

tyco

Flow Control

Flexible Piping Systems



The following list shows the suitability of the TFC-FPS range of polypropylene hoses for use with various conveyants.

The information given is based on the best data available. However, it must be appreciated that the recommendations are given only as a guide and apply only to the chemical compatibility of the hoses. The description of a hose as "suitable" does not constitute a guarantee that the hose complies with any regulations or operating conditions governing the handling of the chemical or the use of the hose. A hose conveying a chemical having an oxidising effect should be checked for internal discolouration, particularly if the hose may subsequently be used on a conveyant where colour contamination is not permissible.

Inner wire composition of polypropylene hoses:

1. Chemiflex - Code 951 - Polypropylene covered carbon steel.
2. Chemiflex - Code 969 - Stainless Steel.
3. Oilmaster and Fuelmaster - Code 901/982 - Galvanised Steel.

Suitability is indicated by the following categories:

- A** Suitable for use at 60°C.
- B** Suitable for use at worldwide ambient temperatures.
- C** Suitable for intermittent use only at worldwide ambient temperatures.
Intermittent use is defined as that typical of ship-to-shore or road tanker transfer operations where the hose is not left full of product after use.
- D** Unsuitable or no data available.
 - End fitting material is suitable for the operating conditions applicable to the hose.
- X** End fitting material, unsuitable or no data.
 - End fitting material:
 - CS - Carbon Steel
 - SS - Stainless Steel
 - CA - Copper Alloy

For conveyants not listed or service conditions outside the scope of those described in this leaflet, consult TFC-FPS Technical Department.



Composite Hoses - Chemical Compatibility Guide

Conveyant	Hose			End Fittings		
	1	2	3	CS	SS	CA
Acetaldehyde	C	C	D	X	•	•
Acetic Acid (< 60%)	A	A	D	X	•	•
Acetic Acid (Glacial)	B	B	D	X	•	•
Acetic Anhydride	B	B	D	X	•	•
Acetoacetic Ester	C	C	D	•	•	•
Acetone	A	A	A	•	•	•
Acetone Cyanohydrin	B	B	D	•	•	X
Acetonitrile	B	B	B	•	•	•
Acetophenone	B	B	B	•	•	•
Acetylacetone	B	B	B	•	•	•
Acetyl Chloride	Refer to 0976/0977					
Acetylene	Metallic					
Acetylene Dichloride	B	B	B	•	•	•
Acetylene Tetrachloride	C	C	C	•	•	•
Acrolein (Acrylaldehyde)	B	B	B	•	•	•
Acrylic Acid	B	B	D	X	•	•
Acrylonitrile	A	A	D	•	•	•
Adipic Acid Aqueous	A	A	A	X	•	•
Adiponitrile	B	B	B	•	•	•
Allyl Alcohol	A	A	A	•	•	•
Allyl Bromide	C	C	C	•	•	X
Allyl Chloride	C	C	C	•	•	X
Alums Aqueous (Saturated)	A	A	A	•	•	•
Aluminium Salts - Excluding Halides (Saturated)	A	B	D	•	•	X
Aluminium Chloride (Saturated)	A	D	D		Polypropylene	
Aminoethyl Ethanolamine	B	B	D	•	•	•
Ammonia Solution	A	A	D	•	•	X
Ammonium Nitrate	Refer to 0948			X	•	X
Ammonium Salts excluding Halides (Saturated)	A	B	D	•	•	X
Ammonium Chloride (Saturated)	A	C	D	•	•	X
Amyl Acetate	C	C	C	•	•	•
Amyl Alcohol	B	B	B	•	•	•
Amyl Chloride	C	C	C	•	•	•
Aniline (Dedicated Hose)	C	B	X	•	•	X
Animal Oils	A	A	A	•	•	•
Anisole	C	C	C	X	•	X
Antimony Chloride	B	D	D	X	•	X
Aqua Regia	C	D	D		Polypropylene	
Aviation Fuel	C	C	C	•	•	•
Barium Salts (Saturated)	A	B	D	•	•	X
Beer	A	A	D	•	•	•
Benzaldehyde	C	C	D	X	•	X
Benzene	C	C	C	•	•	•
Benzene Sulphonic Acid	C	C	D	X	•	X
Benzoic Acid	A	A	D	•	•	X
Benzoyl Chloride	C	C	C	•	•	•
Benzyl Alcohol	A	A	A	•	•	•
Benzyl Butyl Phthalate	B	B	B	•	•	•
Benzyl Chloride	C	C	C	X	•	•
Bleach (<12.5% Cl)	C	C	D	•	•	X
Borax Aqueous	A	A	A	•	•	X
Boric Acid Aqueous	A	A	D	X	•	•
Brine (Saturated)	A	C	D	X	•	X
Bromine Water (Saturated)	Metallic/PTFE					
Butadiene	B	B	B	•	•	•
Butane Liquid	Refer to 0940					
Butanediol	B	B	B	•	•	•

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Conveyant	Hose			End Fittings		
	1	2	3	CS	SS	CA
Butyl Alcohol	A	A	A	•	•	•
Butyl Acetate	C	C	C	•	•	•
Butyl Acrylate	B	B	B	•	•	•
N.Butylamine	B	B	D	•	•	•
Butyl Benzene	B	B	B	•	•	•
Butyl Benzyl Phthalate	B	B	B	•	•	•
Butyl Bromide	Refer to 0976/0977					
Butyl Butyrate	B	B	B	•	•	•
Butyl Carbitol	A	A	A	•	•	•
Butyl Carbitol Acetate	C	C	C	•	•	•
Butyl Cellosolve	A	A	A	•	•	•
Butyl Cellosolve Acetate	C	C	C	•	•	•
Butyl Chloride	Refer to 0976/0977					
Butylene Glycol	A	A	A	•	•	•
Butyl Ether	B	B	B	•	•	•
Butyl Ethyl Ether	B	B	B	•	•	•
Butyl Methacrylate	C	C	C	•	•	•
Butyl Methoxyethyl Ether	C	C	C	•	•	•
Butyl Phthalate	A	A	A	•	•	•
Butyl Stearate	B	B	B	•	•	•
Butyraldehyde	C	C	D	•	•	•
Butyric Acid (<20%)	B	B	B	•	•	•
Butyrolactone	C	C	C	•	•	•
Calcium Salts excluding Halides and Hypochlorite (Saturated)	A	B	D	•	•	X
Calcium Alkyl Salicylate Solution	A	A	D	•	•	•
Calcium Chloride (Saturated)	A	C	D	X	•	X
Calcium Hypochlorite (<12.5% Cl)	C	C	D	X	•	X
Camphor Oil	C	C	C	•	•	•
Caprylic Acid	A	A	A	•	•	•
Carbinols	B	B	B	•	•	•
Carbitols	B	B	B	•	•	•
Carbitol Acetate	C	C	C	•	•	•
Carbolic Acid	A	A	D	X	•	X
Carbolic Oil (Middle Oil)	C	C	C	•	•	•
Carbon Disulphide	C	C	C	•	•	•
Carbon Tetrachloride	C	C	C	•	•	•
Carbonic Acid	A	A	D	X	•	X
Cashew Nut Shell Oil	B	B	B	•	•	•
Caustic Potash (<50%)	A	B	D	•	•	X
Caustic Soda (<50%)	A	B	C	•	•	X
Cellosolve	B	B	B	•	•	•
Chloroacetic Acid	B	D	D		Polypropylene	
Chlorine	Metallic/PTFE					
Chlorobenzene	C	C	C	•	•	•
Chlorobutane	C	C	C	•	•	•
Chloroform	C	C	C	•	•	•
Chloroprene	C	C	C	X	•	•
Chloropropionic Acid	C	C	D	X	•	X
Chlorosulphonic Acid	Metallic/PTFE					
Chlorotoluene	C	C	C	•	•	•
Chrome Alum (Saturated)	A	A	D	•	•	•
Chromic Acid Aqueous (<50%)	C	C	D	X	•	X
Citric Acid	A	A	D	X	•	•
Coal Tar Naphtha	B	B	B	•	•	•
Copper Salts excluding Halides (Saturated)	A	A	D	•	•	X
Copper Chloride (Saturated)	A	D	D		Polypropylene	

Composite Hoses - Chemical Compatibility Guide

Conveyant	Hose			End Fittings		
	1	2	3	CS	SS	CA
Creosote (Wood or Coal Tar)	B	B	B	•	•	•
Cresols (<90%)	A	A	A	•	•	X
Crotonaldehyde	C	C	C	•	•	X
Cumene	B	B	B	•	•	•
Cyclohexane	B	B	B	•	•	•
Cyclohexanol	B	B	B	•	•	•
Cyclohexanone	C	C	C	•	•	•
Cyclohexylamine	B	B	D	•	•	X
Cyclopentane	B	B	B	•	•	•
p-Cymene	B	B	B	•	•	•
Decalin	Refer to 0976/0977					
Decyl Alcohol	B	B	B	•	•	•
Decyl Acrylate	B	B	D	•	•	•
Detergents	A	A	A	•	•	•
Dextrin	A	A	A	•	•	•
Diacetone Alcohol	B	B	B	•	•	•
Diaminoethylamine	B	B	C	•	•	•
Diamylamine	B	B	C	•	•	•
Dibromoethane	B	B	D	•	•	•
Dibutylamine	B	B	C	•	•	X
Dibutyl Ether	C	C	C	•	•	•
Dibutyl Phthalate	B	B	B	•	•	•
Dibutyl Sebacate	B	B	B	•	•	•
Dichloroacetic Acid	C	D	D		Polypropylene	
Dichlorobenzene	C	C	C	•	•	X
Dichlorobutane	C	C	C	•	•	•
Dichlorodifluormethane	Refer to 0940					
Dichloroethane	C	C	C	•	•	•
Dichlorethylene	C	C	C	•	•	•
Dichloroethyl Ether	C	C	C	•	•	X
Dichloromethane	C	C	C	•	•	•
Dichloropropane	C	C	C	•	•	•
Dichloropropylene	C	C	C	•	•	•
Dichloropropionic Acid	C	C	D	X	•	X
Dicyclopentadiene	D	D	D	X	X	X
Diesel Oil	B	B	B	•	•	•
Diethanolamine	A	A	D	•	•	X
Diethylamine	B	B	D	•	•	X
Diethylaminoethanol	B	B	C	•	•	•
Diethylbenzene	B	B	B	•	•	•
Diethylene Dioxide	B	B	B	•	•	•
Diethylene Glycol	A	A	A	•	•	•
Diethylene Glycol Diethyl Ether	B	B	B	•	•	•
Diethylene Glycol Monobutyl Ether	C	C	C	•	•	•
Diethylene Glycol Monoethyl Ether	C	C	C	•	•	•
Diethylene Glycol Monobutyl Ether Acetate	C	C	C	•	•	•
Diethylene Glycol Monomethyl Ether	C	C	C	•	•	•
Diethylene Glycol Monomethyl Ether Acetate	C	C	C	•	•	•
Diethylenetriamine	B	B	D	•	•	X
Diethyl Ethanolamine	B	B	D	•	•	X
Diethyl Ether	B	B	B	•	•	•
Diethyl Ketone	B	B	B	•	•	•
Diethyl Oxalate	B	B	B	•	•	•
Diethyl Phthalate	A	A	A	•	•	•
Diethyl Sebacate	A	A	A	•	•	•
Diethyl Sulphate	B	B	D	•	•	•
Diphenylamine (molten)	Dedicated Hose Metallic			X	•	X

Conveyant	Hose			End Fittings		
	1	2	3	CS	SS	CA
Diisobutylamine	B	B	B	•	•	•
Diisobutylene	B	B	B	•	•	•
Diisobutyl Ketone	B	B	B	•	•	•
Diisobutyl Phthalate	B	B	B	•	•	•
Diisooctyl Adipate	B	B	B	•	•	•
Diisooctyl Phthalate	A	A	A	•	•	•
Diisopropanolamine	B	B	D	•	•	X
Diisopropylamine	B	B	D	•	•	X
Diisopropyl Ether	B	B	B	•	•	•
Diipropyl Ketone	B	B	B	•	•	•
Dimethylamine	B	B	D	•	•	X
Dimethyl Ethanolamine	B	B	D	•	•	X
Dimethyl Formamide	A	A	A	•	•	•
Dimethyl Ketone	A	A	A	•	•	•
Dimethyl Phthalate	B	B	B	•	•	•
Dimethyl Sulphate	B	B	D	•	•	•
Dimethyl Sulphide	B	B	B	•	•	•
Dinitrobenzene	C	C	C	•	•	•
Diocetylamine	B	B	D	•	•	X
Diocetyl Phthalate	B	B	B	•	•	•
Diocetyl Sebacate	B	B	B	•	•	•
Dioxane	C	C	C	•	•	•
Dipentene	B	B	B	•	•	•
Diphenyl Ether	B	B	B	•	•	•
Diphenylmethane Diisocyanate	B	B	B	•	•	•
Diphenyl Phthalate	B	B	B	•	•	•
Dipropylamine	B	B	B	•	•	•
Dipropylene Glycol	A	A	A	•	•	•
Dipropylene Glycol Monomethyl Ether	C	C	C	•	•	•
Disulphuric Acid	Refer to 0976/0977					
Dodecyl Alcohol	B	B	B	•	•	•
Dodecyl Benzene	B	B	B	•	•	•
Dodecyl Benzene Sulphonic Acid	C	C	D	X	•	X
Dodecyl Phenol	B	B	B	•	•	•
Dodecyl Methacrylate	D	D	D	X	X	X
Epichlorohydrin	B	B	B	•	•	•
Ethyl Alcohol	A	A	A	•	•	•
Ethanolamine	A	A	B	•	•	•
Ethoxy Ethanol	C	C	C	•	•	•
Ethoxyethyl Acetate	C	C	C	•	•	•
Ethoxy Propanol	C	C	C	•	•	•
Ethyl Acetate	C	C	C	•	•	•
Ethyl Acrylate	B	B	B	•	•	•
Ethyl Aluminium Dichloride	Refer to 0976/0977					
Ethylamine	B	B	C	•	•	•
Ethylbenzene	B	B	B	•	•	•
Ethyl Butanol	B	B	B	•	•	•
Ethyl Butylamine	B	B	C	•	•	•
Ethyl Chloride	C	C	C	•	•	•
Ethyl Cyclohexane	C	C	C	•	•	•
Ethyl Cyclohexylamine	C	C	C	•	•	•
Ethylene Carbonate	B	B	C	•	•	•
Ethylene Chloride	C	C	C	•	•	•
Ethylene Chlorohydrin	B	B	B	•	•	•
Ethylene Cyanohydrin	B	B	B	•	•	•
Ethylene Diamine	B	B	B	•	•	•
Ethylene Dibromide	B	B	C	•	•	•

Composite Hoses - Chemical Compatability Guide

Conveyant	Hose			End Fittings		
	1	2	3	CS	SS	CA
Ethylene Dichloride	C	C	C	•	•	•
Ethylene Glycol	A	A	A	•	•	•
Ethylene Glycol Monobutyl Ether	A	A	A	•	•	•
Ethylene Glycol Methyl Butyl Ether	B	B	B	•	•	•
Ethylene Glycol Monobutyl Ether Acetate	B	B	B	•	•	•
Ethylene Glycol Monoethyl Ether	A	A	A	•	•	•
Ethylene Glycol Monomethyl Ether	B	B	B	•	•	•
Ethyl Ether	B	B	B	•	•	•
Ethyl formate	B	B	D	•	•	•
Ethylene Oxide (Dedicated Hose)	B	B	D	X	•	X
Ethylene Glycol Monomethyl Ether Acetate	B	B	B	•	•	•
Ethyl Hexanoic Acid	B	B	D	X	•	X
Ethyl Hexyl Alcohol	A	A	A	•	•	•
Ethylene Glycol Monophenyl Ether	B	B	B	•	•	•
Ethyl Hexyl Acrylate	B	B	C	•	•	•
2-Ethyl Hexylamine	B	B	C	•	•	•
Ethyl Iodide	C	C	C	•	•	•
Ethyl Isobutyl Ether	B	B	D	•	•	•
Ethyl Methacrylate	C	C	C	•	•	•
2-Ethyl-3-Propylacrolein	C	C	C	•	•	•
Ethyl Propyl Ether	B	B	B	•	•	•
Ethyl Propyl Ketone	C	C	C	•	•	•
Ethyl Silicate	A	A	A	•	•	•
Ethyl Sulphate	B	B	B	•	•	•
Ethyl Vinyl Ether	B	B	B	•	•	•
Fatty Acids	A	A	D	X	•	•
Fatty Alcohols	A	A	A	•	•	•
Ferrous, Ferric Salts excluding Halides	A	B	D	•	•	•
Fluorinated Refrigerants	Refer to 0940					
Fluorine	PTFE					
Fluosilicic Acid	A	A	D	X	•	X
Formaldehyde Solution (<45%)	A	A	A	•	•	•
Formamide	A	B	D	X	•	•
Formic Acid	A	A	D	X	•	•
Freons	Refer to 0940					
Fruit Juice	A	A	D	•	•	•
Fructose	A	A	A	•	•	•
Fuel Oil	B	B	B	•	•	•
Furfural	B	B	B	•	•	•
Furfuryl Alcohol	B	B	B	•	•	•
Gallic Acid Solution	A	A	C	•	•	•
Gasoline	B	B	B	•	•	•
Gelatine Aqueous	A	A	A	•	•	•
Gluconic Acid	A	A	C	•	•	•
Glucose Aqueous	A	A	A	•	•	•
Glycerine	A	A	A	•	•	•
Green Sulphate Liquer	B	B	D	X	•	X
Glycols Aqueous	A	A	A	•	•	•
Glycolic Acid Aqueous (<37%)	A	A	D	•	•	•
Heptane	B	B	B	•	•	•
Heptanoic Acid	B	B	D	X	•	X
Heptanol	A	A	A	•	•	•
Heptanone	B	B	B	•	•	•
Heptene	A	A	A	•	•	•
Hexamethylene Diamine	B	B	C	•	•	•
Hexene	B	B	B	•	•	•
Hexanol	A	A	A	•	•	•

Composite Hoses - Chemical Compatibility Guide

Conveyant	Hose			End Fittings		
	1	2	3	CS	SS	CA
Hexylamine	B	B	D	•	•	•
Hexane	A	A	A	•	•	•
Hexylene Glycol	A	A	A	•	•	•
Hydrazine Hydrate	B	B	D	X	•	X
Hydrobromic Acid (<50%)	A	D	D		Polypropylene	
Hydrochloric Acid (<37%)	C	D	D		or PVDF	
Hydrofluoric Acid (<50%)	C	D	D		Coated Steel	
Hydrofluosilicic Acid	A	A	D	X	•	•
Hydrogen Peroxide (<50%)	B	B	D	X	•	X
Hydrogen Sulphide Aqueous (Saturated)	A	D	D	X	•	X
Hexamethylene Diamine	B	B	D	•	•	•
Hexamethylene Tetramine	B	B	D	•	•	•
Hydroquinone	A	A	A	•	•	X
Iodine Solution	B	D	D	•	•	X
Iron Salts excluding Halides (Saturated)	A	B	D	•	•	•
Iron Halides	A	D	D		Polypropylene	
Isoamyl Acetate	B	B	B	•	•	•
Isoamyl Alcohol	B	B	B	•	•	•
Isoamyl Bromide	B	D	D	X	•	X
Isoamyl Butyrate	B	B	B	•	•	•
Isoamyl Chloride	C	C	D	X	•	X
Isoamyl Ether	B	B	B	•	•	•
Isobutyl Alcohol	A	A	A	•	•	•
Isobutyl Acetate	B	B	B	•	•	•
Isobutyl Acrylate	B	B	B	•	•	•
Isobutylamine	B	B	D	•	•	•
Isobutyl Bromide	B	D	D	X	•	X
Isobutyl Chloride	B	D	D	X	•	X
Isobutyl Formate	C	C	C	•	•	•
Isobutyl Methyl Ketone	B	B	B	•	•	•
Isobutyraldehyde	B	B	D	•	•	•
Isobutyl Ether	C	C	C	•	•	•
Isooctane	C	C	C	•	•	•
Isodecyl Alcohol	A	A	A	•	•	•
Isopentane	C	C	C	•	•	•
Isopentene	C	C	C	•	•	•
Isophorone	B	B	B	•	•	•
Isoprene	B	B	B	•	•	X
Isopropyl Alcohol	A	A	A	•	•	•
Isopropanolamine	B	B	D	•	•	•
Isopropyl Acetate	C	C	C	•	•	•
Isopropylamine	B	B	D	•	•	•
Isopropylbenzene	B	B	B	•	•	•
Isopropyl Chloride	B	D	D	X	•	X
Isopropyl Ether	C	C	C	•	•	•
Isopropyl Toluene	B	B	B	•	•	•
Jams	A	A	B	•	•	•
Jet Fuel	C	C	C	•	•	•
Kerosene	B	B	B	•	•	•
Ketones	B	B	B	•	•	•
Lactic Acid (<20%)	A	B	D	•	•	•
Lanolin	A	A	A	•	•	•
Lard	A	A	A	•	•	•
Latex (Low Viscosity)	A	A	A	•	•	•
Lauryl Alcohol	B	B	B	•	•	•
Lead Alkyls		Refer to 0958		•	•	X
Lead Salts (Saturated)	A	B	D	X	•	X

Composite Hoses - Chemical Compatibility Guide

Conveyant	Hose			End Fittings		
	1	2	3	CS	SS	CA
Ligroin	C	C	C	•	•	•
Limonene	B	B	B	•	•	•
Linseed Oil	A	A	A	•	•	•
Lubricating Oil	B	B	B	•	•	•
Magnesium Salts (Saturated)	A	B	D	X	•	X
Maleic Acid in Solution	A	B	D	X	•	•
Maleic Anhydride in Solution	B	B	D	X	•	•
Malic Acid in Solution	B	B	D	X	•	X
Manganese Salts (Saturated)	A	B	D	X	•	X
Mercuric Chloride (Saturated)	A	D	D	Polypropylene		
Mesityl Oxide	A	A	B	•	•	•
Methacrylic Acid	B	B	D	•	•	•
Methyl Alcohol	A	A	A	•	•	•
Methyl Acetate	C	C	C	•	•	•
Methyl Aceto Acetate	C	C	D	X	•	•
Methyl Acetone	B	B	B	•	•	•
Methyl Acrylate	B	B	B	•	•	•
Methylamine	B	B	C	•	•	•
Methylamyl Acetate	C	C	C	•	•	•
Methylamyl Alcohol	B	B	B	•	•	•
Methyl Amylketone	B	B	B	•	•	•
Methyl Tert-Butyl Ether	C	C	C	•	•	•
Methyl Butyl Ketone	B	B	B	•	•	•
Methyl Butyraldehyde	Refer to 0976/0977					
Methyl Cellosolve	B	B	B	•	•	•
Methyl Cellosolve Acetate	C	C	C	•	•	•
Methyl Chloride	Refer to 0976/0977					
Methyl Cyanide	B	B	B	•	•	•
Methyl Cyclohexane	B	B	B	•	•	•
2-Methyl Pentene	C	C	C	•	•	•
Methylene Bromide	C	C	D	•	•	•
Methylene Chloride	C	C	C	•	•	•
Methyl Ethyl Ketone	C	C	C	•	•	•
Methyl Ethylpyridine	C	C	C	•	•	X
Methyl Formate	C	C	C	•	•	•
Methyl Isobutyl Ketone	C	C	C	•	•	•
Methyl Methacrylate	C	C	C	•	•	•
Methyl Nitrobenzene	B	B	B	•	•	•
Methyl Pentene	B	B	B	•	•	•
Methyl Pyridene	B	B	B	•	•	•
Methylstyrene	B	B	B	•	•	•
Mineral Jelly	A	A	A	•	•	•
Mineral Oil	B	B	B	•	•	•
Mineral Spirits	B	B	B	•	•	•
Mineral Wax	D	D	D			
Molasses	A	A	A	•	•	•
Monoethanolamine	A	A	B	•	•	•
Monoethylamine	B	B	C	•	•	•
Monoisopropanolamine	B	B	D	•	•	•
Mononitrobenzene	B	B	B	•	•	•
Morpholine	B	B	C	•	•	•
Motor Fuel Anti-Knock Compounds (Leaded)	Refer to 0958			•	•	X
Motor Fuel Anit-Knock Compounds (Unleaded)	B	B	B	•	•	•
Naphtha	B	B	B	•	•	•
Naphtha Solvent	C	C	C	•	•	•
Naphthalene (in Solution)	A	A	A	•	•	•
Naphthalene Molten	D	D	D	X	X	X

Composite Hoses - Chemical Compatibility Guide

Conveyant	Hose			End Fittings		
	1	2	3	CS	SS	CA
Neohexane	B	B	B	•	•	•
Nickel Chloride (Saturated)	A	D	D	X	•	X
Nickel Salts, excluding chloride (Saturated)	A	B	D	X	•	X
Nitric Acid (<10%)	A	A	D	X	•	X
Nitric Acid (10-60%)	C	C	D	X	•	X
Nitric Acid (>60%)	Refer to 0976/0977			X	•	X
Nitrobenzene	B	B	B	•	•	X
O-Nitrophenol (Soln)	A	A	D	•	•	•
Nitropropane	B	B	B	•	•	•
Nitrotoluene	B	B	B	•	•	•
Nonane	B	B	B	•	•	•
Nonyl Alcohol	B	B	B	•	•	•
Nonylphenol	B	B	C	•	•	•
Octane	B	B	B	•	•	•
Octanol	B	B	B	•	•	•
Octyl Acetate	C	C	C	•	•	•
Octyl Acrylate	B	B	B	•	•	•
Oils most Commercial	B	B	B	•	•	•
Oleic Acid	B	B	D	X	•	X
Oleum	Refer to 0976/0977			X	•	X
Oxalic Acid (<50%)	B	B	D	X	•	X
Palm Oil	B	B	B	•	•	•
Paraffin Wax	A	A	A	•	•	•
Paraldehyde	C	C	C	•	•	•
Pentachloroethane	C	C	C	•	•	X
1, 3-Pentadiene	C	C	C	•	•	•
Pentane	B	B	B	•	•	•
Pentanol	A	A	A	•	•	•
Pentanone	B	B	B	•	•	•
Pentene	B	B	B	•	•	•
Perchloric Acid (<50%)	B	D	D	X	•	X
Perchloroethylene	C	C	C	X	•	X
Petrolatum	A	A	A	•	•	•
Petroleum	A	A	A	•	•	•
Petroleum Ether	C	C	C	•	•	•
Petroleum Naphtha	C	C	C	•	•	•
Phenol	A	A	B	X	•	•
Phenoxyethanol	C	C	C	•	•	•
Phenylhydrazine	C	C	D	X	•	X
Phosphoric Acid (<95%)	A	A	D	X	•	X
Phosphorus Oxychloride	C	D	D	Polypropylene		
Phosphorus Pentoxide	A	B	D	X	•	X
Phosphorus Trichloride	B	D	D	X	•	X
Phosphorus	D	D	D	X	X	X
Phthalic Acid (<50%)	B	B	D	X	•	X
Phthalic Anhydride	D	D	D	X	X	X
Picric Acid (1%)	B	B	D	X	•	X
Pinene	B	B	B	•	•	•
Pine Oil	B	B	B	•	•	•
Plasticisers most Commercial	B	B	B	•	•	•
Polyethylene Glycol	B	B	B	•	•	•
Polypropylene Glycol	B	B	B	•	•	•
Polymethylene Polyphenyl Isocyanate	B	B	B	•	•	•
Potassium Salts excluding Halides (Saturated)	A	B	D	X	•	X
Potassium Halides	A	D	D			
Propyl Alcohol	A	A	A	•	•	•
Propenoic Acid	B	B	D	X	•	•

Composite Hoses - Chemical Compatibility Guide

Conveyant	Hose			End Fittings		
	1	2	3	CS	SS	CA
Propenoic Acid	B	B	D	X	•	•
Propiolactone	C	C	C	•	•	•
Propionaldehyde	C	C	C	•	•	•
Propionic Acid	B	B	D	X	•	•
Propionic Anhydride	C	C	D	X	•	•
Propyl Acetate	C	C	C	•	•	•
Propylamine	B	B	D	•	•	•
Propylene Glycol	A	A	A	•	•	•
Propylene Glycol Monomethyl Ether	B	B	B	•	•	•
Propylene Glycol Monoethyl Ether	B	B	B	•	•	•
Propylene Oxide (Dedicated Hose)	B	B	D	•	•	•
Propylene (Tetramer and Trimer)	C	C	C	X	•	•
Prussic Acid	A	A	D	X	•	X
Pyridine	B	B	D	•	•	•
Pyrosulphuric Acid	Refer to 0976/0977			X	•	X
Salt Solutions excluding Halides	A	B	D	•	•	•
Sea Water	A	D	D	X	•	•
Sewage	B	B	D	•	•	•
Silicon Oil	A	A	A	•	•	•
Silver Salts excluding Halides (Saturated)	A	B	D	•	•	•
Silver Halides (Saturated)	A	D	D		Polypropylene	
Soap Solutions	A	A	B	•	•	•
Sodium Salts excluding Halides (Saturated)	A	B	D	•	•	•
Sodium Chlorate (solution of 50% or less)	A	A	D	X	•	•
Sodium Chloride (Saturated)	A	B	D	X	•	•
Sodium Chromate	B	B	B	•	•	•
Sodium Hydrosulphide	A	B	D	•	•	•
Sodium Hypochlorite (<15%)	C	C	D	X	•	X
Sodium Hydroxide Solution	A	A	C	•	•	•
Stannous, Stannic Salts excluding Halides	A	B	D	•	•	•
Starch Aqueous	A	A	B	•	•	•
Styrene Monomer	B	B	B	•	•	•
Sugar Syrup	A	A	A	•	•	•
Sulphamic Acid	A	A	D	X	•	X
Sulpholane	D	D	D	X	X	X
Sulphonyl Chloride						
Sulphur Chloride		Metallic/PTFE				
Sulphur Dioxide	C	C	D	X	•	X
Sulphur Molten		Refer to 0939		X	X	X
Sulphuric Acid (<20%)	B	B	D	•	•	X
Sulphuric Acid (20-85%)	B	D	D		Polypropylene	
Sulphuric Acid (>85%)	C	C	D	•	•	X
Sulphurous Acid	B	B	D	•	•	X
Sulphuryl Chloride	D	D	D	X	X	X
Tall Oil	A	A	A	•	•	•
Tallow	A	A	A	•	•	•
Tannic Acid (<10%)	A	A	D	X	•	•
Tartaric Acid	A	B	D	X	•	•
Tetrachloroethane	C	C	C	•	•	•
Tetrachloroethylene	C	C	C	•	•	•
Tetraethylene Glycol	B	B	B	•	•	•
Tetrahydrofuran	C	C	C	•	•	•
Thionyl Chloride		Metallic/PTFE				
Tin Salts excluding Halides (Saturated)	A	B	D	•	•	•
Tin Halides	A	D	D		Polypropylene	
Titanium Tetrachloride	C	D	D		Polypropylene	
Toluene	C	C	C	•	•	•

Conveyant	Hose			End Fittings		
	1	2	3	CS	SS	CA
Toluene Diisocyanate	B	B	B	•	•	•
o-Toluidine	B	B	C	•	•	X
Transformer Oil	B	B	B	•	•	•
Transmission Oil	B	B	B	•	•	•
Tributylamine	B	B	B	•	•	•
Tributyl Phosphate	B	B	B	•	•	•
Trichloroacetic Acid (<10%)	A	B	D		Polypropylene	
Trichlorobenzene	C	C	C	•	•	•
Trichloroethane	C	C	C	•	•	•
Trichloroethylene	C	C	C	•	•	•
Trichloropropane	C	C	C	•	•	•
Tricresyl Phosphate	B	B	B	•	•	•
Tridecanol	B	B	B	•	•	•
Triethanolamine	B	B	D	•	•	•
Triethylamine	B	B	D	•	•	•
Triethylbenzene	B	B	B	•	•	•
Triethylene Glycol	A	A	A	•	•	•
Triethylene Tetramine	B	B	D	•	•	•
Triisopropanolamine	B	B	D	•	•	•
Trimethyl Acetic Acid	A	A	D	•	•	•
Trimethylbenzene	B	B	B	•	•	•
Trioctyl Phosphate	B	B	B	•	•	•
Tripropylene Glycol	A	A	A	•	•	•
Tripropylene Glycol Monomethyl Ether	C	C	C	•	•	•
Tritolyl Phosphate	B	B	B	•	•	•
Trixylenyl Phosphate	B	B	B	•	•	•
Turpentine	C	C	C	•	•	•
Urea Aqueous	A	B	B	•	•	X
Urea/ammonium Salt Solutions	A	B	B	•	•	X
Urea/ammonia Solution	A	B	B	•	•	X
Valeraldehyde	C	C	C	•	•	•
Varsol	A	A	A	•	•	•
Vaseline	A	A	A	•	•	•
Vegetable Oils	A	A	A	•	•	•
Vinegar	A	A	D	X	•	•
Vinyl Acetate	B	B	C	•	•	•
Vinyl Chloride		Refer to 0940				
Vinyl Ethyl Ether	C	C	C	•	•	•
Vinylidene Chloride	C	C	C	•	•	•
Vinyl Toluene	B	B	C	•	•	•
Water	A	A	A	•	•	•
White Spirit	B	B	B	•	•	•
Wine	B	B	D	X	•	X
Xylene	C	C	C	•	•	•
Xylenols	B	B	B	•	•	•
Yeast Aqueous	A	A	D	X	•	•
Zinc Salts Aqueous excluding Halides	A	B	D	•	•	•
Zinc Halides	A	D	D		Polypropylene	

Note:

Due allowance must be made when selecting a hose for extreme conditions which may apply during its use. It is not advisable to select a hose which would, during use, be subjected simultaneously to pressures, temperatures and bending radii all at the limit of its capabilities. Any such application should first be discussed with our Technical Department.

