



TAIEN COMPOSITE HOSE



About us

TAIEN Fluid Transmission Equipment Co.,Ltd. is one of the leading professional manufacturers and suppliers of fluid transmission equipment. Our main series products are TAIEN composite hose and TAIEN quick coupler which are hot selling in domestic and abroad and well-established in transmission equipment field.

TAIEN composite hoses are anticorrosion, soft, softness, light weight, easy carrying and installation, which are widely used in transfer petroleum and chemical fluid. Such as diesel, gasoline, solvent, acid, alkali, biodiesel and ethanol fuel blends and so on.

As a leading manufactory, we have implemented a quality control system that is strict accordance with ISO9001 standard. And we also meets the requirements of international standards and industrial prescriptive codes such as EN13765, EN13766, BS5842, BS3492, BCH, IMO, CCS, BV, United States Coast Guard and so on.

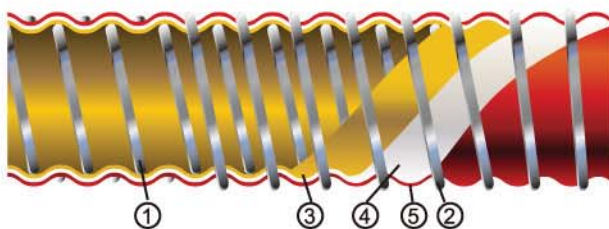
We have been engaging in improving high quality and offering affordable prices products all the time. Our principle is quality first and customers superior. We sincerely welcome friends in domestic and abroad to join us for mutual benefits.

TAIEN composite hose is robust, flexible, light weight, easy to remove. All of our hoses are 100% aromatic resistant, antistatic, electrical continuity, pressure resistance, high&low temperature resistance, corrosion resistance, low swell. With these merit, TAIEN composite hose are specially engineered for the Oil and Chemical transfer.

TAIEN Composite hose are used in many transmission fields such as ship-to-ship, ship-to-shore, dockside, general shipboard, tank trucks, railcar, chemical industry, and so on.



TAIEN composite hose Construction



1. Inner wire:

Galvanized carbon steel (G)/ Stainless steel (S)/ PP coated Stainless Steel wire (P)

2. Outer wire :

Galvanized carbon steel (G)/ Stainless steel (S)/ PP coated Stainless Steel wire (P)

3. Inner-layer: PP /PTFE/PE/NYLON/FEP films

4. Polypropylene fabrics and so on

5. PU/PVC fabrics

Products number

You can order the hose with the number. such as: GGP025150 (oil hose)

GGP	025	150	G	G	P
TYPE	Diameter	Working pressure	Inner wire	Outer wire	Inner layer

3. TAIEN TANKER HOSE

Applications:

TAIEN Tanker hoses are used in railcar and road tanker, loading and unloading; storage tank and in-plant etc. Specifically engineered to handle oil, petrol, diesel, lubricating oil etc.

Work safety factor: 4:1

Color : Red /Blue/Black



TYPE	GGP	PGP	SSP	SGT
Inner wire	Galvanized Steel	PP coated stainless steel	Stainless steel	Stainless steel
Outer wire	Galvanized Steel	Galvanized Steel	Stainless steel	Galvanized Steel
Inner layer	Polypropylene	Polypropylene	Polypropylene	Teflon
W.T	-30°~+90°			
W.P	100Psi, 150Psi, 220Psi			
Size	2"~6"			

GGP is used for Hydrocarbons liquid (highly volatile, flammable liquid mixtures)

PGP SSP SGT SST TST are used in transfer chemical liquid (corrosive, volatile)

Teflon inner layer is the best corrosion-resistant materials

4. TAIEN LOADING HOSE

Applications:

TAIEN Loading hose is a professional heavy-duty hose for transfer bulk chemical and petroleum products in particular, applying dockside and ship, ship to ship.

Work safety factor: 4:1

Color : Red /Blue/Black



TYPE	SGP	PGP	SSP	SGT	SST	TST
Inner wire	Stainless steel	PP coated stainless steel	Stainless steel	Stainless steel	Stainless steel	Teflon coated stainless steel
Outer wire	Galvanized Steel	Galvanized Steel	Stainless steel	Galvanized Steel	Stainless steel	Stainless steel
Inner layer	Polypropylene	Polypropylene	Polypropylene	Teflon	Teflon	Teflon
W.T	-30°~+90°					
W.P	220Psi, 360Psi					
Size	2"~10"					

GGP is used for Hydrocarbons liquid (highly volatile, flammable liquid mixtures)

PGP SSP SGT SST TST are used in transfer chemical liquid (corrosive, volatile)

Teflon inner layer is the best corrosion-resistant materials

7. TAIEN HIGH-TEMPERATURE HOSE

Applications:

TAIEN High- temperature hose is used in the High-temperature field; transfer hot oil, hot water and so on.

Work safety factor: 4:1

Color : Red

TYPE	UT-SGT	UHT-SGT
Inner wire	Stainless steel	Stainless steel
Outer wire	Galvanized Steel /Stainless steel	/Galvanized Steel /Stainless steel
Inner layer	TAIEN composite material	TAIEN composite material
W.T	-30°~+150°	-30°~+220°
W.P	250PSI	
Size	1"~10"	



TAIEN composite hose parameters

I.D. (mm/inch)	Max. W.P (PSI/MPa)	Burst Pressure (PSI/MPa)	weight (Kg/m)	Bend Radius (mm)
25/1	150/1.03	600/4.2	0.9	100
38/	150/1.03	600/4.2	1.5	110
51/2	150/1.03	600/4.2	1.8	125
65/	150/1.03	600/4.2	2.5	150
76/3	150/1.03	600/4.2	2.3	200
100/4	150/1.03	600/4.2	3.8	380
150/6	150/1.03	600/4.2	9.9	500
25/1	220/1.516	880/6.06	1.2	100
38/	220/1.516	880/6.06	2.0	120
51/2	220/1.516	880/6.06	2.2	180
65/	220/1.516	880/6.06	2.5	260
76/3	220/1.516	880/6.06	3.0	260
100/4	220/1.516	880/6.06	5.0	400
152/6	220/1.516	880/6.06	14	600
202/8	220/1.516	880/6.06	22	800
252/10	220/1.516	880/6.06	27	1100

- For more information of special hose (High/low temperature hose, High Pressure hose and so on), please contact with our engineers or click our website: www.taien.cc
- Our test temperature is 23°±2°. Parameters just for your reference. For more information. Please contact with us.

TAIEN Hose Transfer Sheet

1.P.S.

· Inner wire

S=Stainless steel 304/316

G=Galvanized Steel

P=Polypropylene

· Inner liner

P=Polypropylene

T=Teflon(PTFE)

2. Coupling material

CS=Carbon Steel SS=stainless steel CA=brass

3.Working environment

A = Can be worked under 70 °C

B = Can be worked under general temperature

C = Can't be continued for a long time, must be cleaned after working

D = Not Recommended

4. Coupling material:

"√" = Excellent "X" = Not recommended

TAIEN COMPOSITE HOSE

Conveyant	Hose					End fittings		
	Inner wire					CS	SS	CA
	S	S	G	P	T			
	Inner liner							
	P	T	P	P	T			
Coal tar naphtha	B	B	B	B	B	✓	✓	✓
Diesel oil	B	B	B	B	B	✓	✓	✓
Fuel oil	B	B	B	B	B	✓	✓	✓
Turpentine	C	B	C	C	B	✓	✓	✓
Vaseline	B	B	B	B	B	✓	✓	✓
White spirit	B	B	B	B	B	✓	✓	✓
Jet fuel	C	B	C	C	B	✓	✓	✓
Motor fuel anti-knock compounds	B	B	B	B	B	✓	✓	✓
Paraffin wax	B	B	B	B	B	✓	✓	✓
Petroleum	B	B	B	B	B	✓	✓	✓
Petroleum ether	C	B	C	C	B	✓	✓	✓
Petroleum naphtha	C	B	C	C	B	✓	✓	✓
Transformer oil	B	B	B	B	B	✓	✓	✓
Vinyl acetate	B	A	C	B	B	✓	✓	✓
Vinegar	A	A	D	A	A	×	✓	×
Vinyl ethyl ether	C	B	C	C	B	✓	✓	
Vinylidene chloride	C	B	C	C	B	✓	✓	
Vinyl toluene	C	B	C	C	B	✓	✓	
Zine salts aqueous excluding halides	B	B	D	B	A	✓	✓	
Sodium hydrosulfide	B	A	D	B	A	✓	✓	
Sodium hydroxide	B	B	D	B	A	✓	✓	✓
Sodium chloride	C	B	D	B	A	×	×	✓
Sodium hypochlorite 20%	C	C	D	C	B	×	×	×
Sulphuric acid 20%	B	B	D	B	A	✓	✓	×
Sulphuric acid 20-85%	C	C	D	C	B	Exclusively Coupling		
Sulphuric acid 85%	C	B	D	C	B	✓	✓	×
Nitric acid 100%	B	B	D	A	A	×	✓	×
Nitric acid 70%	D	C	D	C	B	×	✓	×
Nitric acid 60%	C	B	D	B	A	×	✓	×
Nitric acid 30%	B	B	B	B	A	×	✓	×
Nitropropane 100%	C	B	C	C	B	✓	✓	✓
Nitrotoluene 100%	B	B	C	B	B	✓	✓	✓

Note: Bust pressure indicated is at ambient temperature. Max. temperature rating can be maintained when working within limits of working pressure.

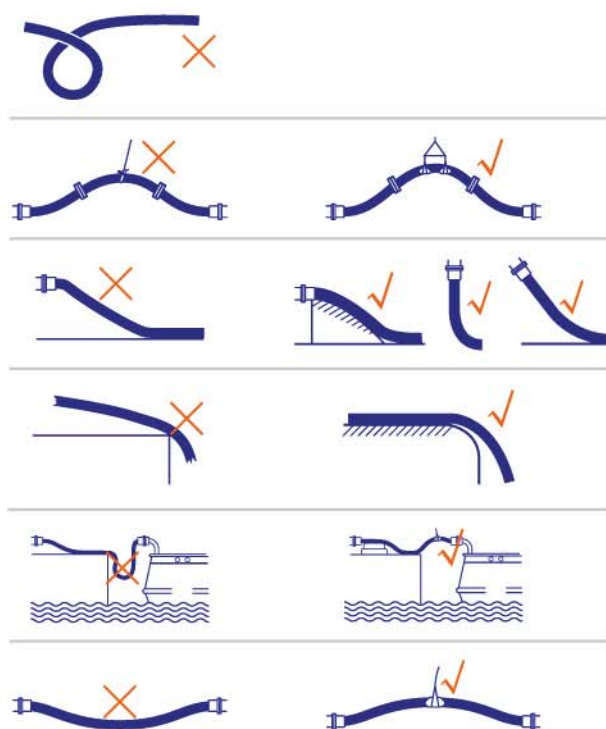
Low Temperature Composite Hose Transfer Sheet

All wires of low temperature composite Hose are stainless steel. Transfer fluid as follows:

Butane/propane mix	Fluorinated refrigerants	Refrigerant gases
Ammonia	Acetaldehyde	Butadiene
Butane liquid	Butane	Butylene
Dimethylamine	Ethylamine	Ethyl chloride
Methyle acetylene	Methyl bromide	Propane
Propadiene	Propylene	Vinyl chloride
Freon		

Installation and Maintenance

- Hose assemblies must not be twisted either during installation or in used.
- Hoses must not be over flexed or bent into a smaller diameter than the specified minimum bend radius.
- Hose assemblies should be installed so that flexing always occurs in the same plane.
- It is recommended that flanged assemblies have a floating flange on one end for easier installation and to reduce the possibility of twist handling.
- Hoses should be stored in a straight line on solid supports or racks. Large bore hoses should be carried on a dollie or moved by crane.
- Hoses must not be supported by a single rope or wire. A wide belt sling should be used, supporting the hose at least every 3metres. Avoid curvatures that are less than the minimum bend radius of hose.
- Do not allow sharp bends adjacent to the end connection fitting-this area is the weakest spot in any type of hose.





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