

Chemical Compatibility Chart

for TIFT-Compoflex Polypropylene Hoses

The following chart shows the suitability of TIFT-Compoflex polypropylene hoses and end fittings for use with various fluids. The information is based on the best data available. Recommendations are given only as a guide and apply only to the chemical compatibility of the hose and end fitting material.

Please consult U.S. Hose Corp's engineering department for recommendations on applications in excess of 140°F (60°C), or for other extreme service conditions outside the scope of catalog ratings. Allowances must be made when selecting hoses for extreme service conditions. It is not advisable to select a hose which will be subjected simultaneously to pressure, temperatures and bending radii at the maximum ratings of the hose.

The description of a hose, or end fitting material, as "suitable" does not ensure that the hose complies with any regulations or operating requirements governing the handling of the chemical or the use of the hose.

A hose conveying a chemical having an oxidizing effect should be checked for internal discoloration particularly if the hose may be used on an application where color contamination is not permissible.

Inner Wire composition of TIFT-Compoflex Polypropylene Hoses

- Polypropylene Coated Carbon Steel** - (PG, PGL, PS)
Such as: Standard Duty Chemiflex PG, Chemiflex PGL and Heavy Duty Chemiflex PG.
- T-316 Stainless Steel** - (SG, SS)
Such as: Standard Duty Chemiflex SG and Heavy Duty Chemiflex SG.
- Galvanized Steel** - (GG)
Such as: Standard Duty Fuelmaster, Heavy Duty Fuelmaster and Heavy Duty Oilmaster GG.

End Fitting Materials

CS Carbon Steel

SS T-316 Stainless Steel

CA Copper Alloy

Polypropylene and aluminum end fittings are also available.

Suitability

Hose

A - SUITABLE for use at 140°F (60°C).

B - SUITABLE for use at worldwide AMBIENT temperatures.

C - SUITABLE for INTERMITTENT use at worldwide AMBIENT temperatures.

D - UNSUITABLE or no data available.

End Fittings

* - SUITABLE for the operating conditions applicable to the hose.

X - UNSUITABLE or no data available.

For fluids that are not listed or service conditions outside the scope of these described, please consult U.S. Hose Corp's engineering department.

U.S. Hose Corp. reserves the right to change specifications and ratings without notice.

CHEMICAL	HOSE			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	See Special Chemiflex			X	*	X
Acetylene	Use S/S Hose or PTFE			X	*	X
Acetylene dichloride	B	B	B	*	*	*
Acetylene tetrachloride	C	C	C	*	*	*

CHEMICAL	HOSE			FITTINGS		
	1	2	3	CS	SS	CA
Acrolein (acrylaldehyde)	B	B	B	*	*	*
Acrylamide (<50% in solution)	C	C	D	*	*	X
Acrylic acid	B	B	D	X	*	*
Acrylonitrile	A	A	D	*	*	*
Adipic acid (aqueous)	A	A	A	X	*	*
Adiponitrile	B	B	B	*	*	*
Alkyl acrylate vinyl pyridine copolymer in toluene	C	C	C	*	*	X
Alkyl benzene sulphonic acid	C	C	D	X	*	X
Allyl alcohol	A	A	A	*	*	*
Allyl bromide	C	C	C	*	*	X
Allyl chloride	C	C	C	*	*	X
Alums (aqueous - saturated)	A	A	A	*	*	*
Aluminum salts (excluding halides - saturated)	A	B	D	*	*	X
Aluminum chloride (saturated)	A	D	D			Polypropylene