

FLEXIBLE COMPOSITE HOSES FOR CARGO TRANSFERS



# Compoflex the vital link in Cargo transfer

The point of transfer is the most vulnerable in the chain of production, distribution and use of bulk hydrocarbons, chemicals and liquefied gases.

The flexible link from one bulk container to another must be reliable, easy to manoeuvre, resistant to internal and external wear and suitable for whatever product is being moved, however hazardous.

For nearly 50 years the vital link has been Compoflex.

# Compoflex with Confidence

# Manufacturing and applications

Compoflex, part of United Flexible, have been at the forefront of composite hose design and manufacture for almost half a century and are acknowledged as world leaders.

All Compoflex hoses are manufactured to stringent quality standards to ensure the highest levels of reliability and durability.

At the Compoflex plant in Mid-Glamorgan, this commitment to quality has



been backed by considerable financial investment in plant and advanced manufacturing techniques. In addition, Compoflex is backed by the vast resources of the Senior Engineering Group plc.
Compoflex hoses are designed to meet the most

demanding applications throughout the world and offer strength, light weight, flexibility and versatility for variations in pressure, temperature and compatibility. In addition, all hoses

In addition, all hoses incorporate unique safety features to ensure the health and safety of personnel during bulk liquid transfer of hazardous chemicals and hydrocarbons and to reduce the risk of environmental pollution and the cost of spillage.



# Product range

Compoflex produce a comprehensive range of composite hoses, specifically engineered to handle all kinds of transfer applications safely and easily.

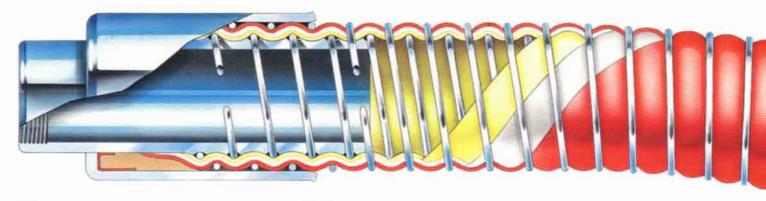
Cryoflex hoses are designed for use with cryogenic products at temperatures down to -200°C or at pressures up to 25 bar.

Chemiflex hoses are chemically compatible and mechanically engineered to handle a wide range of hazardous chemicals.

Fuelmaster and Oilmaster hoses are specifically engineered for the transfer of hydrocarbons, including oils, petrol, diesel, lubricating oils, paraffin and 100% aromatics.

# Couplings

Compofiex offer a comprehensive range of end fittings for their hoses, normally supplied to customer requirements and available in a variety of materials, including carbon and stainless steel. The range also includes proprietary quick release couplings, adapters and accessories such as blank caps and dust plugs.



# Quality standards and testing

As Compoflex hoses form vital links in the transfer of often hazardous materials, they have to be totally reliable. All hoses, therefore. are manufactured under a stringent continuous quality management system, having been prototyped and certified by approval bodies such as Lloyds and the UK Marine Safety Agency in accordance with BS 5842 and IMO criteria. Full hose test certification is available to customers' requirements.

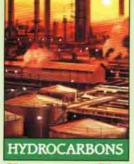


The latest manufacturing and quality assurance techniques have been selected because of their high and consistent quality standards whilst further quality assurance is guaranteed by the extensive use of systems such as Non-Destructive Testing and Statistical Process Control. The rated working pressure of any Compoflex hose is based on a safety factor of at least 4:1 at ambient temperature when tested in accordance with ISO 1402/BS 5173 Part 102 Section 102.1 (1985). A hose rated at 100 psi, for example, is pressure tested to 150 psi. while burst pressure would be 400 psi, minimum. Continuous quality management, recognised

by the award ISO 9001 by

Lloyds Register of Quality Assurance and rigorous testing of products ensure the consistency of excellence that is demanded by customers worldwide.





Composite with Confidence

### FLEXIBLE COMPOSITE HOSES FOR HYDROCARBONS TRANSFER

The most vulnerable link in the chain of production, distribution and use of bulk hydrocarbons is the point of transfer.

Compoflex produce a comprehensive range of composite hoses, specifically engineered to safely and easily handle hydrocarbons,

including oils, petrol, diesel, lubricating oils, paraffin and 100% aromatics, in all kinds of transfer.



# HOSE TYPES AND APPLICATIONS

Standard Fuelmaster 0954 and Oilmaster 0901 hoses are designed as general purpose hoses for the transfer of a wide variety of hydrocarbon conveyant under suction or pressure.

Standard Duty Fuelmaster hoses are used in such applications as low pressure transfer for road and rail tanker loading and discharging, storage tank and in-plant use. Conveyants include light distillates such

as petrol, diesel, paraffin/ kerosene and 100% aromatics.

Where exceptionally low weight is indicated, Lightweight Fuelmaster 0955 substitutes an aluminium inner spiral. It is suitable for similar conveyants to the standard version and is also used for aviation spirit.

Standard Duty Oilmaster hoses, for road and rail tanker and in-plant applications, are used for black oils and heavier lubricating products in addition to the same conveyants as Fuelmaster. Heavy Duty Oilmaster 0982 hoses, including bores up to

10", are suitable for ship-toshore, dockside and general shipboard use.



	Composiex LIGHTWEIGHT FUELMASTER	Composiex STANDARD DUTY FUELMASTER	Compositex STANDARD DUTY OILMASTER	Composiex HEAVY DUTY OILMASTER
Colour	RED	BLUE	BLACK	BLUE
Code	0955	0954	0901	0982
Temperatures	-20° to +80°C	-20° to +80°C	-20° to +80°C	-20° to +80°C

All hoses are suitable for the temperature range -20° to +60°C but these are subject to pressure derating factors. Higher temperatures are permitted for intermittent use subject to confirmation by Compofiex's Technical Department.

### Construction

Inner Wire	Aluminium	Aluminium Galvanised Galvanised Galvanised Galvanised Carbon Steel Carbon Steel Carbon Steel								
Wall Materials	Polymeric fabrics and	films selected according to	resistance and strength.							
Outer Wire	Galvanised Steel	Galvanised Steel	Galvanised Steel	Galvanised Steel						

Manufacturing length

All hoses are manufactured in standard lengths of 20m except the Heavy Duty Oilmaster.

Nominal Internal Diameter		Maximum Working Pressure			Minimum Bend Radius		ight	Maximum Manufacturing Length		
mm	in	bar	lb/in <sup>2</sup>	mm	in	kg/m	lb/ft	m	ft	
COMPO	FLEX FU	JELMAS	TER (095	1)						
25	1	10.5	150	100	4	0.9	0.0	20	66	
32	11/4	10.5	150	100	4	1.0	0.7	20	66	
38	11/2	10.5	150	125	5	1.2	0.5	20	66	
50	2	10.5	150	125	5	1.6	11	.20	66	
65	21/2	10.5	150	150	6	2.2	14	.20	66	
75	3	10.5	150	175	7	26	17	20	66	
100	4	10.5	150	250	10	3.4	23	20	66	
COMPO	FLEX FU	JELMAS	TER (095	5)/012						
50	2	10.5	150	125	5	1.0	0.7	20	66	
65	21/2	10.5	150	150	6	1.6	1.1	20	66	
75	3	10.5	150	175	7	1.8	12	20	66	
100	4	10.5	150	250	10	24	1.6	20	66	
COMPO	FLEX 51	ANDAR	DDUTY	DILMAS	TER (090	01)				
25	1.	14	200	100	4	0.9	0.6	20	66	
32	11/4	14	200	125	5	1.0	0.7	20	66	
38	11/2	14	200	140	51/2	1.3	0.9	20	66	
50	2	14	200	180	7	22	1.4	20	66	
65	21/2	14	200	200	8	2.7	18	20	66	
75	3	14	200	280	11	33	22	20	66	
100	4	14	200	400	16	51	3.4	20	66	
COMPO	FLEX H	EAVY DI	JTY OILM	LASTER (	(0982)					
75	3	14	200	280	ш	3.75	25	15	50	
100	4	14	200	400	16	6.5	4.3	15	50	
150	6	-14	200	500	20	11.0	7.4	15	50	
200	8	14	200	740	29	15.0	10.0	15	50	
250	10	10.5	150	920	36	21.0	14.0	12	40	

Standards: Both weights of Fuelmaster hoses comply with BS 3492 (1987) AX & BX and the standard Oilmaster hose attains both this and BS 5842 (1980).

### CONSTRUCTION

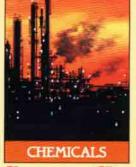
Standard hydrocarbon hoses are manufactured from multi-layers of polypropylene fabric and film with a weatherproof and abrasion resistant outer cover. The hose layers are held and tensioned between internal and external wire helices.

Computer-aided design has resulted in exceptional strength-to-weight ratios and extreme flexibility, giving the hoses excellent handling characteristics. This ensures ready operator acceptance and encourages good usage practice.

The standard production length is 20m (with the

exception of 0982). All hoses are supplied with factory-fitted end connections to the customer's requirements.

Both weights of Fuelmaster hoses comply with BS 3492 (1987) AX + BX and the standard Oilmaster attains both this and BS 5842 (1980).



Compoflex with Confidence

### FLEXIBLE COMPOSITE HOSES FOR CHEMICALS TRANSFER

The point of transfer is the most vulnerable link in the chain of production, distribution and use of bulk chemicals. Compoflex produce an extensive range of composite hoses, chemically compatible and mechanically

engineered to handle hazardous chemicals, safely and easily, in all kinds of transfer applications.



# HOSE TYPES AND APPLICATIONS

Chemiflex 0951, the original standard product with a working pressure of 200 psi and bore diameters between 1" and 4", is suitable for road, rail tanker and in-plant applications.

For lighter duties, Chemiflex 0949 offers superior flexibility for ease of use. Heavy duty Chemiflex 0969/0998 and Marine 1000 hoses are available in sizes up to 10" diameter, offering higher working pressures



and suitability for very arduous operating conditions including ship-toshore, dockside and general shipboard use. The Chemiflex range incorporates as standard a polypropylene covered inner wire and galvanised steel outer wire. Stainless

steel can be substituted where appropriate.
The full Compoflex range includes a number of specifically engineered hoses incorporating other thermoplastic and fluorocarbon materials.
These hoses are suitable for particularly hazardous working conditions or difficult to handle conveyants.

Chemiflex Hose	Compositex 0949 STANDARD DUTY	Composiex 0951 STANDARD DUTY	Composiex 0998 HEAVY DUTY	Composiex 0969 HEAVY DUTY
Colour	PURPLE	GREY	GREY	GREEN
Code	0949	0951	0998	0969
Temperatures	-20° to +80°C	-20° to +80°C	-20° to +80°C	-20° to +80°C

Temperatures are subject to pressure derating factors.

Higher temperatures are permitted for intermittent use subject to confirmation from Compollex's Technical Department.

### Construction

Inner Wire	Anti Static Polypropylene Covered Steel	Anti Static Polypropylene Covered Steel	Anti Static Polypropyelene Covered Steel	316 Stainless Steel
Wall Materials	Polymenic fabrics and films	selected according to cher	mical resistance and strength	h.
Outer Wire	Galvanised Steel	Galvanised Steel	Galvanised Steel	Galvanised Steel

1.0	Nominal nternal Diameter		al Diameter Working Pressure		Minimum Bend Radius		Wei	ight	Maximum Manufacturing Length		
mm	in	bar	lb/in	mm	in	kg/m	lb/ft	m	ft		
CHEMI	FLEX 09	49 STAN	DARD DU	ЛУ			100				
25	1	10.5	150	100	4	0.9	0.6	20	66		
32	11/4	10.5	150	100	4	1.0	0.7	20	66		
38	11/2	10.5	150	125	5	1.2	0.8	20	66		
50	2	10.5	150	125	5	16	11	20	66		
64	21/2	10.5	150	150	6	21	1.4	20	66		
76	3	10.5	150	175	7	25	1.7	20	66		
102	4	10.5	150	250	10	37	25	20	66		
CHEMI	FLEX 09	51 STAN	DARD DU	TY							
25	1	14	200	100	4	0.9	0.6	20	66		
32	11/4	14	200	100	4	1.0	0.7	20	66		
38	11/2	14	200	127	5	1.2	0.8	20	66		
50	2	14	200	178	7	1.8	1.2	20	66		
64	21/2	14	200	178	7	25	17	20	66		
76	3	14	200	203	8	3.0	2.0	20	66		
102	4	14	200	304	12	4.3	29	20	66		
CHEMI	FLEX 09	69/0998	HEAVY D	UTY							
75	3	14	200	280	11	3.4	23	15	50		
100	4	14	200	400	16	6.5	4.3	15	50		
150	6	*14	200	500	20	11.0	7.4	15	50		
200	8	14	200	740	29	15.0	10.0	15	50		
250	10	10.5	150	920	36	21.0	14.0	12	40		

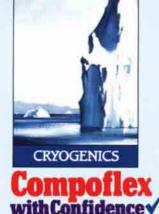
### CONSTRUCTION

Compoflex chemical transfer hoses are constructed from multi-layers of thermoplastic films which form a sealing and permeation barrier, supported by fabric layers for mechanical strength. The hose layers are held and tensioned by internal and external steel wire helices.

Compoflex Chemiflex hoses comply with various national and international standards including BS 5842 (1980) and U.S. Coastguard Regulations and can be marked accordingly. Chemiflex Marine 1000 hoses, type approved to IMO Codes BCH and IBC requirements are available on request.

The standard production length is 20m (with the exception of 0969/0998).

Chemiflex hoses are supplied with factory-fitted end connections to the customers' requirements. An extensive range of couplings, either externally swaged or wire-whipped is available.



### FLEXIBLE COMPOSITE HOSES FOR CRYOGENICS TRANSFER

In the chain of production, distribution and use of liquefied gases, the combination of high pressure and low temperature makes the point of transfer the

most vulnerable link.
Compoflex produce a
comprehensive range of
Cryoflex Composite
hoses for handling
cryogenics products at
temperatures down to

-200°C or at pressures up to 25 bar. These are specifically engineered to handle all kinds of transfer applications, notably ship-to-shore, safely and easily.



# HOSE TYPES AND APPLICATIONS

Cryoflex hoses are suitable for the transfer of a wide variety of cryogenic materials under pressure at low temperatures.

Cryoflex hoses are used in such applications as road and rail tanker loading and discharging, storage tank and in-plant use. Larger bores are indicated for shipto-shore and ship-to-ship transfers.

Fully refrigerated conveyants down to -50°C include the



- following as listed in Chap XIX Gas Carrier Code:
- ☐ Ammonia
- ☐ Acetaldehyde
- ☐ Butadiene
- ☐ Butane/propane mixes
- ☐ Butane ☐ Butylene
- ☐ Dimethylamine
- ☐ Ethylamine
- ☐ Ethyl Chloride

- ☐ Methyl Acetylene
- Methyl Bromide
   Propane □ Propadiene
- ☐ Propylene
- ☐ Vinyl Chloride
- ☐ Refrigerant Gases

Cryoflex 50 is also suitable for liquid ethane at -88°C and liquid ethylene at -108°C. Cryoflex 200 hoses are designed for similar applications but with liquid gases, such as liquid nitrogen and L.N.G. (methane), at extremely low temperatures down to -200°C. Cryoflex 200 is not suitable for conveying ammonia.

	Composite CRYOFLEX 50	Composite CRYOFLEX 200
Colour	WHITE/GREEN	WHITE
Code	0940	0933
Temperatures	-50° to +50°C	-200° to +50°C

Construction: Inner & outer wires - 316 stainless steel.

Wall materials - polymeric fabrics & films selected according to resistance and strength.

Nominal Internal Diameter		Maximum Working Pressure		Minimum Bend Radius		Weight		Maximum Manufacturing Lengt		
mm	in	bar	lb/in <sup>2</sup>	mm	in	kg/m	lb/ft	m	ft	
COMPO	FLEX C	RYOFLE	X 50 (094	0)						
25	1.	25	362	150	6	0.9	0.6	15	50	
38	11/2	25	362	175	7	1.6	1.1	15	50	
50	2	25	362	200	8	24	1.6	15	50	
75	3	25	362	250	10	4.5	3.0	15	50	
100	4	21	300	500	20	75	5.0	15	50	
150	6	21	300	660	25	13.8	9.3	14	45	
200	8	15	215	910	36	18.7	125	12	40	
COMPC	OFLEX C	RYOFLE	X 200 (09:	33)						
12	1/2	10.5	150	125	5	0.33	0.22	15	50	
25	1	10.5	150	150	6	0.67	0.45	15	50	
38	11/2	10.5	150	175	7	1.2	0.8	15	50	
50	2	10.5	150	200	8	2.0	1.3	15	50	
75	3	10.5	150	250	10	3.3	22	15	50	
100	4	10.5	150	500	20	7.5	5.0	15	50	
150	6	10.5	150	660	26	13.8	9.3	15	45	
200	8	10.5	150	910	36	18.7	12.5	12	40	
250	10	10.5	150	2500	98	22.5	15.1	10	33	

Standards: Cryoflex assemblies in bore sizes 4". 6" and 8" are certified by the UK Marine Safety Agency as complying with paragraphs 5.4 and 5.7 of the IMO Gas Carrier Code.

### CONSTRUCTION

Cryoflex 50 is manufactured from multi-layers of polyamide fabric and film whilst Cryoflex 200 utilises polyester fabric and BOPP film. Both can be further insulated by an additional rope lagging.

Cryoflex 50 and 200 hoses have 316 stainless steel inner and outer wires achieving dual wire electrical continuity by bonding to the end fittings thus safely dissipating static electrical charges which may be generated during the transfer of fluids.

Cryoflex hoses provide a high degree of safety with

hose construction having complete product compatibility to allow LPG, LNG, and associated gases to be handled safely. In addition, working pressures across the temperature range are based on a safety factor of 5:1, minimum.

Cryoflex assemblies in

Cryoflex assemblies in 4", 6" and 8" bore sizes are

certified by the UK Marine Safety Agency as complying with the IMO Gas Carrier Code.

Cryoflex hoses are supplied in standard lengths of 10 metres, with optional lengths up to a maximum of 15 metres depending on diameter. All hoses have factory-fitted end connections.



# COMPOSITE HOSE CONVEYANTS EXAMPLES LIST

The Compoflex range of polypropylene hose is designed to meet the most demanding applications throughout the world and to handle a wide variety of conveyants. The list below shows the suitability of the hoses for use with specific conveyants.

Though the information is based on the best data available, 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

		Hose		En	d Fitt	ngs
Conveyant	I.	2	3	CS	55	CA
Avaiton fuel	C	C	C			
Cost tar maphelia	3	В	23			
Diesel oil	8	Б	35			
Fuel oil	В	В	В			
let fuei	C	10	C:			
Kemsene	В	В	В			
Motor fuel and knock compounds (leaded)	Red	er to 0	958			- 36
Motor fuel arm-knock compounds (unleaded)	В	В	B		•	
Ollo most commencial	B	B	B.			
Piroffin was	A	A	٨			
Petroleum	A	A	A			
Petroleum ether	C	C	C			
Petroleum naphtha	C	C	C			
Transformer oil	- 3	В	5			
Transmission of	3	8	В			
Urperatte	- 0	C	C			
Vaseline:	A	A	·A:		•	
White spirit	- 5	В	В			

CHEMICALS						
		Hose			d Fire	
Conveyant	1_	2	3	CS	SS	CA
Acetaideltyde	C	C	D	36.	•	•
Acetic acid (< 60%)	A	A	D		•	
Antic and (Garal)	В	В	D	- 10		•
Acetic anhydride	В	В	D	1,000	•	•
Acetoxoetic ester	C	C	D	•	•	•
Acesone	Δ	. A	A		•	
Acetone cyanologian	В	В	D			×
Acestoritrie	В	В	В		•	
Acetophenone	В	В	В	•	•	•
Acetylacetone	3	В	В		•	
Acetyl chloride			efer to 0	N/b/D	77	
Acetylene		Metalli Metalli	C			
Acetylene dictiloride	В	В	B			•
Acetylene tetrachionde	0	C	C		•	•
Acrolein (acrylaldehyde)	3	- 5	B		•	
Acrylic acid	В	В	D	- 14		•
Acrylonitrile	A	.A	D		•	
Adapic acid aqueous	A.	A	A	J.K		•
Adipontrile	3	В	В			
Allyl alcohol	Α	A	A		•	
Allyt bromde	C	C	C			×
Allyl chloride	C	C	C	•	•	×
Alums aqueous (Saturated)	A	A	٨	•	•	•
Aluminum salts excluding buildes (Sanamed)		В	D	•	÷	×
Aluminum chloride (Saturated)	A	D	D			_
Aminoethyl ethanolamine	B	В	D	POP	SEE S	
	Á					
Ammonia solution		A	D		•	×
Ammorium nitrate		erto		-	•	*
Ammonium saits excluding halides (Saturated)	A	В	D	•	•	×
Ammonum chloride (Saturated)	Α.	C	D			36
Arryl acetaire	C		C	•	•	
Arryl alcohol	B	В	D	•	•	
Arryl chloride	-0	C	C		•	
Aniline (dedicated hose)	- E	В	*			
Animal oils	A.	: 6	Α			
Arisole	C	C	C	180		30
Aramony chionde	5	D	D	- 1		*
Aquamgia	C	D	D	Poi	N-P	PETE.
Barrum salts (Saturated)	A	3	D			×
Beer	A	A	D			
Benzaldetyde			D	×	•	ж
Beniene	0	C	C		•	
Beruene suphonic acid	C	E	D	-		*
Benzoic acid	A	A	D		•	×
Benzoyi chlonde	C	C	C		·	•
Benzyl alcohol	A	A	A	•	·	÷
	B		B			
Benryl haryl pinhalate		B			•	•
Benryl chloride	C	C	C	*	•	•
Bleach (<12.5% CT)	C	c	D	•	•	- 8
Borns aqueous	ň.	A	A	•	•	×
Bonic acut aquecus	A:	A	D	×	•	
Brine (Saturated)	A.	C	D	×	•	ж
Bromine water (Saturated)		allic/P				
Busidene	B	Б	В		•	
Butanedici	D:	5	- 8			
Butylalcohol	A	A	A.			
Buryl acetate:	A C	A	C			
Buxylacrylare	B	B	. 15			
N-Burylamine	В	В	D	•	•	•
Butyl benzene	В	В	В	•	•	•
Butyl benyl phthalate	В	8	В	•	•	•
Butyl bromde	-		der to (			-
Buryl buryrate	В	Б	В	· ·		•
Butyl carbini	A	A	A	•	•	•
Buryl carbitol acetate	C	C	C		•	•
Buryl cellosolve	Å	A	Α		•	•
Buryl cellosolve acesate	C	C	C	•	•	•
Butylichloride			die to			
Butylene glycol	A.	A	Α			•
			В		•	
Burylether	B	В				
	B	В	B	i	i	•

		_	-			_
Butyl methoxyethyl ether	(	C	C			•
Buryl phthalate	A.	A	A			•
Butyl steinate	B	B	Б	•	•	•
Buryraidehyde	C	C	D	•		•
Butyric acid (< 20%)	B	ō	Ď.			•
Butyrolactone	C	C	- C	•	•	•
Calcium salts excluding halides and						
hypochlorae (Saturated)	A/	В	D D	•	•	×
Calcium alkyl salicylate solution	A:	A	D.		•	•
Calcium chloride (Saturated)	A:	C	D	- *	•	×
Calcium hypochionie ( < 12.5% Cl)	A C	C	D	36		•
Camphor of	C	E	C			•
Caprylic acid	A	A	A	•	•	•
Control	B	6	5	ě		•
Cartinols	B	- 17				
Carbitols		B	В	•		•
Cartinol acetate	C.	0	C			•
Carbolic acid	A:	E A C	000	W.	•	×
Carbolic of traddle oil	€.	C			•	
Cartxon desciptisde	C	C	-			•
Carbon resachloride	C	10	C			•
Carbonic acid	A.	٨	D	×	•	×
	3	В	В	•		•
Cashew mut shell oil						
Causic potasti (< 50%)	A-	5	D	•	•	×
Caustic soda ( < 50%)	A B	3	C	•	•	×
Cellosolve	B	В	В		•	•
Chioroacetic acid	ō.	D	D	Por	γριτργία	ne:
Chlorine	Mes		317			
Chlorobeniene	0	C	-C			•
Chlorobutane	C	C	C	•		•
Chioroform	C.	C	C	•		•
Chloropene	T	C	Č	×		÷
Chimmenton	C	C	D			
Chicroproporac acid				×	•	3
Chlorosulphonic acid	Met	allic/P	III.	-	_	-
Chiorotolijene	C	10	C			•
Chrome alum (Saturated)	Λ	. Λ	D	•	•	•
Chromic acid aqueous (< 50%)	A.	-0	D	- 16	•	×
Ctric acid	Λ	Α	D	18	•	•
Copper salts excluding halides (Saturated)	A	A	D		•	×
Consum richards (Swinger)	A	A	D.			ne
Copper chloride (Saturated)	A: B	В				
Creoscie (wood or coal tar)	D:	D	3	•		•
Crescis ( < 90%)	A.	A	A		•	×
Cromraldeltyde	C	C_	C		•	×
Cimene	В	В	В	•	•	•
Gydohexane	B	- 5	Б		•	
Gelohesmol	8	23	В	•		
	C	C	C	·		÷
Cyclohexanone	3	5	D			
Cyclohexylamine	D.	B	1947	•	•	×
Cycloperaine	В		В			•
p-Cymene .	В	В	B	•		-
Decain		Re	de to		977	
Decain	В		B B		977	
Decain Decyl alcohol		Re	de to	9976/UK	977	
Decyl alcohol Decyl acrylate	В	B B	B D	9276/08	•	•
Decyl alcohol Decyl acrylate Decyl acrylate Demografs	B B	B B	B D A	9976/(X	977	•
Decalin Decyl alcohol Decyl acrylate Democrats Destroin	B B A	B B A	B D A	976/0	•	•
Decidis Decyl alcohol Decyl alcohol Destyriate Determini Destriti Dacetore alcohol	B B A A B	B B A A	B D A	9976/Q	•	
Decalari Decyl alcohol Decyl acrylate Destroit Destroit Destroit Dacetorie alcohol Daminoetty/armne	B B A A B	B B A A B	B D A	9476/()X	977	
Decalari Decyl alcohol Decyl acrylate Demograts Destrii Diacetore alcohol Daminoetrylamine Dianylamine	B B A B B	B B A A B B	B D A A B C C	9976/()	977	
Decidio Decyl accylate Decyl accylate Determination Decrease	B B A B B	B B A A B B B	B D A A B C D	9976/(X	•	
Decalari Decyl alcohol Decyl acylate Designats Destro Dacetorie alcohol Dacetorie alcohol Daninoesty/amine Dannylamine Ditromoestane Dibromoestane Dibroylamine	B B B B B B	B B A A B B B B	B D A B C C D C	9475/0	•	
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Decidii Decyl alcohol Decyl alcohol Decyl alcohol Decyl alcohol Destriti Dacetore alcohol Damunoethylamine Diarrylamine Dibromoethane Dibromoethane Dibroylamine Dibroyl phihalae	B B B B B B B B B B B B B B B B B B B	B B A A B B B B	B D A B C C D C B	9475/0	•	
Decidii Decyl alcohol Decyl alcohol Decyl alcohol Decyl alcohol Destriti Dacetore alcohol Damunoethylamine Diarrylamine Dibromoethane Dibromoethane Dibroylamine Dibroyl phihalae	B B B B B B B B B B B B B B B B B B B	B B A B B B B B B	B D A A B C C D C C B B	9276/0	•	
Decalair Decyl alcohol Decyl acylair Decyl acylair Desyra Desyra Destro Dacrotre alcohol Duminoetty/amine Dimylamine Ditronylamine Dibunylamine Dibunylamine Dibunylamine Dibunylamine Dibunylamine Dibunylamine Dibunylamine	B B B B B B B B B B B B B B B B B B B	B B A B B B B B B	B D A A B C C D C C B B	9276/0	1	0 0 0 0 0 0 0 0 0
Decalari Decyl alcohol Decyl alcohol Decyl acrylate Demograts Destrin Daminoettylamine Daminoettylamine Dibronoettane Dibronoettane Dibroyl phihalae Dibroyl phihalae Dibroyl schoote	B B B B B C B B C	B B B B B B B B B B B B B B B B B B B	B D A A B C C D C C B B D D	9276/09 0 0 0 0 0 0 0 0 0 0 0 0 0	arri	0 0 0 0 0 0 0 0 0
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Decidalis Decyl alcohol Decyl alcohol Decyl alcohol Decyl alcohol Destriti Destriti Dacetore alcohol Diamylamine Diamylamine Dibunylamine Dichlorocettia D	B B B B B C C C C C C C C C C C C C C C	80 B B B B B B B C C C C C C C C C C C C	B D A B C C D C C B B D C C C Refer	94725/UV	arri	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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the hose.

Due allowance must be made when selecting a hose for use in extreme conditions. 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.

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 possible.

# Inner wire composition of hoses is indicated as such:

 Chemiflex with polypropylenecovered carbon steel.

- Special polypropylene hoses with 316 stainless steel.
- Oilmaster and Fuelmaster with galvanised steel.

# Suitability is indicated by the following categories:

- A Suitable for use at 60°C.
- B Suitable for use at worldwide ambient temperatures.

Discoluryl introne Discoluryl phthalate Discoluryl texture Discoluryl texture Discoluryl texture Discoluryl feature Discolurie Dodecyl beniame Dodecyl beniame	B B B B B B B B B B B B B B B B B B B	B B B B B B B C B B B C	B B A D D A A B D B C D		•	0 0 0 0 x x
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Exhipt ether	В	B	B	•	•	•
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Ethyl hexanoic acid	8	В	D	-	•	×
Ethyl hexyl alcohol	A	A	A		•	ê
Ethylene glycol monophenyl ether	В	В	8	•		
Estryl heavyl acrylate	8	В				
2-Ethyl braylamme	Б	В	C	•		•
Ethyl lodide	(C	C	C	•	•	•
Ethyl isobutyl ether	5	Б	D	•	•	•
Ethyl methacrylae	I S	C	Ç.	•	•	•
2-Estyl-3-propytacroless	C		В	-:	÷	٠
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Early) sulphase	8	B	В	·	•	•
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Earty acids	A	A	D	*		
Fatty alcohols	A	A	A	•		
Ferrous, ferric salts excluding halides	å	. 15	D.			•
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Forms and	A	A	D	×	•	•
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	D B	8	В	÷	÷	•
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Methyl amyldestone	Laury alcohol Lead alloyii Lead alloyii Lead sals (Sammeed) Lapous Lanconene Lanceed oil Labourama oil Labourama oil Majoesum sals (Sammeed) Maleic acid is solution Maleic acid is solution Maleic acid in solution Maleic acid in solution Maleic acid in solution Maleic acid in solution Managemene sals (Saturated) Mentaric chloride (Saturated) Mentaric acid Mentaric ac	Refit A B A B A A B A C C C C C C C C C C C C	A B B B B B B B A B A C C B B	A B 0958 D C B D D D D D D D D D D D D D D D D D	Poly	O O O O O O O O O O O O O O O O O O O	X 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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Methyl amylkesone	Laury laicobol Lead alleyli Lead alleyli Lead satis (Samineed) Liginus Limonente Linseed oil Lisheraming oil Majoreaum satis (Saturiated) Mangamere satis (Saturiated) Menturic chiloride (Saturiated) Menturic chiloride (Saturiated) Mentury Loude Methyl acotta Methylamine Methylamine Methylamine Methylamine Methylamine	Refit A B A B A A B A C C B B C C C C C C C C	A B B B B B B B A C C B B B B C	A B 0958 A B D D D D B B D D D B B B C C C	B B B B B B B B B B B B B B B B B B B	Propyle	
Methyl sen-butyl ether	Laury laicobol Lead alleyli Lead alleyli Lead satis (Samineed) Liginus Limonente Linseed oil Lisheraming oil Majoreaum satis (Saturiated) Mangamere satis (Saturiated) Menturic chiloride (Saturiated) Menturic chiloride (Saturiated) Mentury Loude Methyl acotta Methylamine Methylamine Methylamine Methylamine Methylamine	Refit A B A B A A B A C C B B C C C C C C C C	A B B B B B B B A C C B B B B C	A B 0958 A B D D D D B B D D D B B B C C C	B B B B B B B B B B B B B B B B B B B	Propyle	
Methyl buryl ketone	Laury alcohol Lead alleyii Lead alleyii Lead saley (Sammeed) Lagous Lanconene Lanceed oil Labous ang oil Majoresama oil Majoresama sales (Sammeed) Mentaric chiloride Mentaric chiloride Mentaric chiloride Mentaric chiloride Mentaric chiloride Mentaric allegama Mentaric chiloride Mentaric allegama Mentaric al	Reference A A A A A A A A A A A A A A A A A A A	A B B B B B B B A C C B B B B C B	A B 0958 A B D D D D D D D D D D D D D D D D D D	Poly	O O O O O O O O O O O O O O O O O O O	
Methyl baryl ketone	Laury alcohol Lead alleyis Lead alleyis Lead alleyis Lagrons Larronere Magnessium salts (Saturated) Malex and tri solution Mentyl solution Mentyl solution Mentyl solution Mentyl alcetian Mentyl alcetian Mentyl accetiane Mentyl	8 A A A B A A B B C C B B B B C C B B B B	A B B B B B B B B B B C B B B C B B	A B B O958 D C C B B A C C D B B C C C B B B C C C B B B C C C B B B C C C B B B C C C B B B C C C B B B C C C C B B B C C C C B B B C C C C B B B C C C C B B B C C C C B B B C C C C C B B B B C C C C C B B B C	Poly		
Methyl butyvaldehyde         Refer to 0976/0977           Methyl cellosolve         8         8         8         9           Methyl cellosolve acetate         C         C         C         0           Methyl cellosolve acetate         Refer so 0976/0977         Refer so 0976/0977           Methyl cyclohexane         B         B         0           Methyl cyclohexane         B         B         0           Amethyl persene         C         C         C           Methyl persene         C         C         C           Methyl persene         C         C         D	Laury alcohol Lead alloyli Lead alloyli Lead alloyli Lead alloyli Laprus Laronene Magorenum salis (Sammated) Magorenum salis (Sammated) Maleic acid in solution Menturic chiloride (Saturated) Menturic chiloride (Saturated) Menturic chiloride (Saturated) Menturi alcohol Methyl acid acid Methyl acid acid Methyl acid Methylamilie Me	Refi A B A A B B A A A B B A C C C B B B C C B B C C B C C C B C C C B C C C B C C C B C C C C B C C C C B C C C C B C	A B B B B B B B B B B C B B C B B C	A B B O958 D C C B A A B B D D D D D D D D D D D D D D D	Poly		x 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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Metricyl collosolus acetate         C         D         B         B         C         C         D         C         C         D         C         C         D         C         C         D         C         C         D         C         C         D         C         C         D         C         C         D         C         C         D         C         C         D         C         C         D         C         C         D<	Laury alcobol Lead alloyii Lead alloyii Lead saloyii Lead saloyii Lapous Lanconere Lancend oil Labous areg oil Majoresama oil Majoresama salo (Saturated) Mentralic chiloride (Saturated) Mentralic alcohol Mentryl alcohol Mentryl accolore Mentryl accolore Mentryl accolore Mentryl accolore Mentryl accolore Mentryl amy face	Refi A B A A B B A A A B B A C C C B B B C C B B C C B C C C B C C C B C C C B C C C B C C C C B C C C C B C C C C B C	A B B B B B B B B B B B B B B B B B B B	A B B O958 D D D D D D D D D D D D D D D D D D D	X X X Poly	0 0 0 0 0 0 0 0 0	x 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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Methyl channide         Refer to 042h/0977           Methyl cyanide         B         B         B           Methyl cyclotexane         B         B         B         B           2-methyl persone         C         C         C         C           Methyl persone         C         C         C         D	Laury alcohol Lead alleyle Lead alleyle Lead alleyle Lead alleyle Laprone Laprone Laprone Larsoner Magorenium salis (Sammated) Magorenium salis (Sammated) Magorenium salis (Sammated) Magorenium salis (Sammated) Martylaryleyle in solution Margannerium salis (Sammated) Mentryle chloride (Satiumed) Mentryle (node Mentryle) alcohol Mentryle alcohol Mentryle alcohol Mentryle alcohol Mentryleyleyleyley Mentryleyleyleyley Mentryleyleyleyleyleyleyleyleyleyleyleyleyley	Refe A B B A A B B A A B B A A C C B B B C B B B C C B B B C C B C C B B C C B B C C B C C B C C B C C B C C B C C B C C C B C C C B C C C B C C C B C C C C B C	A B B B B B B B B B A C C B B B C B C B B	A B B D D D D D B B C C D B B C C C C B B C C C C B B C C C C B B C C C C B B C C C C B B C C C C B C C C B C	N		x
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Methyl cyclobexane         B         B         B           2-methyl persene         C         C         C         C           Peritylene byvande         C         C         D         Image: C	Laury alcohol Lead alleyis Lead alleyis Lead alleyis Lagrons Larronere Magnessium salts (Saturated) Magnessium salts (Saturated) Marty acht in sokatron Margomere salts (Saturated) Mentrats chloride (Saturated) Mentrats chloride (Saturated) Mentrats chloride (Saturated) Mentrats chloride (Saturated) Mentrats (Saturated) Mentry alcohol Mentry alcohol Mentry acrystate Methylaronere Methylarony alcohol Mentry arrythare Methylarony alcohol Mentry arrythare Methylarony alcohol Mentry arrythare Methylarony alcohol Mentry arrythare Methylaronere Methyl buryl ketione Methyl buryl ketione Methyl cellosolve	Reft A C C B A A B B A A A B B A A C C C B B B C C B B C C B C C B C C C B C C C C B C	A B U B C B A B B B B B B B B B A B A C C B B B B	A B B D D D D D D D D D D D D D D D D D	X X X X Poly X X X X X X X X X X X X X X X X X X X	Umbyke	X X 0 0 0 0 X 0 0 0 0 0 0 0 0 0 0 0 0 0
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Methylene chlorate C C C • • •	Laury alcohol Lead alleyis Lead alleyis Lead alleyis Lagrons Larronere Magnessium salts (Saturated) Magnessium salts (Saturated) Malic acid in solution Malic acid in solution Malic acid in solution Mentyl solution Mentyl solution Mentyl solution Mentyl solution Methyl buryl ketione Methyl buryl ketione Methyl buryl ketione Methyl collosolve Methyl collosolve Methyl collosolve Methyl collosolve Methyl cylosole Methyl cylosole Methyl cylosole Methyl collosolve Methyl collosolve Methyl collosolve Methyl cylosole Methyl cylosole Methyl cylosole Methyl cylosole	Reft A C C B A A A B B A A A B B B C C B B B B C C B B B B C C B B B B C C B B B B C C B B B B C C B B B B C C B B B B B C C B B B B B C C B B B B B B C C B	A B B B B B B B B B B B B B B B B B B B	A B DODD D D D D D D D D D D D D D D D D	X X X X Poly X X X X X X X X X X X X X X X X X X X	Umb/k	
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- 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 indicated by:

CS for Carbon Steel SS for Stainless Steel CA for Copper Alloy Suitability is indicated by the following categories:

- End fitting material is suitable for the operating conditions applicable to the hose.
- End fitting material is unsuitable or no data.
- For conveyants not listed or service conditions outside the scope of those described in this brochure, please consult the Compoflex Technical Department.

Methyl ethyl herone	-0	-	6	•	
	6	c	C		
Methyl ethylpyridine	-	c	ċ	•	
Methyl formine	0	ċ	č	•	: :
Methyl isobutyl kerorie	č	È			
Methyl methacrylate		-	C	•	
Methyl ntrobename	- 5	В	3	•	
Methyl pentene	11	В	В		
Methyl pyridene	В	В	В	•	
Methylstyrene	D	5	8	•	
Mineral jelly	Α.	A	A:		
Mineral oil	- 5	В	В		
Mineral spirits	В	В	В	•	
Mineral wax:	D	D	D:		
Molesses	A	A	A		
Monoethmounine	A	A	В	•	
	В	10	C:		
Monoethylamine				•	
Monoisopropanolamine	В	B	D	•	
Mononitroberurene:	B	5	3	•	
Morpholne	Б	В	Ç:	•	
Napinha	- 5	8	3		
Naphthe solvets	. 0	E	C		
Naphthalene (in solution)	ň	A	A	•	
Naphthalene molten:	D	D	D	8:	H. X
Nechesane	8	В	В	•	
		D	D	×	
Nickel chloride (Saturated)	Ā				
Nickel skits, excluding chloride (Saturated)	Α	В	D.	160	• ×
Neric head (<10%)	A	٨	D	(8)	0 ×
Nanc acid 00-60%	_5_	E	D	181	• x
Nanc and (>60%)	Refer	0 (997)	50977	×	• ×
Noobetage	Б	8	3		
O-natophenol (sols)	ñ	A	D		
Nanpropane	8	В	8		
Nantoluene	В	В	В	•	
Nonere	B	8	B	ě	
		- 0			
Nonyl alcohol	8	В	В	•	
Nonyiphenol	B	В		•	
Octane	В	B	В		
Octanol	B	8	В	•	
Octylacetae		TC.	C	•	
Octylacrylate	В	В	В	•	
Olec and	B	ō	D.	(K.	0 ×
			10477	×	• ×
Oleum					
Oxale acit (< 90%)	В	8	D	×	
Paim of	5	В	B		
Pacaldehyde.	C	C	C		
Pentachlomethane	C	0	C		<ul><li>x</li></ul>
1.3-persadiene	C	.0	C		
Persair	8	В	B		
Pernanci	A	Δ	Δ		
Pentanone:	В	В	В.		
	8	В	В		
Penene					
Pentilons; and I < 50%)	В	D	D	×	0 1
Partilionettylese	C	C	C	- DE	
Pemilinim	Ă	A	A	•	
Phenol	ā	-8	В.	(4)	
Phenoxyerhanol		5	C		
Phenylhydramie	5	E	D:	- X:	<b>9</b> ×
Phosphoric and (<95%)	A	Α	D	181	<ul><li>×</li></ul>
	A C	D	D	Polys	
Phosphorus oxychioride		B	Ď		
Phosphorus permoode	ā			*	
Phosphorus trichlonde	В	D	D	*	. x
Phosphorus	D	D	D	18	* *
Phthalic and I < 50%	В	В	D	A.	<ul><li>×</li></ul>
Phthalic anhydride	D	D	D	160	× ×
Pieric acid (94)	5	5	D	.30	. x
Priene	В	В	8		
Pine of	8	В	B	•	
	В	В	В		
Plasticisers most commercial				•	
Polyethylene glycol	5	В	5		
			35	•	
Polypropylene glycol	B	B		•	
Polymethylene polyphesyl socyamie	3	В	35		<ul><li>×</li></ul>
	B	В	B D	186	
Purposethylene pulyphenyl socyamie Promisen path excluding baides (Saturated)	B	В	35	/ 80	
Polymethylene polyphenyl socyamite Polymeny salts excluding balides (Saturated) Polysesum halides	3	В	D D		
Polymethylene polyphenyl socyanate Poussum salas excluding balides (Saturated) Poussum halides Propyl sicohol	A A	B B D	D D		: :
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Sodium chlonde (Saturated)	A	В	D)	×	
Sodium chromater	8	В	B		
Sodam bydrosulphide	ā	В	-D		
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Code in the code of the code	A	A	7	•	
South Information Southern		-	C D		
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Supranciacid (>85%)	C	C	D		• ×
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Inchorethase	1	C	C		
Thickloroethylene	C	(C	C		
Thirkingermeane	1.6	C			
Tricresy phosphile Tridecand	3	В	В	•	
Hantski handrine	8	В	В	•	
stratecants)			- 0		
Therbunolamine	8	В	D.	•	
Thefrylanize Thefryllanize	8	В	D D		
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	Hose	End Fittings		
Conveyant	1 2 3	CS SS CA		
Busane liquid	Refer to 0940.			
Fluorityited refrigerates	Refer to 0940			
Freoria	Refer to 0940			
Ammonie	Refer to 0940			
Acetaklehyde	Refer to (940)			
Butatiene	Refer to 0940			
Butaite/propage mixes	Refer to 0940			
Botane	Seler to 0940			
Burylene	Refer to 0940			
Dmethylamine	Refer to 0940			
Ethylamine	Refer to 0940			
Ethyl chloride	Refer to 0940			
Methylacetylene	Refer to 0940			
Methyl bromide	Refer to 0940			
Propiete	Refer to 0940			
Propodiene	Refer to 0940			
Propylene	Refer to 0940			
Veryl chiloride	Refer to 0940			
Refrigerant gases	Refer to 0940			



# MAINTAINING THE VITAL LINK

### THE INSPECTION, CLEANING AND TESTING OF COMPOSITE HOSES

Compoflex hoses are designed to ensure the highest levels of reliability, durability and safety but, to maintain these levels. regular inspection, cleaning and testing are essential.

### INSPECTION

Worn or damaged hoses may be dangerous, so they should be visually checked before each operation and given a more rigorous examination at least every six months.

The inspection should pay attention to:

- ☐ Dents or kinks.
- Displacement of inner and outer reinforcing wires from their normal pitch.
- ☐ Corrosion or abrasion of the outer wire
- Displacement of end fittings or signs of leakage from the ends
- Other abnormal features including wear or damage to end fittings.
- Chemical attack, deterioration or physical damage to outer cover and carcass generally.

Hoses with any significant defects of the above type should be retired from service. Moderate abrasion of the outer cover is acceptable if the reinforcing fabrics below the cover are undamaged.

### CLEANING

Hoses should be cleaned after use and always before testing or prolonged storage. The most appropriate method will depend on the hose use and its location.

Flushing out is often sufficient, with fluids such as clean water, hot water, detergents, common solvents at ambient temperatures and sea-water. If sea-water is used, it must be thoroughly drained afterwards to minimise risk of corrosion on carbon steel end fittings or galvanised steel internal wires.

It is essential that any strong acid conveyants are thoroughly drained prior to cleaning, to avoid exothermic reaction. It is also important to fully drain the hose afterwards to ensure puddles of cleaning fluid are not left within the assembly. This avoids any possibility of chemical reaction when the hose re-enters service.

Loose steam may be used but the hose must be open-ended and its maximum working temperature must not be exceeded, since damage to the fabric or film may occur. Compressed air may be used, but again the hose must be open-ended.

During cleaning the hose must be electrically earthed to avoid static charge build-up, especially near flammable areas.

Pigging must not be used under any circumstances.

### TESTING

At least annually, hoses should be hydraulically tested as follows:

- □ Drain and thoroughly clean hose and check end-to-end electrical continuity.
- ☐ Inspect visually Hoses failing visual inspection should not be tested.
- Lay hose straight out on supports or roller bed that allow free movement under pressure.
- Blank off ends and fill the hose completely with water.
   Ensure trapped air is released by tilting slightly.
- ☐ Pressurise the assembly to
  1.5 times the maximum rated
  working pressure and hold
  at this pressure for 10
  minutes while examining for
  leaks. Also test electrical\*
  continuity between ends to
  ensure that it is the same as
  initially checked.
- ☐ Release pressure and drain
- On completion of the test, the hose should again be tested for electrical continuity.

It should be noted that with thermoplastic composite hose, elongation under pressure can be high relative to rubber. This is a feature of composite hoses and unlike rubber hoses, it cannot be taken as an indication of failure or used to assess the condition of the hose reinforcements.

### ELECTRICAL CONTINUITY TESTS

To prevent the accumulation of static charge generated in use, all metal parts of the assembly have been electrically bonded during manufacture. At intervals not exceeding six months, the following test should be carried out:

- □ Lay hose flat on the ground.
- Check that it is electrically continuous end-to-end with a simple battery and bulb test or an ohm meter.

Hoses not having electrically continuity should be retired from service.

### REPAIRS

Department.

Dependent on the overall condition, it may be possible to repair hoses which have been damaged in service. Please consult Compoflex's Technical Department or your authorised Compoflex distributor. The repair of polypropylene hoses requires specialist knowledge and should only be undertaken by trained personnel. Full certification of what the hose has conveyed should be provided along with de-contamination certification before any hose is repaired. Specialist advice on all aspects of hose inspection, testing and handling is freely available from Compoflex's Technical



MAINTAINING THE VITAL LINK

### COMPOFLEX HOSE HANDLING GUIDE

Composlex hoses are noted for their durability but their life can be determined by how they are used in operation. To

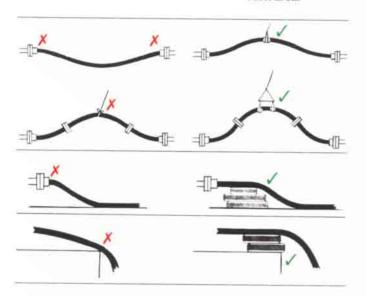
### ATWAYS

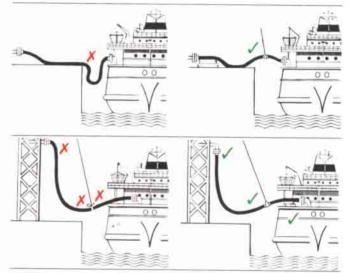
- Support hose at appropriate points with slings.
- Support hose near manifold connections.
- Protect hose against sharp edges such as jetty edges and a ship's guard rail.
- Store hose in a straight line raised off the ground, preferably in a cool, dark area.

ensure maximum service life, follow these simple guidelines:

### NEVER

- Use hose unsupported.
- Support hose with a single rope.
- Allow hose to droop between ship and jetty.
- Over bend hose.





## TECHNICAL ADVICE AND SPECIAL APPLICATIONS

United Flexible's Technical
Department can offer expert
advice on the selection of hose for
particular applications. In addition,
special versions of all Compoflex
hoses can be produced to meet
individual customer requirements.





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