry	B	B	B	A
Lithium Chloride moist	B	C	C	A
Lithium Hydroxide	B	A	A	A
Lubricating oil	A	A	A	A
Magnisium chloride dry	B	B	B	A
Magnisium chloride moist	C	C	C	A
Magnisium Hydroxid	A	A	A	A
Magnisium Sulphate	B	B	A	A
Maleic Acid	B	B	A	A
Mayonnaise	D	B	A	A
Mercuric Chloride dry	B	A	A	A
Mercuric Chloride moist	C	C	C	A
Mercuric Nitrate	B	B	B	D
Mercury	B	B	B	A
Mesityl Oxide	A	B	B	A
Methane	A	A	A	A
Methyl acetate	A	B	B	A

Hydrogen chloride dry	B	B	B	A
Hydrogen chloride moist	C	D	D	A
Hydrogen peroxide	C	C	B	A

Methyle acrylate	D	A	A	A
Mthyle alcohol	A	C	B	A
Methyle Bromide	A	A	A	A

ChemicalS	Carbon steel	SS304		
		/321	SS316L	TEFLON
Methyl butyl ketone	A	A	A	D
Methyl Chloride dry	A	A	A	A
Methyl Chloride moist	C	C	C	A
Mthylene Chloride	A	B	B	A
Methyl Ethyl Ketone	B	B	B	A
Methyl Formate	A	A	A	A
Methyl Isobutyle Ketone	A	A	A	A
Methyl methacrylate	A	A	A	A
Methyl Salicylate	A	A	A	A
Milk	C	A	A	A
Mineral water	C	B	B	A
Mono Chloro Benzene	A	B	B	A
Mono Ethanol amin	A	A	A	D
Morpholine	D	A	A	A
Naphtha	B	B	B	A
Naphthaline	A	A	A	A
MaphthenIc acid	D	B	B	A
Natural gas	A	A	A	A
Nickel Acetate	A	A	A	A
Nickel Chloride dry	B	A	A	A
Nickel chloride moist	C	C	C	A
Niter cake	C	B	A	D
Nitric acid	C	D	D	A
Nitroluene	B	B	B	A
Nitrogen	A	A	A	A
Nitrogen Tetraoxide	D	D	B	D
Nitro benzene	A	B	B	A
Nitro Ethane	A	A	A	D
N-octane	A	A	A	A
Octyl Alcohol	A	A	A	A
Oil cruide	A	A	A	A
Oils vegetable	A	A	A	A
Oils mineral	A	A	A	A
Oleic acid	C	B	B	A
Oleum (Fuming H2SO4)	B	B	B	A
Oleum Spirits	C	D	D	A
Olive oil	B	B	A	A
Oxalic acid	C	D	C	A
Oxygen	A	A	A	A
Ozon	A	A	A	A
Paint	D	A	A	A
Palmitic acid	C	B	B	A
Parafin	B	A	A	A
Paregoric Compound	C	A	A	A
Peanut oil	A	B	B	A
Pentane	B	B	B	A
Perchloric acid	D	B	A	A

ChemicalS	Carbon steel	SS304		
		/321	SS316L	TEFLON
Phenol (carbolic acid)	C	B	A	A
Phorone	A	A	A	A
Phosphate ester	A	A	A	A
Phosphoric acid	C	C	B	A
Pithalic acid	C	B	B	A
Picric acid	C	A	A	A
Pinene	A	A	A	A
Pine oil	A	A	A	A
Plating solution chrome	D	C	C	A
Potassium acetate	D	A	A	A
potassium bichromate	C	A	A	A
Potassium bromide	C	C	B	A
Potassium carbonate	B	A	A	A
Potassium Chloride dry	A	A	A	A
Potassium Chloride moist	C	C	C	A
Potassium chromate	C	B	B	A
Potassium cyanide	B	A	A	A
potassium dichromate	C	A	A	A
Potassium ferricyanide	C	B	A	A
Potassium fluoride	C	B	B	A
Potassium hydroxide	B	C	B	A
Potassium Iodide	B	B	B	A
Potassium nitrate	B	A	A	A
Potassium permaganate	B	B	B	A
Potassium Sulphate	C	B	B	A
Pyrogallic acid	B	B	B	A
Propane	A	A	A	A
Propyl acetate	A	A	A	D
Propyl Alcohol	A	A	A	A
Propylene	A	A	A	A
Propylene Oxide	C	A	A	A
Propylene di chloride dry	B	A	A	A
Propylene di chloride moist	C	C	C	A
Pyridine	B	B	A	A
Pyrrolidine	B	B	A	A
Quinine	C	B	B	A
Quinine sulphate dry	C	A	A	A
Resin	C	A	A	A
Resin molten	C	A	A	A
Red oil	B	B	A	A
Salicylic acid	D	A	A	A
Sauerkraut Brine	D	C	A	A
Sea water	C	C	C	A
Sewage	B	B	B	A
Silicon grease	A	A	A	D
Silicon oil	A	A	A	D
Silver salts	C	B	B	A

Per chloro ethylene	A	B	B	A
Petroleum	A	A	A	A
Petroleum Ether	D	A	A	A

Silver nitrate	C	A	A	A
Skydrol 500/700	A	A	A	A
Soap solution	B	A	A	A

Chemicals	Carbon steel	SS304		
		/321	SS316L	TEFLON
Sodium	A	A	A	A
Sodium acetate	B	B	A	A
Sodium Bicarbonate	C	A	A	A
Sodium bisulphate	C	D	D	A
Sodium bisulphite	C	B	A	A
Sodium borate	A	C	C	A
Sodium bromide	B	D	D	A
Sodium carbonate	B	D	D	A
Sodium Chlorate dry	A	A	A	A
Sodium Chlorate moist	C	C	C	A
Sodium chloride dry	B	B	A	A
Sodium chloride moist	C	C	C	A
Sodium chromate	B	A	A	A
Sodium citrate	B	B	B	A
Sodium cyanide	B	A	A	A
Sodium dichromate	C	A	A	A
Sodium fluoride	B	C	C	A
Sodium Hydroxide	B	B	B	A
Sodium hydpochlorite dry	B	C	B	A
Sodium hydpochlorite moist	C	C	C	A
Sodium metaphosphate	C	B	B	A
Sodium metasilicate	B	A	A	A
Sodium nitrate	B	A	A	A
Sodium Nitrite	B	A	A	A
Sodium perborate	C	A	A	A
Sodium peroxide	C	A	A	A
Sodium phosphate	C	A	A	A
Sodium silicate	B	B	B	A
Sodium sulphate	B	B	A	A
Sodium sulphide	C	A	A	A
Sodium sulphite	C	B	B	A
Sodium thiosulphate	C	B	B	A
Soaybean oil	A	A	A	A
Stannic Chloride dry	B	A	A	A
Stannic Chloride moist	C	C	C	A
Stannous Chloride dry	B	A	A	A
Stannous Chloride moist	C	C	C	A
Starch aqua solution	A	A	A	A
Steam	C	A	A	A
Stearic acid	C	A	A	A
Stoddard solvent	B	A	A	A
Strontium nitrate	C	B	B	A
Styrene	B	A	A	A
Sulphate black liquor	B	B	B	A
Sulphate green liquor	B	B	B	A
Sugar solution	B	A	A	A
Sucrose solution	A	A	A	A
Sulphur dry	B	C	B	A

Chemicals	Carbon steel	SS304		
		/321	SS316L	TEFLON
Sulphur Chloride moist	C	C	C	A
Sulphur di oxide dry	C	C	B	A
Sulphur di oxide moist	C	C	B	A
Sulphur trioxide dry	C	A	A	A
Sulphuric acid (95-100%)	B	B	B	A
Sulphuric acid (80-95%)	C	C	B	A
Sulphuric acid (40-80%)	C	C	C	A
Sulphuric acid (<40%)	C	C	C	A
Sulphurous acid	C	D	C	A
Tall oil	B	B	B	A
Tannic acid	C	A	A	A
Tar	B	A	A	A
Tar bituminous	A	A	A	A
Tartaric acid	C	C	B	A
Terpineol	D	D	D	A
Tetra phosphoric acid	C	B	B	A
Tin molten	B	C	C	D
Titanium tetra Chloride	A	B	B	D
Toluene	B	A	A	A
Toluene di iso cyanate	D	A	A	A
Transformer oil	A	A	A	A
Transmission fluid type	A	A	A	A
Tri butoxyethyl phosphate	A	D	D	A
Tri Butyl phosphate	A	D	D	A
Tri chloro acetic acid	C	C	C	A
Tri Chloroethane dry	A	A	A	A
Tri Chloroethane moist	C	C	C	A
Tri Chloro ethylene dry	A	B	A	A
Tri Chloro ethylene moist	C	C	C	A
Tri cresyl phosphate	A	B	B	A
Tung oil	A	A	A	A
Turpentine	B	A	A	A
Uric acid	B	B	B	A
Varnish	B	A	A	D
Vegetable juice	C	A	A	A
Vegetable oils	A	A	A	A
Versilube	A	A	A	A
Vineger	C	A	A	A
vinyl chloride	B	A	A	A
Water Potable	C	A	A	A
Whisky	C	A	A	A
Wine	C	A	A	A
Wood pulp	A	A	A	A
Wort	A	A	A	A
Xylene	B	B	B	A
Yeast	A	A	A	A
Zinc Acetate	A	A	A	A
Zinc Chloride dry	A	B	B	A

Sulphur molten	C	C	B	D
Suphur chloride dry	C	C	C	A

Zinc Chloride moist	C	C	C	A
Zinc Molten	C	C	C	D
Zinc Sulphate	C	B	A	A