

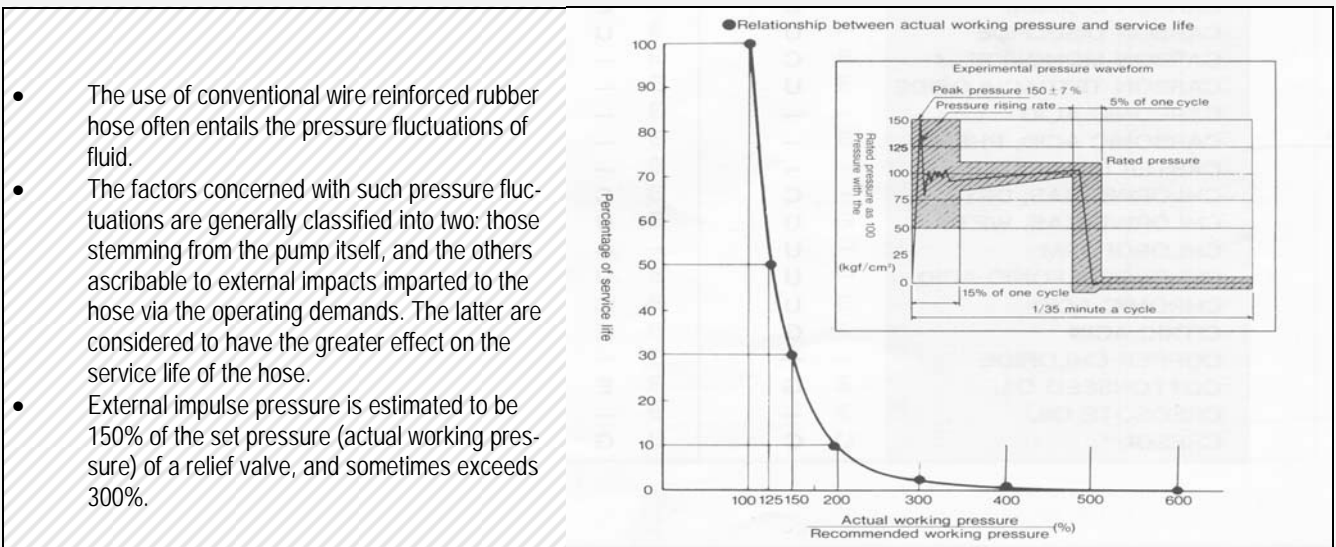
# WARNING

## SAFETY PRECAUTIONS FOR THE USE OF PIRTEK® HOSE ASSEMBLIES













Your Personal Safety may directly or indirectly be compromised if the hose assembly is abused.

By following the **INSTRUCTIONS** below, the more common abuses of hose and hose assemblies can be avoided.

1. **INSPECT** the hose assembly before each use.
2. **REPLACE** the hose assembly immediately if:
  - A. The cover appears abnormal
  - B. You believe it may be abnormal
  - C. There is any fluid leakage
  - D. The fittings are damaged
  - E. The hose is damaged
  - F. Reinforcement is visible through the cover
3. **DO NOT EXCEED** the maximum working pressure of the hose.
4. **DO NOT KINK** the hose assembly.
5. **DO NOT BEND** beyond the specified minimum bend radius of the hose.
6. **DO NOT EXPOSE** to temperatures beyond the published maximums for the hose or fluid being conveyed.
7. **DO NOT USE AS A STRENGTH MEMBER** for pulling or lifting equipment. Use support cables for vertical installations.
8. **USE ONLY WITH COMPATIBLE FLUIDS** as outlined in the Chemical Compatibility Charts or as specifically approved in writing by Pirtek Fluid Systems.
3. Use only Pirtek **HOSE AND FITTINGS COMBINATIONS** as designated in their current Crimp Charts.
4. Use only Pirtek **PROCEDURES** and **ASSEMBLY EQUIPMENT** as published and maintained in their M.A.P.S. documentation.



# PIRTEK RUBBER HOSES OVERVIEW

Product Code	Construction	Normal Usage	Features Benefits
IROFSD 100R4		Low pressure suction and delivery hose for fuels having an aromatic content up to 40%, and mineral oils. Suitable for loading and unloading of tank trucks, refineries and maintenance shops.	Seamless synthetic smooth black rubber, oil resistant inner tube. Two braids of textile fibre reinforcement with an embedded metal spiral. Antistatic, synthetic rubber cover with cloth impression.
MPH		Low pressure hose for hydraulic fluids such as mineral and vegetable oils, aqueous emulsions, water, air and inert gases.	2 or 4 spirals of textile reinforcement. Synthetic rubber inner and outer. Abrasion and weather resistant.
IFRAS		Designed for arduous air / water applications in underground coal mining.	Black neoprene rubber liner and cover. Orange spiral lay line on the cover. 2 or 4 spirals of synthetic reinforcement. Fire Resistant, Anti-Static.
100R5 R5HT		Medium pressure hose for hydraulic fluids such as mineral and vegetable oils, aqueous emulsions, water, air and inert gases. Common on American equipment (air brakes, transmissions)	Internal diameters match the inside diameter of copper tube to yield an unrestricted flow path. Hence internal diameters differ from conventional dash sizes. Blue covered HT variant has a higher temperature capability.
JW250 (A) JW400 (A)		Extremely flexible, high pressure compact hose for pressure cleaners. Suitable for conducting water and detergents in aqueous solution.	Hoses differ in pressure capability. 250 bar has 1 wire braid 400 bar has 2 wire braid The 'A' Suffix refers to the more abrasion resistant version
R1AT		Medium pressure hose for hydraulic fluids such as mineral and vegetable oils, aqueous emulsions and water.	Synthetic rubber oil resistant liner and abrasion resistant cover. 1 braid of high tensile steel wire.
R2AT		High pressure hose for hydraulic fluids such as mineral and vegetable oils, aqueous emulsions and water.	Synthetic rubber oil resistant liner and abrasion resistant cover. 2 braids of high tensile steel wire.
C21 C25		Isobaric (constant working pressure for all sizes) range of hoses exclusive to Pirtek. Simplifies hose selection in circuits of known working pressure.	Class 21 hoses suit 210 bar working pressure. Class 25 hoses suit 250 bar working pressure.
C35 C42		Isobaric (constant working pressure for all sizes) range of hoses exclusive to Pirtek. Simplify hose selection in circuits of known working pressure.	Class 35 hoses suit 350 bar working pressure. Class 42 hoses suit 420 bar working pressure.
JBF		Large bore medium pressure hose for hydraulic fluids such as mineral and vegetable oils, aqueous emulsions and water.	4 spiral construction. Prolonged usage with water or water based fluids will allow wire corrosion as a result of diffusion through the inner liner. Light yellow lay line.
XT3 XT5		High pressure multi-spiral hose for hydraulic fluids such as glycol, mineral oils, fuels, hydrocarbons etc. Provide flexibility and high temperature resistance.	Compatible with Caterpillar® reusable fittings (genuine Caterpillar manufactured hose). XT3 has a grey cover, XT5 a rust red cover.
WB900 WB1100		Very high constant pressure hose for water scaling systems. Suitable for passage of water and aqueous solutions.	2.5 : 1 safety factor. Do not use in hydraulic systems.

# PIRTEK THERMOPLASTIC HOSES

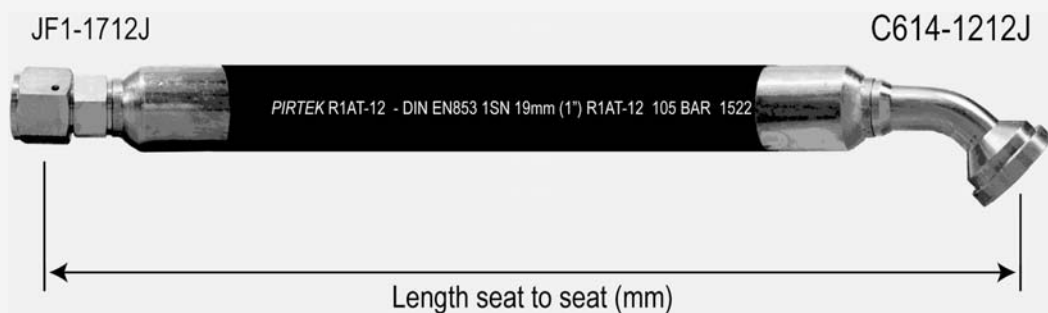
Product Code	Construction	Normal Usage	Features Benefits
30CT 3360X2		Flexible even in cold temperatures. Small OD and good flexibility over sheaves allows use over wide range of forklift sheaves, including freezer applications.	Constant 207 bar working pressure for all sizes. Perforated cover for gaseous applications. Similar to 3130 in other respects. Available in twin- and tri-line configurations. Impulse absorbing.
3130		Economical general purpose hose for medium pressures. High pressure gas and chemical transfer. Machine tools Marine applications	Textile reinforcement provides light weight and corrosion resistance. Wide ranging chemical compatibility. Allows field assembly where access is difficult. Perforated cover for gaseous transfer.
3420 3490		Airless paint spray supply lines. Wireless design dissipates static electricity. Resistant to paint solvents.	Smooth seamless nylon, electrically conductive inner tube. Polymeric abrasion resistant cover. Light handling. 3420 Med Pressure (not shown), 3490 High Pressure
34PW		Pure water transfer, deionised water, distilled water, potable water, food products. Prevents moisture transmission, extraction of contaminants.	Polyolefin inner tube, free of plasticisers. NSF and PDA approved materials. Non perforated blue cover.
3730		Hydraulic tools, lubrication systems, mobile hydraulics, agricultural equipment.	Available in single and twin line configurations. The most flexible thermoplastic hose available.
37AL		General hydraulic systems that may contact high voltage sources. Aerial equipment. Mobile hydraulics. Rescue apparatus and tools.	Non conductive hose construction. Meets conductivity requirements for electrical work. Constant working pressure for all sizes. Orange, non perforated cover.
3800		General hydraulic systems High pressure gas and chemical transfer. Machine tools. Mobile equipment Marine steering	Kevlar reinforcement allows compact dimensions, but makes the hose unsuited to continuous flexing such as sheaves. Very low volumetric expansion and elongation.
3833		High pressure gas transfer. Automotive, LPG powered forklifts, and natural gas fuel hose. LPG, natural and town gas.	SAE 100 R7 AS1869 Class D Approval No. 4805
3840 3E80		General hydraulic systems that may contact high voltage sources. Aerial equipment. Mobile hydraulics. Rescue apparatus and tools.	Similar to 37AL but higher working pressures. 3840 uses Kevlar reinforcement (see 3800), whereas 3E80 uses conventional 100 R8 construction. Orange non perforated covers.
3R80		General hydraulic systems, hydraulic tools, mobile equipment. High pressure pneumatic systems. Mobile hydraulics.	As for 3130 hose except higher working pressures. Ideal in high impulse and flexing situations. Able to absorb and reduce system shock loads.
3V10 3VEO		High pressure hydraulic tools Rescue equipment and tools High pressure test equipment	Kevlar reinforcement for strength. Available only as complete assemblies with safety tags attached. 3VEO is a non conductive version for use in high voltage environments.
STH		Medium pressure and laundry equipment. Plastic moulding presses. Steam and air compressor discharge. Not suited to steam and cold water cycling.	Teflon liner and SS braid allow high temperature and chemical capability. In compressed air transfer, may suffer liner perforation due to static electricity. (Contact Pirtek for advice).

Hose Type	Working Pressure (bar)														Temperature °C	SAE/ISO Standard	EN	Page				
	dia. (ins.)	3/16	1/4	5/16	3/8	1/2	5/8	3/4	1	1 1/4	1 1/2	2	2 1/2	3					4			
	size	-03	-04	-05	-06	-08	-10	-12	-16	-20	-24	-32	-40	-48					-64			
DN	5	6	8	10	12	16	19	25	31	38	50	63	75	100								
IROFSD								10	10	10	10	10	10	10					-20°/+70°	Nil		07
100R4								21	17	14	10	7							-40°/+100°	100 R4		08
MPH			35	35	35	35	35	35	35										-40°/+100°	Nil		09
IFRAS						17		17	17	17	17	17	17	17					-32°/+93°	Nil		10
R6	34	28	28	28	28	24	21	21											-40°/+100°	100 R6		11
100R3		86		78	69	60	52	39											-40°/+100°	100 R3		12
100R5		205	205	155	140	120	105	55	45	34	24	24							-40°/+100°	100 R5		13
R5HT		207	207	155	138	121	103	55	43	34	24								-40°/+135°	100 R5		14
JW250 (A)		250		250															-40°/+155°	Nil		15
JW400 (A)				400															-40°/+155°	Nil		16
R1AT	250	225	215	180	160	130	105	88	63	50	40								-40°/+100°	100 R1	853 1 SN	17
R2AT	415	400	350	330	275	250	215	165	125	90	80	69	na						-40°/+100°	100 R2	853 2SN	18
R2ATHT		400	350	330	275	250	215	165	125	90	80								-40°/+135°	100 R2	853 2SN	19
C21												210							-40°/+120°	Pirtek Class 21		20
C25						250	250	250	250	250									-40°/+120°	Pirtek Class 25		21
C35			380	350	350	350	350	350	350	350	350								-40°/+120°	Pirtek Class 35		22
C42		420		420	420		420	420	420	420	420								-40°/+120°	Pirtek Class 42		23
JBF													140						-40°/+100°	Nil		24
XT3				275	275	275	275	275	205	170	170								-40°/+120°	100 R12		25
XT5							350	350	350	350	350								-40°/+120°	100 R13		26
30CT		207	207	207	207	207													-54°/+94°	100R18		32
3130	207	207	172	155	138		86	69											-40°/+100°	100 R7	855 Typ 7	34
3360X2				207															-40°/+100°	100R17		35
3420	228	228		228															-40°/+66°	Nil		36
3490		345		345															-40°/+66°	Nil		37
34PW		190		155	138		104	104											-23°/+66°	MIL 767A		38
3730	207																		-40°/+100°	SAE R7		39
37AL		207		207	207														-54°/+100°	SAE J517		40
3800	345	345		276	241														-40°/+100°	100 R8		41
3833			26	26															-40°/+100°			42
3840		345		276	241														-40°/+100°	SAE J517		43
3E80		345		276	241														-40°/+100°	SAE J517		44
3R80	345	345		276	241		155	138											-40°/+100°	100 R8		45
3V10	689	689		551															-54°/+94°	Nil		46
3VEO		689		551															-40°/+66°	ISO 7751		47
STH	103	103	103	103	55	55	55	55											-55°/+240°	100 R14		48
WB900								900											-40°/+80°	Nil		27
WB1100		1100		1100	1100														-40°/+80°	Nil		28

# ORDERING PIRTEK ASSEMBLIES

Should you wish to describe a Pirtek hose assembly in an abbreviated form, please use the following steps and format. A forward slash is used to separate each field

Step	Description	Catalogue Reference
1	Choose the type of hose best suited to the requirement	Use pages B2, B3, and B4 and then study the detailed specifications of the chosen candidates. Consult the chemical compatibility chart if needed (commences page B 51)
2	Confirm that the required flow rate is within the recommended guidelines for the diameter of hose selected	Use the flow rate and pressure drop charts (pages A07 and A08) or a flow nomograph to determine the optimum diameter of hose. Don't forget to confirm that the minimum bend radius of the hose will not be violated in the intended application
3	Determine the length required (in mm from sealing point to sealing point)	Consult pages A05 and A06 when making decisions on the length and routing required
4	If hose protection is needed, insert it at this point. Otherwise leave it blank	Consult Catalogue Section G
5	Determine the ends required, and write their Product Codes concurrently with a forward slash to separate them. If both ends are the same, write the Product Code once only	Fittings Catalogue pages C1 - C4 will assist. Technical Section A includes thread recognition tables. Once the required type is known, consult the detailed fitting specification using the Fast Find Index pages C5-C7
6	If 2 elbows are being used, make a note of the angle of orientation of the fittings, and write the number at the very end of the description. If the angle will be zero, write '0' anyway to confirm that it has not been overlooked	Consult page A05 for allowable tolerances and the procedure for determining the angle of orientation



In the above example, a 1200 mm long assembly would be designated:

**R1AT-12 / 1200 / JF1-1712J / C614-1212J**

If spiral guard SSG-025 were fitted over the full length, the designation would change to:

**R1AT-12 / 1200 / SSG-025 / JF1-1712J / C614-1212J**

If both ends were fitted with the 45° flanged elbow set in alignment, the designation would appear:

**R1AT-12 / 1200 / C614-1212J / 0**



This page is part of a complete catalogue containing technical and safety data.  
All data must be reviewed when selecting a product.  
Pirtek reserve the right to change technical specifications without notice.

# IROFSD OIL RETURN HOSE



### Construction

**Inner Tube:** Black smooth NBR compound

**Reinforcement:** high strength synthetic cord plus embedded steel helix wire

**Cover:** black, smooth (wrapped finish) SBR weather resistant rubber compound

### Applications

Light weight hardwall suction and delivery hose for fuels having an aromatic content up to 30%, and mineral oils. Suitable in hydraulic systems and for loading and unloading of tank trucks, refineries and maintenance shops.

**Temperature Range:**  
-20°C up to +70°C

**Comment:**  
Lay line example may not be a true indication of current status. Refer Pirtek for current information.

### Reference Specifications

**Hose Tails:**  
Pirtek 'L' Series, Kamloks

**Coil Lengths:**  
Max length 120 mtr to 4 inch  
60 mtr to 6 inch

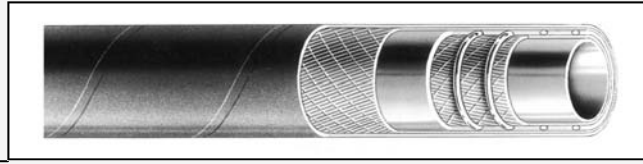
**Limitations:**  
Not suitable for ester oils

Lay line example: Black transparent text on yellow background. **Note comment**

PIRTEK OIL FUEL S/D IROFSD 10 BAR (150psi) WORK.PRESS.

Product Code	Nominal ID		ID	OD	Pressure bar			Min bend radius	Weight
	mm	in			mm	mm	working		
IROFSD-019	19	3/4	19.05	30	10	30	0.9	80	0.59
IROFSD-025	25	1	25.40	35	10	30	0.9	105	0.79
IROFSD-032	32	1 1/4	31.75	43	10	30	0.9	135	1.03
IROFSD-038	38	1 1/2	38.10	49.5	10	30	0.9	165	1.33
IROFSD-045	45	1 3/4	45.24	57	10	30	0.9	205	1.57
IROFSD-051	51	2	50.80	63	10	30	0.9	230	1.83
IROFSD-063	63	2 1/2	63.50	78	10	30	0.9	290	2.78
IROFSD-076	76	3	76.20	89	10	30	0.9	360	2.92
IROFSD-102	102	4	101.60	118	10	30	0.9	515	4.83

## 100 R4

**Construction**

**Inner Tube:** Seamless synthetic rubber, oil resistant

**Reinforcement:** Two braids of textile fibre with an anti-collapse steel spiral.

**Cover:** Black synthetic rubber resistant to abrasion, oils, ozone and weathering

**Applications**

Low pressure suction and delivery hose for hydraulic fluids such as mineral and vegetable oils, aqueous emulsions, water, air and inert gases.

**Temperature Range:**  
-40°C up to +100°C (125° intermittent)

**Reference Specifications**

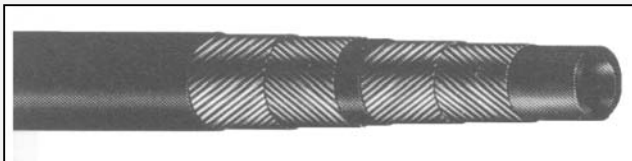
SAE 100 R4

**Hose Tails:** Pirtek 'L' Series

Product Code	Nominal ID		ID	OD	Pressure bar		Min bend radius mm	Weight Kg/m
	DN	in	mm	mm	work- ing	min burst		
100R4-12 †	19	3/4	19.2	32.0	21	84	125	0.75
100R4-16 †	25	1	25.4	38.0	17	68	152	0.95
100R4-20 †	31	1 1/4	31.8	43.0	14	55	200	1.00
100R4-24 †	38	1 1/2	38.1	50.0	10	41	250	1.30
100R4-32 †	50	2	50.8	65.0	7	28	305	2.00

† Non-standard product. Available to special order

# MPH



## Construction

**Inner Tube:** Seamless synthetic rubber, oil resistant.

**Reinforcement:** Two or four spirals of textile fibre.

**Cover:** Black synthetic rubber resistant to abrasion, oils, ozone and weathering

## Applications

Low pressure hose for hydraulic fluids such as mineral and vegetable oils, aqueous emulsions, water, air and inert gases. Superior impulse life compared to SAE standards of 100,000 and 200,000 cycles for R1AT and R2AT hoses respectively.

### Temperature Range:

-40°C up to +100°C  
-40°C up to 70°C ambient

### Approvals:

Still pending. Lay line example may not be a true indication of current status. Refer Pirtek for current information.

## Reference Specifications

Exceeds SAE J 517 (100 R6)  
Exceeds EN 854 R6  
JIS B 8360

### Impulse Testing:

400 000 cycles of JIS waveform @ 133% of working pressure (hose only) all sizes

### Hose Tails:

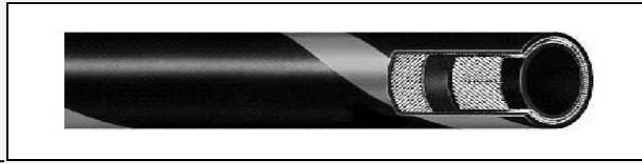
Pirtek 'P' Series all sizes  
Pirtek 'T' Series option on 3/8, 1/2, 5/8 sizes

Lay line example: Green text on black hose. **Note Approvals above.**

PIRTEK MULT MPH-12 (3/4") 35BAR W.P. (500 PSI)

Product Code	Nominal ID		Reinforcement	OD mm	Pressure bar		Min bend radius mm	Weight Kg/m
	mm	in			work- ing	min burst		
MPH-04	6.3	1/4	4 fabric spiral	14.0	35	140	55	0.15
MPH-05	8.0	5/16	4 fabric spiral	na	35	140	na	na
MPH-06	9.5	3/8	4 fabric spiral	17.4	35	140	65	0.21
MPH-08	12.7	1/2	4 fabric spiral	21.3	35	140	90	0.28
MPH-10	15.9	5/8	2 fabric spiral	23.5	35	140	110	0.30
MPH-12	19.0	3/4	4 fabric spiral	31.4	35	140	135	0.59
MPH-16	25.4	1	4 fabric spiral	37.5	35	140	170	0.74

## IFRAS

**Construction**

**Inner Tube:** Black neoprene rubber

**Reinforcement:** 2 or 4 spiral plies of synthetic fabric

**Cover:** Black neoprene rubber with orange spiral stripe

**Applications**

Designed for arduous air / water applications in underground coal mining.

**Temperature Range:**  
-32°C up to +93°C

**Approvals:**  
AS2660, incorporating AS1180.13A and AS1180.10B

Lay line example may not be a true indication of current status. Refer Pirtek for current information.

**Reference Specifications**

Meets or exceeds AS2660 Class A and B

**Hose Tails:**

Industrial fittings / FFI Ferrules  
High pressure 4 bolt air fittings

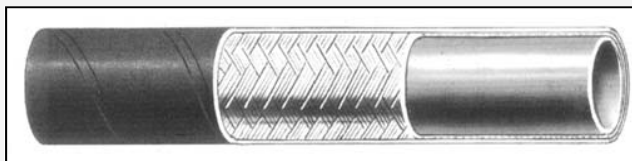
Lay line example: Black text on orange spiral lay line. **Note Approvals above.**

*PIRTEK Air/WaterFRAS AS 2660 Class B 1.75 MPa WP*

Product Code	Nominal ID		Reinforcement	OD mm	Pressure bar		Min bend radius mm	Weight Kg/m
	mm	in			work- ing	min burst		
IFRAS-012 †	12	1/2	2 spiral plies	22.6	17.5	70		0.37
IFRAS-019 †	19	3/4	2 spiral plies	28.6	17.5	70		0.51
IFRAS-025 †	25	1	2 spiral plies	37.3	17.5	70		0.84
IFRAS-032 †	32	1 1/4	2 spiral plies	44.0	17.5	70		1.01
IFRAS-038 †	38	1 1/2	2 spiral plies	50.8	17.5	70		1.19
IFRAS-050	50	2	2 spiral plies	63.9	17.5	70		1.56
IFRAS-063	63	2 1/2	4 spiral plies	79.6	17.5	70		2.31
IFRAS-075	75	3	4 spiral plies	92.1	17.5	70		2.70

† Non-standard product. Available to special order

# R6



## Construction

**Inner Tube:** Seamless synthetic rubber, oil resistant.

**Reinforcement:** One braid of textile fibre.

**Cover:** Black synthetic rubber resistant to abrasion, oils, ozone and weathering

## Applications

Low pressure hose for hydraulic fluids such as mineral and vegetable oils, aqueous emulsions, water, air and inert gases.

**Temperature Range:**  
-40°C up to +100°C (125° intermittent)

**Approvals:**

Still pending.

## Reference Specifications

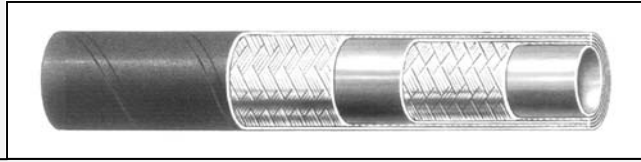
SAE J 517 (100 R6)  
EN 854 R6

**Hose Tails:** Pirtek 'P' Series

Product Code	Nominal ID		ID mm	OD mm	Pressure bar		Min bend radius mm	Weight Kg/m
	mm	in			work- ing	min burst		
R6-03 †	5	3/16	4.9	10.9	34	138	50	0.10
R6-04 †	6.5	1/4	6.5	12.6	28	112	65	0.13
R6-05 †	8	5/16	8.0	14.3	28	112	75	0.15
R6-06 †	9.5	3/8	9.7	15.8	28	112	75	0.18
R6-08 †	13	1/2	13.0	19.8	28	112	100	0.23
R6-10 †	16	5/8	16.2	23.0	24	97	125	0.28
R6-12 †	19	3/4	19.3	26.5	21	84	150	0.36
R6-16 †	25	1	26.3	32.5	21	84	165	0.45

† Non-standard product. Available to special order

## 100 R3

**Construction**

**Inner Tube:** Seamless synthetic rubber, oil resistant

**Reinforcement:** Two braids of textile fibre.

**Cover:** Black synthetic rubber resistant to abrasion, oils, ozone and weathering

**Applications**

Low to medium pressure hose for hydraulic fluids such as mineral and vegetable oils, aqueous emulsions, water, air and inert gases.

**Temperature Range:**  
-40°C up to +100°C (125° intermittent)

**Approvals:**

Still pending.

**Reference Specifications**

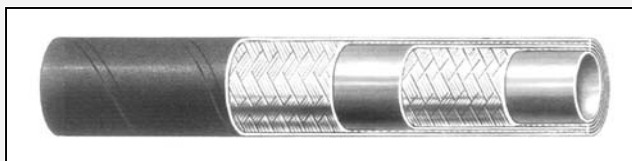
SAE J 517 (100 R3)  
EN 854 R3

**Hose Tails:** Consult Pirtek

Product Code	Nominal ID		ID mm	OD mm	Pressure bar		Min bend radius mm	Weight Kg/m
	mm	in	mm	mm	work- ing	min burst		
100R3-04 †	6.5	1/4	6.6	14.4	86	345	75	0.19
100R3-06 †	9.5	3/8	9.7	19.0	78	312	100	0.30
100R3-08 †	13	1/2	13.0	23.8	69	276	125	0.42
100R3-10 †	16	5/8	16.2	27.0	60	240	140	0.50
100R3-12 †	19	3/4	19.2	31.7	52	208	150	0.65
100R3-16 †	25	1	26.0	38.0	39	156	200	0.82

† Non-standard product. Available to special order

# 100 R5



## Construction

**Inner Tube:** Seamless synthetic rubber, oil resistant.

**Reinforcement:** One textile braid and one braid of high tensile steel wire.

**Cover:** Black synthetic rubber with polyester textile outer braid resistant to abrasion, oils, ozone and weathering.

## Applications

Low to medium pressure hose for hydraulic fluids such as mineral and vegetable oils, aqueous emulsions, water, air and inert gases.

**Temperature Range:**  
-40°C up to +100°C (125°C intermittent) except air (not to exceed 71°C)

### Approvals:

Still pending.

## Reference Specifications

SAE J 517 (100 R5)

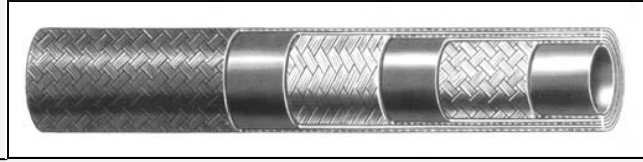
**Impulse Testing:**  
See Table below for Impulse Test criteria (hose only)

**Hose Tails:** Pirtek 'A' Series

Product Code	Nominal ID		ID mm	OD mm	Pressure bar		Min bend radius mm	Weight Kg/m	Test Impulses
	mm	in			work- ing	min burst			
100R5-04	5	3/16	5.1	13.2	205	820	75	0.24	150 000
100R5-05	6	1/4	6.8	14.8	205	820	85	0.28	150 000
100R5-06	8	5/16	8.3	17.1	155	620	100	0.35	150 000
100R5-08	10	13/32	10.7	19.5	140	560	115	0.38	150 000
100R5-10	13	1/2	13.2	23.4	120	480	140	0.51	150 000
100R5-12	16	5/8	16.4	27.4	105	420	165	0.68	150 000
100R5-16	22	7/8	22.8	31.4	55	220	185	0.70	150 000
100R5-20	29	1 1/8	29.2	38.1	45	180	230	0.80	100 000
100R5-24	35	1 3/8	35.5	44.4	34	138	267	1.05	100 000
100R5-32	46	1 13/16	46.6	56.2	24	97	337	1.30	100 000
100R5-40 †	60	2 3/8	61.1	73.5	24	97	610	1.92	-

† Non-standard product. Available to special order

# R5HT



## Construction

**Inner Tube:** Seamless synthetic rubber, oil resistant.

**Reinforcement:** One textile braid and one braid of high tensile steel wire.

**Cover:** Black synthetic rubber with blue polyester textile outer braid resistant to abrasion, oils, ozone and weathering.

## Applications

Low to medium pressures hose that will handle high temperature hydraulic fluids such as mineral and vegetable oils, aqueous emulsions, water, air and inert gases.

**Temperature Range:**  
-40°C up to +135°C (150° intermittent), except air (not to exceed 121°C).

**Approvals:**  
Still pending. Lay line example may not be a true indication of current status. Refer Pirtek for current information.

## Reference Specifications

Exceeds SAE J 517 (100 R5)

**Impulse Testing:**  
See Table below for Impulse Test criteria (hose only)

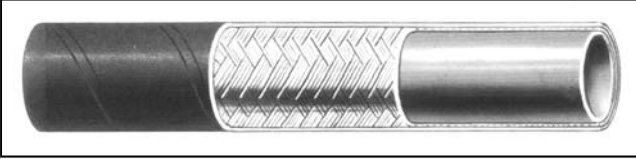
**Hose Tails:** Pirtek 'A' Series

Lay line example: Red text on blue lay line. Note Approvals above.

**PIRTEK** HI-TEMP 7.9MM (5/16") R5HT-06 155 BAR (2,250PSI) WORK. PRESS: 150°C./SAE J1402 TYPE AII 2Q04 BATCH 0037

Product Code	Nominal ID		ID mm	OD mm	Pressure bar		Min bend radius mm	Weight Kg/m	Test Im-pulses
	mm	in			working	min burst			
R5HT-04	5	3/16	5.1	13.2	207	827	76	0.22	150 000
R5HT-05	6	1/4	6.8	14.8	207	827	86	0.26	150 000
R5HT-06	8	5/16	8.3	17.1	155	620	102	0.31	150 000
R5HT-08	10	13/32	10.7	19.5	138	552	117	0.36	150 000
R5HT-10	13	1/2	13.2	23.4	121	483	140	0.53	150 000
R5HT-12	16	5/8	16.4	27.4	103	414	165	0.65	150 000
R5HT-16	22	7/8	22.8	31.4	55	221	187	0.70	150 000
R5HT-20	29	1 1/8	29.2	38.1	43	172	229	0.90	100 000
R5HT-24	35	1 3/8	35.5	44.4	34	138	267	1.00	100 000
R5HT-32	46	1 13/16	46.6	56.2	24	97	337	1.48	100 000

# JW250 JW250A



### Construction

**Inner Tube:** Synthetic rubber, resistant to water and detergents in aqueous solution.

**Reinforcement:** One braid of high tensile steel wire

**Cover:** Pin pricked blue synthetic rubber resistant to abrasion, oils, ozone and weathering. Black heavy duty abrasion resistant cover also available. Specify JW250A for the higher level of abrasion resistance with black cover

### Applications

Extremely flexible, high pressure compact hose for pressure cleaners. Suitable for conducting water and detergents in aqueous solution.

**Temperature Range:**  
-40°C up to +155°C

**Approvals:**  
Lay line example may not be a true indication of current status. Refer Pirtek for current information

### Reference Specifications

Hose Tails: Pirtek 'K' Series

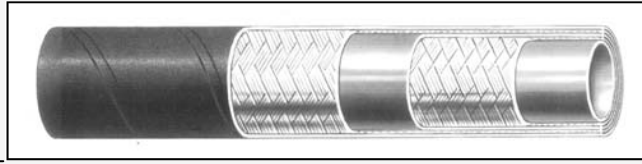
**Lay line examples:** Embossed text on either a light blue outer cover (JW250) or on a black abrasion resistant cover (JW250A)

*PIRTEK* JETWASH 6.5 mm (1/4") JW250A-04 250 BAR (3625 PSI) WORK PRESS MAX 155°C ABRASION RESISTANT COVER

*PIRTEK* JETWASH 9.5 mm (3/8") JW250-06 250 BAR (3625 PSI) WORK PRESS MAX 155°C

Product Code	Nominal ID		ID	OD mm		Pressure bar		Min bend radius mm	Weight Kg/m
	DN	in	mm.	Rein-force.	Cover	work-ing	min burst		
JW250A-04	6	1/4	6.4	9.9	11.6	250	1000	35	0.18
JW250-06	10	3/8	9.5	13.2	16.3	250	950	75	0.29
JW250A-06	10	3/8	9.5	13.2	16.3	250	950	75	0.29

# JW400 JW400A



### Construction

**Inner Tube:** Synthetic rubber, resistant to water and detergents in aqueous solution

**Reinforcement:** Two braids of high tensile steel wire

**Cover:** Pin pricked blue synthetic rubber resistant to abrasion, oils, ozone and weathering. Black heavy duty abrasion resistant cover also available. Specify JW250A for the higher level of abrasion resistance with black cover

### Applications

High pressure compact hose for pressure cleaners. Suitable for conducting water and detergents in aqueous solution.

**Temperature Range:**  
-40°C up to +155°C

### Approvals:

Lay line example may not be a true indication of current status. Refer Pirtek for current information

### Reference Specifications

Hose Tails: Pirtek 'K' Series

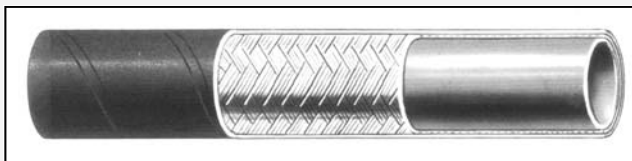
**Lay line examples:** Embossed text on either a light blue outer cover (JW250) or on a black abrasion resistant cover (JW250A)

*PIRTEK* JETWASH 69.5 mm (3/8") JW250A-06 400 BAR (3625 PSI) WORK PRESS MAX 155°C ABRASION RESISTANT

*PIRTEK* JETWASH 9.5 mm (3/8") JW400-06 250 BAR (3625 PSI) WORK PRESS MAX 155°C

Product Code	Nominal ID		ID	OD mm		Pressure bar		Min bend radius mm	Weight Kg/m
	DN	in	mm.	Rein-force.	Cover	work-ing	min burst		
JW400-06	10	3/8	9.5	14.8	16.8	400	1520	90	0.44
JW400A-06	10	3/8	9.5	14.8	16.8	400	1520	90	0.44

# R1AT



## Construction

**Inner Tube:** Seamless synthetic rubber, resistant to oil.

**Reinforcement:** One braid of high tensile steel wire.

**Cover:** Black synthetic rubber resistant to abrasion, oils, ozone and weathering

## Applications

Medium pressure hose for hydraulic fluids such as mineral and vegetable oils, aqueous emulsions and water.

**Temperature Range:**  
-40°C up to +100°C (125°C intermittent)

**Approvals:**  
Still pending. Lay line example may not be a true indication of current status. Refer Pirtek for current information.

## Reference Specifications

SAE J 517 (SAE 100R1AT)  
EN 853 1SN  
Former DIN 20022 1SN (part 3)

**Impulse Testing:**  
All sizes tested to 150 000 cycles (hose only)

**Hose Tails:** Pirtek 'K' Series to 5/8"  
Pirtek 'J' Series 3/4" to 2"

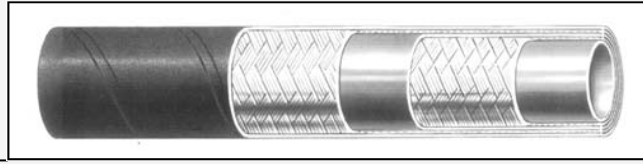
Lay line example: White text on black background. **Note Approvals above.**

*PIRTEK* SAE 100R1 AT — DIN EN 853 1SN 25mm (1") R1AT-16 88 BAR (1,200 PSI) WORK. PRESS. FRAS

Product Code	Nominal ID		ID	OD mm		Pressure bar		Min bend radius mm	Weight Kg/m
	DN	in	mm.	Reinforce.	Cover	working	min burst		
R1AT-03 †	5	3/16	4.8	9.5	11.8	250	1000	90	0.18
R1AT-04	6	1/4	6.4	11.1	13.4	225	900	100	0.23
R1AT-05 †	8	5/16	7.9	12.7	15.0	215	850	115	0.27
R1AT-06	10	3/8	9.5	15.1	17.4	180	720	130	0.33
R1AT-08	12	1/2	12.7	18.3	20.6	160	640	180	0.41
R1AT-10 †	16	5/8	15.9	21.4	23.7	130	520	200	0.48
R1AT-12	19	3/4	19.0	25.4	27.7	105	420	240	0.61
R1AT-16	25	1	25.4	33.3	35.6	88	350	300	0.94
R1AT-20	31	1 1/4	31.8	40.5	43.5	63	250	420	1.19
R1AT-24	38	1 1/2	38.1	46.8	50.1	50	200	500	1.60
R1AT-32	51	2	50.8	60.2	63.5	40	160	630	2.20

† Non-standard product. Available to special order

## R2AT



## Construction

**Inner Tube:** Seamless synthetic rubber, resistant to oil.

**Reinforcement:** Two braids of high tensile steel wire.

**Cover:** Black synthetic rubber resistant to abrasion, oils, ozone and weathering

## Applications

Medium to high pressure hose for hydraulic fluids such as mineral and vegetable oils, aqueous emulsions, water and inert gases.

**Temperature Range:**  
-40°C up to +100°C (125°C intermittent)

**Approvals:**  
Still pending. Lay line example may not be a true indication of current status. Refer Pirtek for current information.

## Reference Specifications

SAE J 517 (SAE 100R2AT)  
EN 853 2SN  
Former DIN 20022 2SN (part 4)

**Impulse Testing:**  
All sizes tested to 200 000 cycles (hose only)

**Hose Tails:** Pirtek 'K' Series to 5/8"  
Pirtek 'J' Series 3/4" to 2"  
Anchor 954 Series 2 1/2"

Lay line example: Green text on black background. Note Approvals above.

PIRTEK SAE 100R2AT — DIN EN 853 2SN 25mm (1") R2AT-16 165 BAR (2,400 PSI) WORK. PRESS.FRAS

Product Code	Nominal ID		ID	OD mm		Pressure bar		Min bend radius mm	Weight Kg/m
	DN	in	mm.	Reinforce.	Cover	working	min burst		
R2AT-03 †	5	3/16	4.8	11.1	13.4	415	1650	90	0.30
R2AT-04	6	1/4	6.4	12.7	15.0	400	1600	100	0.36
R2AT-05 †	8	5/16	7.9	14.3	16.6	350	1400	115	0.45
R2AT-06	10	3/8	9.5	16.7	19.0	330	1320	130	0.53
R2AT-08	12	1/2	12.7	19.8	22.2	275	1100	180	0.63
R2AT-10	16	5/8	15.9	23.0	25.4	250	1000	200	0.74
R2AT-12	19	3/4	19.0	27.0	29.3	215	850	240	0.92
R2AT-16	25	1	25.4	34.9	38.1	165	650	300	1.38
R2AT-20	31	1 1/4	31.8	44.5	48.3	125	500	420	1.67
R2AT-24	38	1 1/2	38.1	50.8	54.3	90	360	500	2.30
R2AT-32	51	2	50.8	63.5	67.0	80	320	630	3.16
R2AT-40 <sup>a</sup>	63	2 1/2	63.5	na	79.0	69	275	590	3.60
R2AT-48 † <sup>a</sup>	76	3	76.0	na					

<sup>a</sup> Conforms to EN857 2SC specifications

† Non-standard product. Available to special order

# R2ATHT



## Construction

**Inner Tube:** Seamless synthetic rubber, resistant to oil.

**Reinforcement:** Two braids of high tensile steel wire.

**Cover:** Blue synthetic rubber resistant to abrasion, oils, ozone and weathering

## Applications

High temperature hose at medium to high pressures for hydraulic fluids such as mineral and vegetable oils, aqueous emulsions, water, air and inert gases.

**Temperature Range:**  
-40°C up to +135°C (150°C intermittent) except air not to exceed 121°C

### Approvals

Still pending. Lay line example may not be a true indication of current status. Refer Pirtek for current information.

## Reference Specifications

SAE J 517 (SAE 100R2AT)  
EN 853 2SN  
Former DIN 20022 2SN (part 4)

### Impulse Testing:

All sizes tested to 200 000 cycles (hose only)

**Hose Tails:** Pirtek 'K' Series to 5/8"  
Pirtek 'J' Series 3/4" to 2"

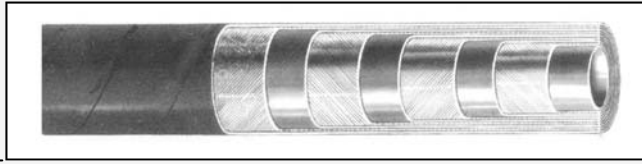
Lay line example: White text on the blue lay line of the hose. Note Approvals above.

**PIRTEK R2 AT — DIN EN 853 2SN "HIGH TEMP" 25mm (1") R2ATHT-16 165 BAR (2400 PSI) WORK.PRESS: 150°C MSHA IC-188/1**

Product Code	Nominal ID		ID	OD mm		Pressure bar		Min bend radius mm	Weight Kg/m
	DN	in	mm.	Reinforce.	Cover	working	min burst		
R2ATHT-04	6	1/4	6.4	12.7	15.0	400	1600	100	0.36
R2ATHT-05	8	5/16	7.9	14.3	16.6	350	1400	115	0.45
R2ATHT-06	10	3/8	9.5	16.7	19.0	330	1320	130	0.53
R2ATHT-08	12	1/2	12.7	19.8	22.2	275	1100	180	0.63
R2ATHT-10	16	5/8	15.9	23.0	25.4	250	1000	200	0.74
R2ATHT-12	19	3/4	19.0	27.0	29.3	215	850	240	0.92
R2ATHT-16	25	1	25.4	34.9	38.1	165	650	300	1.38
R2ATHT-20	31	1 1/4	31.8	44.5	48.3	125	500	420	1.67
R2ATHT-24	38	1 1/2	38.1	50.8	54.3	90	360	500	2.30
R2ATHT-32 †	51	2	50.8	63.5	67.0	80	320	630	3.16

† Non-standard product. Available to special order

## C21



### Construction

**Inner Tube:** Seamless synthetic rubber, resistant to oil.

**Reinforcement:** 4 spirals of high tensile steel wire.

**Cover:** Abrasion resistant black synthetic rubber resistant to oils, ozone and weathering.

Cover loss by abrasion when tested in accordance with ISO 6945 is less than 1.0 gram after 2000 cycles.

### Applications

Isobaric (constant 210 bar working pressure across all sizes) hose for hydraulic fluids such as mineral and vegetable oils, aqueous emulsions, water and inert gases.

Prolonged usage with water or water based fluids will allow wire corrosion as a result of diffusion through the inner liner.

#### Temperature Range:

-40°C up to +120°C mineral oil  
 -40°C up to +70°C water based fluids  
 0°C up to +70°C water  
 -40°C up to 70°C ambient

#### Approvals:

MSHA Approval No. IC-104/1 PAR No. 84844

Lay line example may not be a true indication of current status. Refer Pirtek for current information.

### Reference Specifications

JIS K6349-3

#### Impulse Testing:

Tested to 500 000 cycles @133% of working pressure in accordance with SAE 100 R12 requirements (hose only)

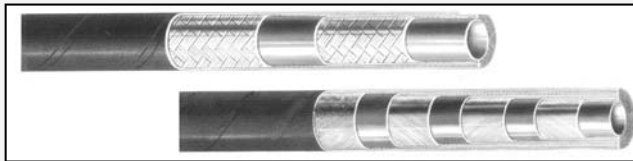
**Hose Tails:** Pirtek 'J' or 'X' Series

Lay line example: Blue text on black hose. **Note Approvals above.**

**PIRTEK C21 50 mm (2") C21-32 210 BAR (3,000 PSI) MSHA IC-104/1 ABRASION RESISTANT**

Product Code	Nominal ID			Type	OD mm		Pressure bar		Min bend radius mm	Weight Kg/m
	DN	in	mm		Rein-force.	Cover	working	min burst		
C21-32	51	2	50.8	4 spiral	63.6	66.7	210	840	500	4.20

# C25



## Construction

**Inner Tube:** Seamless synthetic rubber, resistant to oil.

**Reinforcement:** Two braids of high tensile steel wire, or 4 spirals of high tensile steel wire.

**Cover:** Abrasion resistant black synthetic rubber resistant to oils, ozone and weathering.

Cover loss by abrasion when tested in accordance with ISO 6945 is less than 1.0 gram after 2000 cycles.

## Applications

Isobaric (constant 250 bar working pressure across all sizes) hose for hydraulic fluids such as mineral and vegetable oils, aqueous emulsions, water and inert gases.

Prolonged usage with water or water based fluids will allow wire corrosion as a result of diffusion through the inner liner.

### Temperature Range:

Braided hoses:

-40°C up to +100°C mineral oil, aqueous emulsions, water, air and inert gases.

Intermittent to 125°C.

Spiral hoses:

-40°C up to +120°C mineral oil

-40°C up to +70°C water based fluids

0°C up to +70°C water

-40°C up to 70°C ambient

### Approvals:

MSHA Approval No. IC-104/1 PAR No. 84844 applies to the spiral hoses.

Still pending. Lay line example may not be a true indication of current status. Refer Pirtek for current information.

## Reference Specifications

Meets or exceeds SAE J 517 (100 R16)

Meets or exceeds EN 857 2SC

Tested in accordance with SAE J517, EN856, AS3791

### Impulse Testing:

Refer to the Table for Impulse Test criteria

Braided hoses as per SAE 100 R2

Spiral hoses as per SAE 100 R12

### Hose Tails:

Pirtek 'K' Series to 5/8"

Pirtek 'J' Series 3/4", 1"

Pirtek 'J' or 'X' Series 1 1/4", 1 1/2"

Lay line examples: Blue text on black hose. Note Approvals above.

**PIRTEK** C25 SERIES II 19mm (3/4") C25-12 250 BAR (3,500 PSI) W.P. FRAS ABRASION RESISTANT

**PIRTEK** C25 25mm (1") C25-16 250 BAR (3,500 PSI) W.P. MSHA IC-188 ABRASION RESISTANT

Product Code	Nominal ID			Type	OD mm		Pressure bar		Min bend radius mm	Weight Kg/m	Test Impulses
	DN	in	mm		Reinforce.	Cover	working	min burst			
C25-10	16	5/8	15.9	2 braid	21.9	24.0	280	1120	90	0.68	200 000
C25-12	19	3/4	19.0	2 braid	25.8	27.8	250	1000	120	0.80	200 000
C25-16	25	1	25.4	2 braid	34.4	38.5	250	1000	300	1.58	200 000
C25-20	31	1 1/4	32.2	4 spiral	43.9	47.0	250	1000	350	2.70	500 000
C25-24	38	1/2	38.5	4 spiral	48.8	53.5	250	1000	450	3.20	500 000

## C35



### Construction

**Inner Tube:** Seamless synthetic rubber, resistant to oil.

**Reinforcement:** Two braids of high tensile steel wire, or 4-6 spirals of high tensile steel wire.

**Cover:** Abrasion resistant black synthetic rubber resistant to oils, ozone and weathering.

Cover loss by abrasion when tested in accordance with ISO 6945 is less than 1.0 gram after 2000 cycles.

### Applications

Isobaric (constant 350 bar working pressure across all sizes) hose for hydraulic fluids such as mineral and vegetable oils, aqueous emulsions, water and inert gases.

Prolonged usage with water or water based fluids will allow wire corrosion as a result of diffusion through the inner liner.

#### Temperature Range:

Braided hoses:

-40°C up to +100°C mineral oil, aqueous emulsions, water, air and inert gases.

Intermittent to 125°C.

Spiral hoses:

-40°C up to +120°C mineral oil

-40°C up to +70°C water based fluids

0°C up to +70°C water

-40°C up to 70°C ambient

#### Approvals:

MSHA Approval No. IC-104/1 PAR No. 84844 5/8" on all spiral hoses.

Braided hoses still pending. Lay line example may not be a true indication of current status. Refer Pirtek for current information.

### Reference Specifications

Meets or exceeds SAE J 517 (100 R16)

Meets or exceeds EN 857 2SC

Tested in accordance with SAE J517, EN856, AS3791

#### Impulse Testing:

Refer to the Table for Impulse Test criteria

Braided hoses as per SAE 100 R2

Spiral hoses as per SAE 100 R13

#### Hose Tails:

Pirtek 'K' Series to 5/8"

Pirtek 'J' Series 3/4", 1"

Pirtek 'X' Series 1", 1 1/4", 1 1/2", 2"

Interlock option 3/4" and above

Lay line example: Red text on black hose. Refer Approvals above.

PIRTEK CLASS 35 9.5mm (3/8") C35-06 350 BAR (5000 PSI) MSHA IC-188 ABRASION RESISTANT

Product Code	Nominal ID			Type	OD mm		Pressure bar		Min bend radius mm	Weight Kg/m	Test Impulses
	DN	in	mm		Reinforce.	Cover	working	min burst			
C35-05	8	5/16	7.9	2 braid	13.0	15.2	380	1520	55	0.34	200 000
C35-06	10	3/8	9.5	2 braid	15.2	17.5	350	1400	65	0.42	200 000
C35-08	12	1/2	12.7	2 braid	19.4	21.4	350	1400	130	0.62	200 000
C35-10	16	5/8	16.1	4 spiral	23.7	27.4	350	1400	200	1.00	500 000
C35-12	19	3/4	19.2	4 spiral	28.1	30.7	350	1400	220	1.50	500 000
C35-16	25	1	25.6	4 spiral	35.6	38.7	350	1400	280	2.20	500 000
C35-20	31	1 1/4	32.2	6 spiral	45.6	48.7	350	1400	380	3.70	500 000
C35-24	38	1 1/2	38.5	6 spiral	52.5	55.6	350	1400	480	4.40	500 000
C35-32	51	2	51.2	6 spiral	68.1	71.1	350	1400	600	6.90	500 000

# C42



## Construction

**Inner Tube:** Seamless synthetic rubber, resistant to oil.

**Reinforcement:** Two braids of high tensile steel wire, or 4-6 spirals of high tensile steel wire.

**Cover:** Abrasion resistant black synthetic rubber resistant to oils, ozone and weathering.

Cover loss by abrasion when tested in accordance with ISO 6945 is less than 1.0 gram after 2000 cycles.

## Applications

Isobaric (constant 420 bar working pressure across all sizes) hose for hydraulic fluids such as mineral and vegetable oils, aqueous emulsions, water and inert gases.

Prolonged usage with water or water based fluids will allow wire corrosion as a result of diffusion through the inner liner.

### Temperature Range:

Braided hoses:

-40°C up to +100°C mineral oil, aqueous emulsions, water, air and inert gases.

Intermittent to 125°C.

Spiral hoses:

-40°C up to +120°C mineral oil

-40°C up to +70°C water based fluids

0°C up to +70°C water

-40°C up to 70°C ambient

### Approvals:

MSHA Approval No. IC-104/1 PAR No. 84844 on all spiral hoses

Braided hoses still pending. Lay line example may not be a true indication of current status. Refer Pirtek for current information.

## Reference Specifications

Meets or exceeds SAE J 517 (100 R16)

Meets or exceeds EN 857 2SC

Tested in accordance with SAE J517, EN856, AS3791

### Impulse Testing:

Refer to the Table for Impulse Test criteria

Braided hoses as per SAE 100 R2

Spiral hoses as per SAE 100 R15

### Hose Tails:

Pirtek 'K' Series to 1/2"

Pirtek 'X' Series 3/4", 1"

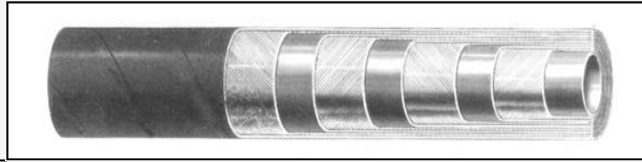
Interlock option 1" and beyond

Lay line example: Yellow text on black hose. Refer Approvals above.

PIRTEK CLASS 42 19 mm (3/4") C42-12 420 BAR (6,000 PSI) WORK.PRESS. MSHA IC-104-1 ABRASION RESISTANT

Product Code	Nominal ID			Type	OD mm		Pressure bar		Min bend radius mm	Weight Kg/m	Test Impulses
	DN	in	mm		Rein-force.	Cover	working	min burst			
C42-04	6	1/4	6.4	2 braid	11.4	13.6	420	1680	45	0.30	200 000
C42-06	10	3/8	9.7	4 spiral	17.2	20.2	420	1680	125	0.70	500 000
C42-08	12	1/2	12.9	4 spiral	20.7	23.8	420	1680	180	0.90	500 000
C42-12	19	3/4	19.2	4 spiral	28.1	30.7	420	1680	280	1.50	500 000
C42-16	25	1	25.7	4 spiral	35.6	38.7	420	1680	300	2.20	500 000
C42-20	31	1 1/4	32.2	6 spiral	46.8	49.8	420	1680	400	3.70	500 000
C42-24	38	1 1/2	38.5	6 spiral	54.3	57.3	420	1680	500	4.40	500 000
C42-32	51	2	51.2	6 spiral	70.6	75.0	420	1680	600	6.90	500 000

# JBF



### Construction

**Inner Tube:** Seamless synthetic rubber, resistant to oil.

**Reinforcement:** Four spirals of high tensile steel wire.

**Cover:** Abrasion resistant black synthetic rubber resistant to oils, ozone and weathering

### Applications

Medium pressure hose for hydraulic fluids such as mineral and vegetable oils, aqueous emulsions and water.

Prolonged usage with water or water based fluids will allow wire corrosion as a result of diffusion through the inner liner.

#### Temperature Range:

-40°C up to +100°C mineral oil  
-40°C up to 70°C ambient

#### Approvals

Lay line example may not be a true indication of current status. Refer Pirtek for current information.

### Reference Specifications

Nil

#### Impulse Testing:

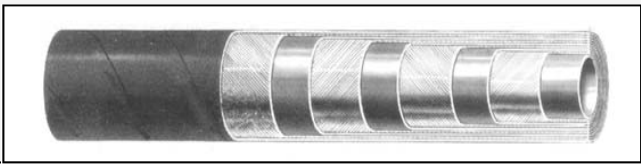
Hose Tails: Pirtek 'BSMS' Series

Lay line example: Light yellow text on black hose. Refer Approvals above.

BRIDGESTONE JUMBO ACE JBF-40 65 x 4S

Product Code	Nominal ID			Type	OD mm		Pressure bar		Min bend radius mm	Weight Kg/m
	DN	in	mm		Rein-force.	Cover	work-ing	min burst		
JBF-40	63	2 1/2	63.5	4 spiral		82.4	140	560	660	5.50

# XT3



## Construction

**Inner Tube:** Seamless synthetic rubber, resistant to oil.

**Reinforcement:** Four spirals of high tensile steel wire.

**Cover:** Grey synthetic rubber resistant to abrasion, oils, ozone and weathering

## Applications

High pressure hose for hydraulic fluids such as glycol, mineral oils, fuels, hydrocarbons etc.

Designed for applications where flexibility and high temperature resistance are required. Compatible with Caterpillar® reusable fittings.

**Temperature Range:**  
-40°C up to +121°C mineral oil

**Approvals:**  
US MSHA IC-101

Lay line example may not be a true indication of current status. Refer Pirtek for current information.

## Reference Specifications

SAE J 517 (100 R12)  
EN 856 R12

**Impulse Testing:**  
1 000 000 impulses @ 133% of working pressure for all sizes. Additionally, hose is aged by heating and cooling prior to testing. Hose only

**Hose Tails:**  
Pirtek 'K' Series to 5/8"  
Pirtek 'J' or 'X' Series 3/4" upwards  
Caterpillar re-useable

Lay line example : White text on grey hose. Refer Approvals above.

PIRTEK SAE 100R12 12.7 MM (.500") ID MAX. W.P. 276 BAR (4,000PSI) MSHA IC-101

Product Code	Nominal ID			Type	OD mm		Pressure bar		Min bend radius mm	Weight Kg/m	MSHA
	DN	in	mm		Reinforce.	Cover	working	min burst			
XT3-06	10	3/8	9.5	4 spiral	17.2	20.2	275	1100	125	0.70	Yes
XT3-08	12	1/2	13	4 spiral	20.7	23.8	275	1100	180	0.83	Yes
XT3-10	16	5/8	16	4 spiral	24.6	27.2	275	1100	200	1.20	Yes
XT3-12	19	3/4	19	4 spiral	27.6	30.7	275	1100	240	1.43	Yes
XT3-16	25	1	25	4 spiral	34.9	38.0	275	1100	305	2.00	Yes
XT3-20	31	1 1/4	32	4 spiral	43.9	47.0	205	820	420	2.80	Yes
XT3-24	38	1 1/2	38	4 spiral	50.4	53.4	170	680	510	3.40	Yes
XT3-32	51	2	51	4 spiral	63.6	66.7	170	680	635	4.25	Yes

# XT5



## Construction

**Inner Tube:** Fabric reinforced synthetic rubber, resistant to oil.

**Reinforcement:** Four or six spirals of high tensile steel wire.

**Cover:** Red synthetic rubber resistant to abrasion, oils, ozone and weathering

## Applications

Very high pressure hose for hydraulic fluids such as glycol, mineral oils, fuels, hydrocarbons etc.

Specifically designed for applications where high pulsating pressure, flexibility and high temperature resistance are required. Compatible with Caterpillar® reusable fittings.

### Temperature Range:

-40°C up to +120°C mineral oil

### Approvals:

In accordance with MSHA

Lay line example may not be a true indication of current status. Refer Pirtek for current information.

## Reference Specifications

SAE J 517 (100 R13)  
EN 856 R13

### Impulse Testing:

1 000 000 impulses @ 120% of working pressure for all sizes. Additionally, hose is aged by heating and cooling prior to testing. Hose only

### Hose Tails:

Pirtek 'X' Series all sizes  
Interlock option 1 1/4" upwards  
Caterpillar re-useable

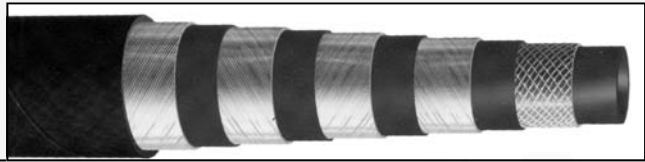
Lay line example : White text on rust red hose. Refer Approvals above.

PIRTEK SAE 100R13 38.1 MM (1.500") ID MAX. W.P. 345 BAR (5,000PSI) MSHA IC-101

Product Code	Nominal ID			Type	OD mm		Pressure bar		Min bend radius mm	Weight Kg/m	MSHA
	DN	in	mm		Rein-force.	Cover	work-ing	min burst			
XT5-12	19	3/4	19	4 spiral	29.0	32.1	350	1400	240	1.75	Yes
XT5-16	25	1	25	4 spiral	35.6	38.7	350	1400	305	2.30	Yes
XT5-20	31	1 1/4	32	6 spiral	46.8	49.8	350	1400	420	3.70	Yes
XT5-24	38	1 1/2	38	6 spiral	54.3	57.3	350	1400	510	4.65	Yes
XT5-32	51	2	51	6 spiral	68.1	71.1	350	1400	635	6.90	Yes

# WB900

## Waterblast hose



### Construction

**Working Pressure:**  
10875 - 18125psi (750 –1250 bar)

**Inner Tube:** Synthetic rubber, resistant. to oils

**Reinforcement:** Four spirals of high tensile steel wire.

**Cover:** Black synthetic rubber extremely resistant to abrasion, oils, and weathering

### Applications

Very high constant pressure hose for water scaling systems. Suitable for passage of water and aqueous solutions.

**Temperature Range:**  
-40°C up to +80°C

**Safety Factor:** 2.5 : 1

### Approvals:

Still pending. Lay line example may not be a true indication of current status. Refer Pirtek for current information.

### Reference Specifications

Nil

### Impulse Testing:

Hoses are tested to withstand 500 000 impulse cycles (hose only)

### Hose Tails:

I / IFWB (Interlock)

Lay line example : Moulded into outer cover. Refer Approvals above.

PIRTEK WATERBLAST 3/4" DN19 W.P. 900 BAR B.P. 2250 BAR

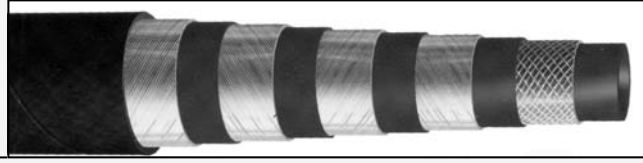
Product Code	Nominal ID			OD mm		Pressure bar		Min bend radius mm	Weight Kg/m
	DN	in	mm	Reinforce.	Cover	working	min burst		
WB900-12	19	3/4	19.0	29.8	32.8	900	2250	310	1.94

Not recommended for hydraulic applications.

† Non-standard product. Available to special order

# WB1100

## Waterblast hose



### Construction

**Working Pressure:**  
10875 - 18125psi (750 –1250 bar)

**Inner Tube:** Synthetic rubber, resistant. to oils

**Reinforcement:** Four spirals of high tensile steel wire.

**Cover:** Black synthetic rubber extremely resistant to abrasion, oils, and weathering

### Applications

Very high constant pressure hose for water scaling systems. Suitable for passage of water and aqueous solutions.

**Temperature Range:**  
-40°C up to +80°C

**Safety Factor:** 2.5 : 1

### Approvals:

Still pending. Lay line example may not be a true indication of current status. Refer Pirtek for current information.

### Reference Specifications

Nil

### Impulse Testing:

Hoses are tested to withstand 500 000 impulse cycles (hose only)

### Hose Tails:

I / IFWB (Interlock)

Lay line example : Moulded into outer cover. Refer Approvals above.

PIRTEK WATERBLAST 1/2" DN12 W.P. 1100 BAR B.P. 2850 BAR

Product Code	Nominal ID			OD mm		Pressure bar		Min bend radius mm	Weight Kg/m
	DN	in	mm	Reinforce.	Cover	working	min burst		
WB1100-04 †	6	1/4	6.4	14.6	17.8	1100	2750	160	0.66
WB1100-06 †	10	3/8	9.5	19.8	23.8	1100	2750	210	1.10
WB1100-08	12	1/2	12.7	22.7	26.2	1100	2750	290	1.38
WB1000-12 †	19	3/4	19.0	29.8	32.8	1000	2500	310	1.94

Not recommended for hydraulic applications.

† Non-standard product. Available to special order



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# 30CT

## Broad spectrum hose



### Construction

**Working Pressures:**  
Constant 3000 psi (207 bar) across all sizes

**Inner Tube:** composite wall dual extrusion smooth seamless polymeric (polyester) inner and polyurethane adjacent

**Reinforcement:** braided synthetic fibre in either single or dual layer

**Cover:** black non stick perforated polymeric (polyester) bonded to the reinforcement

### Applications

Flexible even in cold temperatures. Small outside diameter and good flexibility over sheaves allows use over a wide range of forklift sheaves, including freezer applications.

Other applications include construction, general hydraulics, chemical and gas transfer, machine tools, agricultural equipment etc.

#### Temperature Range:

-54°C up to +94°C for hydraulic fluids  
-54°C up to 66°C for water based and fire resistant fluids

#### Approvals:

Lay line example may not be a true indication of current status. Refer Pirtek for current information.

### Reference Specifications

Exceeds SAE J517 (R18)  
SAE J343 Test procedures  
ASTM D-380 Testing Rubber hoses  
ASTM D-622 Testing for Automotive Brake Systems

#### Impulse Testing:

Hoses are tested to withstand 200 000 impulse cycles (hose only) at 133% WP

#### Volumetric Expansion:

Typically 10 cc per metre for 1/4" at WP  
20cc per metre for 1/2" at WP  
Consult Pirtek for details

#### Hose Tails:

Pirtek 'S7' or 'S18' Series  
(refer Table for Die)  
Pirtek 'T' Series option

Lay line example: White text on the black hose. Refer Approvals above.

SYNFLEX® 30CT-06 SAE 100R18 3/8" W.P 3000 P.S.I. (207 BAR) SAINT-GOBAIN

Product Code	Nominal ID			Max OD mm	Pressure bar		Min bend radius mm	Weight Kg/ 100m	Synflex Die and Hose Tail Combination	
	mm	in	DN		working	min burst			Die 4540-	Series
30CT-04	6.4	1/4	6	12.1	207	828	32	8.9	3W4	S7
30CT-05	8	5/16	8	15.5	207	828	38	14.7	305	S7
30CT-06	9.5	3/8	10	16.8	207	828	51	18.2	306	S7
30CT-08	12.7	1/2	12	21.6	207	828	89	24.7	H08	S7
30CT-10	16	5/8	16	27	207	828	102	41.4	N10	S18

# 30CTX2

## Twin-line broad spectrum



### Construction

**Working Pressures:**  
Constant 3000 psi (207 bar) across all sizes

**Inner Tube:** composite wall dual extrusion smooth seamless polymeric (polyester) inner and polyurethane adjacent

**Reinforcement:** braided synthetic fibre in either single or dual layer

**Cover:** black non stick perforated polymeric (polyester) bonded to the reinforcement

### Applications

Flexible even in cold temperatures. Small outside diameter and good flexibility over sheaves allows use over a wide range of forklift sheaves, including freezer applications.

Other applications include construction, general hydraulics, chemical and gas transfer, machine tools, agricultural equipment etc.

**Temperature Range:**  
-54°C up to +94°C including water based and fire resistant fluids

**Approvals:**  
Lay line example may not be a true indication of current status. Refer Pirtek for current information.

### Reference Specifications

Exceed SAE J517 (R18)  
SAE J343  
ASTM D-380  
ASTM D-622

**Impulse Testing:**  
Hoses are tested to withstand 200 000 impulse cycles (hose only) at 133% WP

**Volumetric Expansion (per line):**  
Typically 10 cc per metre for 1/4" at WP  
20cc per metre for 1/2" at WP  
Consult Pirtek for details

**Hose Tails:**  
Pirtek 'S7' or 'S18' Series (refer Table for Die)  
Pirtek 'T' Series option

Also available as 30CTX3 Tri-Line to special order.

Lay line example: White text on the black hose. Each line is branded as though a single line. See Approvals above.

SYNFLEX® 30CT-06 SAE 100R18 3/8" W.P 3000 P.S.I. (207 BAR) SAINT-GOBAIN

Product Code	Nominal ID			Max OD mm	Pressure bar		Min bend radius mm	Weight Kg/ 100m	Synflex Die and Hose Tail Combination	
	mm	in	DN		working	min burst			Die 4540-	Series
30CTX2-04	6.4	1/4	6	12.1	207	828	32	8.9	3W4	S7
30CTX2-05	8	5/16	8	15.0	207	828	38	11.9	305	S7
30CTX2-06	9.5	3/8	10	16.5	207	828	51	12.2	306	S7
30CTX2-08	12.7	1/2	12	22.1	207	828	89	18.2	H08	S7
30CTX2-10 †	16	5/8	16	27	207	828	102	41.4	N10	S18

† Non-standard product. Available to special order

# 3130

## Medium pressure hose



### Construction

**Working Pressures:**  
1000—3000 psi (69—207 bar)

**Inner Tube:** smooth seamless thermo-plastic (nylon)

**Reinforcement:** spiralled or braided synthetic

**Cover:** Perforated bonded black polyurethane

### Applications

General hydraulics, high pressure gas transfer, chemical transfer. Low elongation, best value 100 R7 hose.  
Not for use over pulleys.  
Absorbs shock loads and damaging pressure spikes through controlled expansion.

**Temperature Range:**  
-40°C up to +100°C  
Max 66°C with water-based or fire resistant fluids.

**Approvals:**  
Lay line example may not be a true indication of current status. Refer Pirtek for current information.

### Reference Specifications

SAE J517 (R7)  
SAE J343  
ASTM D-380  
ASTM D-622

**Impulse Testing:**  
Hoses are tested to withstand 200 000 impulse cycles (hose only)

**Hose Tails:**  
Pirtek 'S7' Series (refer Table for Die)  
Pirtek 'T' Series option

Lay line example: White text on the black hose. Refer Approvals above.

SYN FLEX® 3130-06 SAE 100R73/8" W.P 2250 P.S.I. (155 BAR) SAINT-GOBAIN

Product Code	Nominal ID			Max OD mm	Pressure bar		Min bend radius mm	Weight Kg/ 100m	Synflex Die and Hose Tail Combination	
	DN	in	mm		working	min burst			Die 4540-	Series
3130-02	3	1/8	3.2	8.5	172	689	13	3.87	302	S7
3130-03	5	3/16	5	10.8	207	827	19	6.70	303	S7
3130-04	6	1/4	6.4	12.9	207	827	32	9.08	304	S7
3130-05	8	5/16	8	15.1	172	689	45	11.16	305	S7
3130-06	10	3/8	9.5	16.7	155	620	51	12.5	306	S7
3130-08	12	1/2	12.7	20.7	138	552	76.2	16.97	308	S7
3130-12	20	3/4	19	27.1	86	345	127	26.19	312	S7
3130-16	25	1	25.4	34.0	69	276	203	46.28	316	S7

# 3360X2

## Twin-line for Forklifts



### Construction

**Working Pressure:**  
3000 psi (207 bar)

**Inner Tube:** nylon

**Reinforcement:** braided synthetic fibre

**Cover:** black non stick perforated poly-  
meric (polyester)

### Applications

Flexible even in cold temperatures. Small outside diameter and good flexibility over sheaves allows use over a wide range of forklift sheaves, including freezer applications.

Other applications include construction, general hydraulics, chemical and gas transfer, machine tools, agricultural equipment etc.

#### Temperature Range:

-54°C up to +100°C (max. 66°C with water based and fire resistant fluids)

#### Approvals:

Lay line example may not be a true indication of current status. Refer Pirtek for current information.

### Reference Specifications

SAE 100R17

#### Impulse Testing:

Hoses are tested to withstand 200 000 impulse cycles (hose only) at 133% WP

#### Volumetric Expansion (per line):

Typically 10 cc per metre for 1/4" at WP  
20cc per metre for 1/2" at WP  
Consult Pirtek for details

#### Hose Tails:

Pirtek 'S8' (refer Table for Die)  
Pirtek '200/SN8' Series option

**Lay line example:** White text on the black hose. Each line is branded as though a single line. See Approvals above.

SYNFLEX® 3360-06 SAE 100R17 3/8" W.P 3000 P.S.I. (207 BAR) SAINT-GOBAIN

Product Code	Nominal ID			Max OD mm	Pressure bar		Min bend radius mm	Weight Kg/ 100m	Synflex Die and Hose Tail Combination	
	mm	in	DN		working	min burst			Die 4540-	Series
3360X2-06 †	9.5	3/8	10	18.4	207	828	51	56.8	J06N	S8

† Please note that this hose is available on an indent only basis.

† Non-standard product. Available to special order



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Rev. 2.3

# 3420

## Paint spray hose



### Construction

**Working Pressure:**  
3300 psi (225 bar) across all sizes

**Inner Tube:** smooth seamless nylon, electrically conductive

**Reinforcement:** spiralled or braided synthetic fibre

**Cover:** black polyurethane

### Applications

Airless paint spray supply lines. Wireless design dissipates static electricity. Resistant to paint solvents. Designed for use with an electrically conductive coupling.

**Temperature Range:**  
-40°C up to +66°C

**Approvals:**  
Lay line example may not be a true indication of current status. Refer Pirtek for current information.

### Reference Specifications

Not applicable

**Impulse Testing:**  
Hoses are tested to withstand 200 000 impulse cycles (hose only)

#### Hose Tails:

Special procedures apply. Eyelets, guards and warning tags required on the completed assembly.

Assemblies only to be made by trained personnel listed on the Qualified Personnel Register.

Lay line example: White text on the black hose. See Approvals above.

SYNFLEX® 3420-04 WIRELESS/AIRLESS PAINT SPRAY HOSE 1/4" W.P. 3,300 PSI (228 BAR) DIE J04 SAINT GOBAIN

Product Code	Nominal ID			Max OD mm	Pressure bar		Min bend radius mm	Weight Kg/100m	Synflex Die and Hose Tail Combination	
	mm	in	DN		working	min burst			Die	Series
3420-03	4.8	3/16"	5	10.8	228	910	19	6.8	Assembly by accredited people only.	
3420-04	6.4	1/4	6	13.2	228	910	25	9.2		
3420-06	9.5	3/8	10	18.5	228	910	63	18.9		

# 3490

## Paint spray hose



### Construction

**Working Pressure:**  
5000 psi (345 bar) across all sizes

**Inner Tube:** smooth seamless nylon, electrically conductive

**Reinforcement:** braided synthetic fibre

**Cover:** black perforated polymeric

### Applications

Airless paint spray supply lines.  
Wireless design dissipates static electricity.

Resistant to paint solvents.  
Designed for use with an electrically conductive coupling.

**Temperature Range:**  
-40°C up to +66°C

**Approvals:**  
Lay line example may not be a true indication of current status. Refer Pirtek for current information.

### Reference Specifications

Not applicable

**Impulse Testing:**  
Hoses are tested to withstand 200 000 impulse cycles (hose only)

#### Hose Tails:

Pirtek 'S8' Series (refer Table for Die)  
Special procedures apply.  
Eyelets, guards and warning tags required on the completed assembly.

Assemblies only to be made by trained personnel listed on the Qualified Personnel Register.

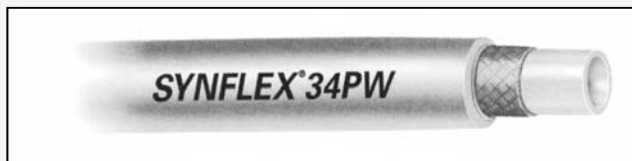
Lay line example: White text on the black hose. See Approvals above.

SYN FLEX® 3490-06 WIRELESS/AIRLESS PAINT SPRAY HOSE 3/8" W.P. 5,000 PSI (345 BAR) FURON

Product Code	Nominal ID			Max OD mm	Pressure bar		Min bend radius mm	Weight Kg/ 100m	Synflex Die and Hose Tail Combination	
	mm	in	DN		working	min burst			Die 4540-	Series
3490-04	6.4	1/4	6	16.0	345	1379	51	17.3	H04	S8
3490-06	9.5	3/8	10	19.5	345	1379	102	22.6	HP6	S8

# 34PW

Pure water hose



### Construction

**Working Pressure:**  
1500-2700 psi (104-190 bar)

**Inner Tube:** polyolefin, free of plasticisers.  
NSF and FDA approved materials

**Reinforcement:** braided synthetic fibre

**Cover:** non-perforated blue polyurethane

### Applications

Pure water transfer, deionised water, distilled water, potable water, food products.

Prevents moisture transmission, extraction of contaminants.

**Features:** Approved by the US navy for pure water applications.  
Long lengths available.

**Temperature Range:**  
-23°C up to +66°C

### Reference Specifications

MIL-STD-767A Ships

**Impulse Testing:**  
Hoses are tested to withstand 200 000 impulse cycles (hose only)

**Hose Tails:**

Pirtek 'S7' Series (refer Table for Die)

Product Code	Nominal ID			Max OD mm	Pressure bar		Min bend radius mm	Weight Kg/ 100m	Synflex Die and Hose Tail Combination	
	DN	in	mm		working	min burst			Die 4540-	Series
34PW-04 †	6	1/4	6.4	13.2	190	758	32	9.6	304	S7
34PW-06 †	10	3/8	9.5	16.6	155	620	51	13.4	306	S7
34PW-08 †	12	1/2	12.7	20.6	138	552	76	24.4	308	S7
34PW-12 †	19	3/4	19.0	29.0	104	414	127	36.9	H12	S7
34PW-16 †	25	1	25.4	37.0	104	414	203	55.6	B1600-001	S7

Note: Always use accepted cleaning practices to clean the finished hose assembly before use.

† Non-standard product. Available to special order

# 3730

## Medium pressure hose



### Construction

**Working Pressures:**  
3000 psi (207 bar)

**Inner Tube:** nylon

**Reinforcement:** braided synthetic fibre

**Cover:** black perforated polyurethane

### Applications

Hydraulic tools, lubrication systems, mobile hydraulics, agricultural equipment.. The most flexible thermoplastic hose available.

**Temperature Range:**  
-40°C up to +100°C  
except max. 66°C with water based or fire resistant fluids

### Reference Specifications

SAE 100 R7

**Impulse Testing:**  
Hoses are tested to withstand 200 000 impulse cycles (hose only)

#### Hose Tails:

Pirtek 'S7' Series (refer Table for Die)  
Pirtek 'T' Series

Also available as twin line Product Code 3730X2

Product Code	Nominal ID			Max OD per line mm	Pressure bar		Min bend radius mm	Weight Kg/ 100m	Synflex Die and Hose Tail Combination	
	DN	in	mm		working	min burst			Die	Series
3730-03	5	3/16	4.8	10.8	207	827	19	8.3	303	S7
3730X2-03	5	3/16	4.8	10.8	207	827	19	16.6	303	S7



# 3800

## High pressure hose



### Construction

**Working Pressures:**  
3500-5000 psi (241-345 bar)

**Inner Tube:** nylon core tube.

**Reinforcement:** braided high tensile aramid fibre (Kevlar)

**Cover:** black perforated non stick polyurethane

### Applications

General hydraulic systems  
High pressure gas and chemical transfer  
Machine tools  
Mobile equipment  
Marine steering

**Temperature Range:**  
-40°C up to +100°C  
except max. 66°C with water based or fire resistant fluids

### Reference Specifications

SAE 100 R8

**Impulse Testing:**  
Hoses are tested to withstand 200 000 impulse cycles (hose only)

**Hose Tails:**  
Pirtek 'S7' Series (refer Table for Die)

**Features:** Low volumetric expansion.  
Must not be used over sheaves.

**Approvals:**  
Lay line example may not be a true indication of current status. Refer Pirtek for current information.

Also available as twin line Product Code 3800X2

Lay line example: White text on the black hose. See Approvals above.

SYNFLEX® 3800-04 SAE 100R81/4" W.P 5000 P.S.I. (345 BAR) SAINT-GOBAIN

Product Code	Nominal ID			Max OD per line mm	Pressure bar		Min bend radius mm	Weight Kg/100m	Synflex Die and Hose Tail Combination	
	DN	in	mm		working	min burst			Die 4540-	Series
3800-03	5	3/16	4.8	11.0	345	1379	38	8.3	303	S7
3800-04	6	1/4	6.4	13.5	345	1379	51	11.8	304	S7
3800-06	10	3/8	9.5	16.9	276	1103	64	15.8	306	S7
3800-08	12	1/2	12.7	21.3	241	965	102	21.7	308	S7
3800X2-04	6	1/4	6.4	13.5	345	1379	51	23.6	304	S7
3800X2-06	10	3/8	9.5	16.9	276	1103	64	31.6	306	S7
3800X2-08	12	1/2	12.7	21.3	241	965	102	43.4	308	S7

# 3833

## Gas hose



### Construction

**Working Pressures:**  
2.6 MPa (26 bar)

**Inner Tube:** smooth seamless nylon

**Reinforcement:** spiralled or braided synthetic

**Cover:** Black non stick perforated polymeric.

### Applications

High pressure gas transfer.  
Automotive, LPG powered forklifts, and natural gas fuel hose.  
LPG, natural and town gas.

**Temperature Range:**  
-40°C up to +100°C including water based and fire resistant fluids

**Approvals:**  
AS1869 Class D Approval No. 4805

Lay line example may not be a true indication of current status. Refer Pirtek for current information.

### Reference Specifications

SAE 100 R7

**Impulse Testing:**  
Hoses are tested to withstand 200 000 impulse cycles (hose only)

#### Hose Tails:

Pirtek 'S7' Series (refer Table for Die)

Lay line example: White text on the black hose. See Approvals above.

SYN FLEX® AS1869/D—W.P. 2.6 MPA—1997—10MM—SYN FLEX—AGH-T06 AGA 4805

Product Code	Nominal ID			Max OD mm	Pressure bar		Min bend radius mm	Weight Kg/ 100m	Synflex Die and Hose Tail Combination	
	DN	in	mm		working	min burst			Die 4540-	Series
3833-05	8	5/16	7.9	15.1	26	689 †	44	10.3	305	S7
3833-06	10	3/8	9.5	16.8	26	620 †	51	14.1	306	S7

† Note that the stated maximum Working Pressure is as stipulated by AS 1869 for use in accordance with that Standard. The stated minimum burst pressure applies only under laboratory test conditions using non gaseous fluid.

# 3840



## Non-conductive high pressure

### Construction

**Working Pressures:**  
3500-5000 psi (241-345 bar)

**Inner Tube:** smooth seamless nylon

**Reinforcement:** braided high tensile aramid fibre (Kevlar)

**Cover:** Orange non stick non-perforated polyurethane

### Applications

General hydraulic systems that may contact high voltage sources.  
Aerial equipment.  
Mobile hydraulics.  
Rescue apparatus and tools.

**Temperature Range:**  
-40°C up to +100°C  
except 66°C with water based and fire resistant fluids

**Features:**  
SAE J517 non conductive hose construction. Less than 50 microamperes leakage when subjected to 246000 volts/metre for 5 minutes.

SAE 100 R8 performance with SAE 100 R7 dimensions for hose tails versatility

Must not be used over sheaves.

### Reference Specifications

SAE 100 R8  
SAE J517 non-conductive construction

**Impulse Testing:**  
Hoses are tested to withstand 200 000 impulse cycles (hose only)

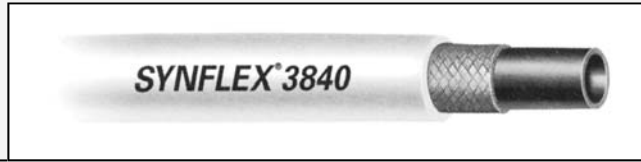
**Hose Tails:**  
Pirtek 'S7' Series (refer Table for Die)

Also available as twin line Product Code 3840X2

Product Code	Nominal ID			Max OD per line mm	Pressure bar		Min bend radius mm	Weight Kg/ 100m	Synflex Die and Hose Tail Combination	
	DN	in	mm		working	min burst			Die 4540-	Series
3840-04	6	1/4	6.4	13.5	345	1379	51	11.8	304	S7
3840-06	10	3/8	9.5	16.9	276	1103	64	15.8	306	S7
3840-08	12	1/2	12.7	21.3	241	965	102	21.7	308	S7
3840X2-04	6	1/4	6.4	13.5	345	1379	51	23.6	304	S7

## 3E80

## Non-conductive high pressure

**Construction**

**Working Pressures:**  
2000-5000 psi (138-345 bar)

**Inner Tube:** smooth seamless nylon

**Reinforcement:** braided synthetic fibre

**Cover:** Orange non stick non-perforated polyurethane

**Applications**

General hydraulic systems that may contact high voltage sources.  
Aerial equipment.  
Mobile hydraulics.  
Rescue apparatus and tools.

**Temperature Range:**

-40°C up to +100°C  
except 66°C with water based and fire resistant fluids

**Features:**

SAE J517 non conductive hose construction.

Less than 50 microamperes leakage when subjected to 246000 volts/metre for 5 minutes.

Long life for impulse cycling and flexing.

**Approvals:**

Lay line example may not be a true indication of current status. Refer Pirtek for current information.

**Reference Specifications**

SAE 100 R8  
SAE J517 non-conductive construction

**Impulse Testing:**

Hoses are tested to withstand 200 000 impulse cycles (hose only)

**Hose Tails:**

Pirtek 'S8' Series (refer Table for Die)

Lay line example: Black text on the orange hose. See Approvals above.

SYN FLEX® 3E80-06 SAE 100R8 3/8" W.P 4000 P.S.I. (276 BAR) NON CONDUCTIVE FURON

Product Code	Nominal ID			Max OD mm	Pressure bar		Min bend radius mm	Weight Kg/ 100m	Synflex Die and Hose Tail Combination	
	DN	in	mm		working	min burst			Die 4540-	Series
3E80-04	6	1/4	6.4	15.9	345	1379	51	17.6	H04	S8
3E80-06	10	3/8	9.5	19.5	276	1103	64	22.0	H06	S8
3E80-08	12	1/2	12.7	22.7	241	965	102	28.3	H08	S8

# 3R80

## High pressure hose



### Construction

**Working Pressures:**  
2000-5000 psi (138-345 bar)

**Inner Tube:** smooth seamless nylon

**Reinforcement:** braided synthetic fibre

**Cover:** Black non stick perforated polyurethane

### Applications

General hydraulic systems , hydraulic tools, mobile equipment.

High pressure pneumatic systems. Mobile hydraulics.

#### Temperature Range:

-40°C up to +100°C except 66°C with water based and fire resistant fluids

#### Features:

Long life for impulse cycling and flexing.

#### Approvals:

Lay line example may not be a true indication of current status. Refer Pirtek for current information.

### Reference Specifications

SAE 100 R8

#### Impulse Testing:

Hoses are tested to withstand 200 000 impulse cycles (hose only)

#### Hose Tails:

Pirtek 'S8' Series (refer Table for Die)

Lay line example: White text on the black hose. See Approvals above

SYN FLEX® 3R80-08 SAE 100R8 1/2" W.P 3500 P.S.I. (241 BAR) SAINT GOBAIN

Product Code	Nominal ID			Max OD mm	Pressure bar		Min bend radius mm	Weight Kg/ 100m	Synflex Die and Hose Tail Combination	
	DN	in	mm		working	min burst			Die 4540-	Series
3R80-03	5	3/16	4.8	13.1	345	1379	38			
3R80-04	6	1/4	6.4	15.9	345	1379	51	17.6	H04	S8
3R80-06	10	3/8	9.5	19.5	276	1103	64	22.0	H06	S8
3R80-08	12	1/2	12.7	22.7	241	965	102	28.3	H08	S8
3R80-12	19	3/4	19.1	28.9	155	620	165	38.1	H12	S8
3R80-16	25	1	25.4	37.4	138	552	254	57.3	H016	S8

# 3V10

## Very high pressure hose



### Construction

**Working Pressure:**  
8000—10000 psi (551–689 bar)

**Inner Tube:** smooth seamless nylon

**Reinforcement:** spiralled high tensile aramid fibre (Kevlar)

**Cover:** Black non stick perforated polyurethane

### Applications

High pressure hydraulic tools  
Rescue equipment and tools  
High pressure test equipment

**Temperature Range:**  
-54°C up to +94°C including water based and fire resistant fluids

### Reference Specifications

Nil

**Impulse Testing:**  
Hoses are tested to withstand 200 000 impulse cycles (hose only)

#### Hose Tails:

Pirtek 'SV' Series  
Special procedures apply.  
Guards and warning tags are required on the completed assembly.

Assemblies only to be made by trained personnel listed on the Qualified Personnel Register.

Product Code	Nominal ID			Max OD per line mm	Pressure bar		Min bend radius mm	Weight Kg/100m	Synflex Die and Hose Tail Combination	
	DN	in	mm		working	min burst			Die	Series
3V10-03 †	5	3/16	4.8	13.2	689	2758	38	12.1	Assembly by accredited people only.	
3V10-04 †	6	1/4	6.4	15.1	689	2758	64	15.8		
3V10-06 †	10	3/8	9.5	19.8	551	2205	76	24.4		



3V10 hose assemblies are available only as completed assemblies from accredited assemblers.

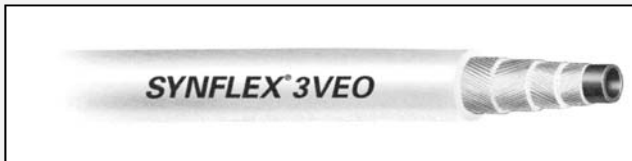
Each assembly comprises :

- 3V10 hose
- Pirtek SV Series couplings
- Hose guard

† Non-standard product. Available to special order

# 3VEO

## Non conductive jacking hose



### Construction

**Working Pressure:**  
8000—10000 psi (551–689 bar)

**Inner Tube:** smooth seamless nylon

**Reinforcement:** spiralled high tensile aramid fibre (Kevlar)

**Cover:** Orange non stick non-perforated polyurethane. (See note)

### Applications

General hydraulic systems that may contact high voltage sources.

Aerial equipment.  
Mobile hydraulics.  
Rescue apparatus and tools.

**Temperature Range:**  
-40°C up to +66°C

**Features:**  
Compact size  
Low elongation  
SAE J517 non conductive hose construction. Less than 50 microamperes leakage when subjected to 246000 volts/ metre for 5 minutes.

### Approvals:

Lay line example may not be a true indication of current status. Refer Pirtek for current information.

### Reference Specifications

ISO 7751:1991

### Impulse Testing:

Hoses are tested to withstand 200 000 impulse cycles (hose only)

### Hose Tails:

Pirtek 'SV' Series

Special procedures apply.  
Guards and warning tags are required on the completed assembly.

Assemblies only to be made by trained personnel listed on the Qualified Personnel Register. Available also with black cover to special order.

Lay line example: Black text on the orange hose. See Approvals above.

SYNFLEX®3VEO-04 SAE 1/4" I.D. W.P 10,000 P.S.I. (690 BAR) (NON CONDUCTIVE) PAT. NO. 4343333

Product Code	Nominal ID			Max OD mm	Pressure bar		Min bend radius mm	Weight Kg/ 100m	Synflex Die and Hose Tail Combination	
	DN	in	mm		work- ing	min burst			Die	Series
3VEO-04	6	1/4	6.4	15.4	689	2758	64	15.8	Assembly by accredited people only.	
3VEO-06	10	3/8	9.5	20.1	551	2205	76	24.4		



3VEO hose assemblies are available only as completed assemblies from accredited assemblers. Each assembly comprises :

- 3VEO hose
- Pirtek SV Series couplings
- Hose guard
- Warning Tag

3VEO-04 assemblies complete with 3/8" NPT male ends are available in 3 standard configurations:

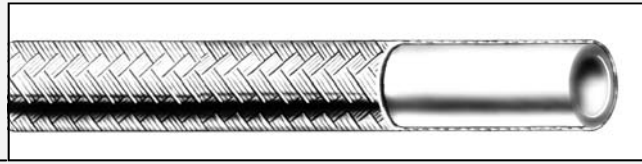
3VEO04-06-2	2 meters long
3VEO04-06-4	4 meters long
3VEO04-06-6	6 meters long



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# STH

## PTFE (TEFLON) hose



### Construction

**Working Pressure:**  
600 -1500 psi (41-103 bar)

**Inner Tube:** extruded seamless Teflon

**Reinforcement:** AISI 304 stainless steel single wire braid

**Cover:** The reinforcement braid serves as the outer cover.

### Applications

Medium pressure and laundry equipment. Plastic moulding presses.

Steam and compressor discharge.

**Temperature Range:**

-55°C up to +240°C (see graph below)

**Features:** A graphite impregnated (black) Teflon liner is available to special order for applications requiring a core tube capable of safely conducting static electricity. Consult Pirtek for details.

### Reference Specifications

SAE 100 R14

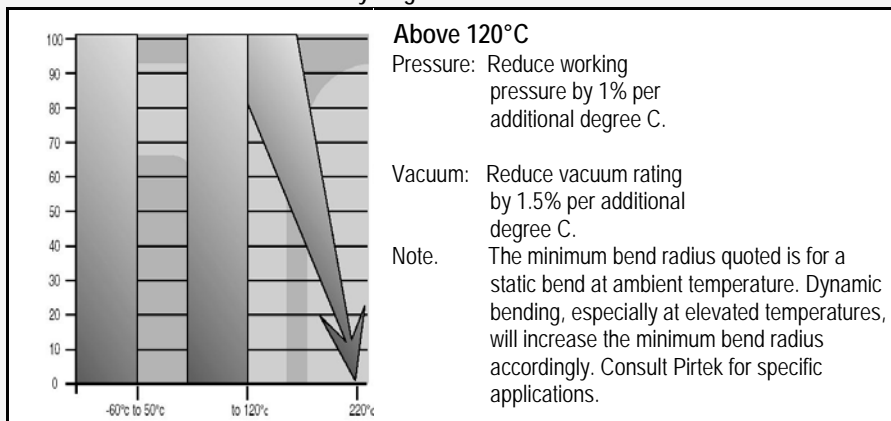
**Impulse Testing:**  
No information available

**Hose Tails:**

Pirtek 'T' Series

Product Code	Nominal ID		OD mm	Wall Thick- ness mm	Pressure bar		Min bend radius mm	Weight Kg/ 100m
	in	mm			work- ing	min burst		
STH-02	1/8	3.4	6.1	0.76	103	827	38	
STH-03	3/16	4.9	7.8	0.76	103	689	51	
STH-04	1/4	6.4	9.3	0.76	103	621	76	
STH-05	5/16	8.0	11	0.76	103	552	102	
STH-06	3/8	9.5	12.7	0.76	103	483	127	
STH-07 †	7/16	10.5	13.6	0.76	69	414	133	
STH-08	1/2	12.8	16.1	0.76	55	414	165	
STH-10	5/8	15.9	19.4	0.76	55	345	197	
STH-12	3/4	19.0	22.2	0.89	55	276	229	
STH-14 †	7/8	22.2	25.8	0.89	55	241	229	
STH-16	1	25.4	28.8	0.89	55	241	305	
STH-18 †	1 1/8	28.6	32.7	1.14	41	172	406	

Not recommended for steam / cold water recycling.



† Non-standard product. Available to special order



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Rev. 2.3





# CHEMICAL COMPATIBILITY CHART

	Rubber Hoses				Thermoplastic				
	IOFS / 100R4 R1AT, R2AT R5, R5T, R5HT R6, R3, MPH C21, C25, C35, C42 JBF40	XT3 XT5	WB900 WB1100	JW210 JW400	Teflon STH	Nylon 3130 3E80 3490 3R80 3730 3VEO 3800	Poly- olefin 34PW	Polyes- ter 30CT 37AL	Ure- thane Synflex cover material (except 30CT)
Acetaldehyde	-	-	-	-	G	G	C	G	G
Acetate Acid, Dilute (10%)	-	U	-	-	-	-	-	-	-
Acetic Acid 10%-30%	C	-	-	-	G	C	G	C	C
Acetic Acid, Glacial	-	U	-	-	G	C	G	C	C
Acetic Anhydride	C	-	-	-	G	C	G	C	C
Acetone	U	C	U	U	G	G	C	C	U
Acetyl Bromide	-	-	-	-	-	U	U	U	U
Acetyl Chloride	-	-	-	-	-	U	U	U	U
Acetylene	C	C	G	G	G	G	G	G	G
Acrylonitrile	-	-	-	-	G	-	-	-	-
Air (< 290 psi or 2000 kPa)	G	-	-	-	G	G	G	G	G
Alcohols	-	-	-	-	-	G	G	C	C
Aluminium	-	-	-	-	G	-	-	-	-
Aluminium Acetate	-	-	-	-	G	-	-	-	-
Aluminium Bromide	-	-	-	-	G	-	-	-	-
Aluminium Chloride	-	C	-	-	G	U	G	-	-
Aluminium Fluoride 20%	-	C	-	-	G	-	-	-	-
Aluminium Hydroxide	-	-	-	-	G	-	-	-	-
Aluminium Nitrate	-	-	-	-	G	-	-	-	-
Aluminium Sulphate	-	C	-	-	G	G	G	-	-
Aluminium Salts	-	-	-	-	G	-	-	-	-
Aluminium Sulphate	-	-	-	-	G	-	-	-	-
Alums (Al. & Potassium Sulphate)	-	C	-	-	G	U	G	-	-
Ammonia Gas, Cold	G	C	-	-	G	U	U	U	U
Ammonia Gas, Hot	C	-	C	C	G	U	U	U	U
Ammonia, Liquid	G	G	G	G	G	C	-	G	C
Ammonia, Liquid (Anhydrous)	-	U	-	-	G	-	-	-	-
Ammonium Carbonate	-	-	-	-	-	-	-	-	-
Ammonium Chloride	-	U	-	-	G	G	G	G	G
Ammonium Hydroxide	G	C	-	-	G	U	U	U	U
Ammonium Metaphosphate	-	-	-	-	G	-	-	-	-
Ammonium Nitrate	-	C	-	-	G	G	G	C	G
Ammonium Nitrite	-	-	-	-	C	-	-	-	-

G : Good, C : Conditional (hose life adversely affected under some service conditions), U : Unacceptable, - : Testing recommended or no data available.  
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# CHEMICAL COMPATIBILITY CHART

HYDRAULIC HOSES

CHEMICAL COMPATIBILITY CHART

	Rubber Hoses				Thermoplastic				
	IOFS / 100R4 R1AT, R2AT R5, R5T, R5HT R6, R3, MPH C21, C25, C35, C42 JBF40	XT3 XT5	WB900 WB1100	JW210 JW400	Teflon  STH	Nylon 3130 3E80 3490 3R80 3730 3VEO 3800	Poly- olefin 34PW	Polyes- ter 30CT 37AL	Ure- thane Synflex cover material (except 30CT)
Ammonium Persulphate	-	-	-	-	C	-	-	-	-
Ammonium Phosphate	-	U	-	-	G	G	G	C	G
Ammonium Sulphate	-	C	-	-	G	G	G	C	G
Ammonium Thiocyanate	-	-	-	-	G	-	-	-	-
Amyl Acetate	-	U	U	U	G	G	U	C	C
Amyl Alcohol	-	U	-	-	G	G	G	G	G
Amyl Chloride	-	-	-	-	G	-	-	-	-
Amyl Chloronaphthalene	-	-	-	-	G	-	-	-	-
Amyl Napthalene	-	-	-	-	G	-	-	-	-
Anethole	-	-	-	-	-	G	-	-	-
Aniline, Aniline Oil	-	U	U	U	G	C	U	U	U
Aniline Dyes	-	U	-	-	G	-	-	-	-
Aniline Hydrochloride	-	-	-	-	G	-	-	-	-
Animal Fats / Oils	-	-	G	G	-	G	U	G	G
Antimony Salts	-	-	-	-	-	G	G	G	G
Apoclor Monsanto	-	-	-	-	-	G	C	C	C
(Chlorinated Hydrocarbon Hydraulic Fluid)									
Aqua Regia	-	-	-	G	-	-	-	-	-
Aromatic Hydrocarbons	-	-	-	-	-	G	U	C	C
Arsenic Acid	-	-	-	-	G	-	-	-	-
Arsenic Salts	-	-	-	-	G	G	G	G	G
Askarel	-	-	-	-	G	-	-	-	-
Asphalt up to 180' F	-	U	-	-	G	G	G	G	G
Auto Transmission Fluid	-	-	-	-	G	G	-	G	G
Barium Carbonate	-	-	-	-	G	-	-	-	-
Barium Chloride	-	C	-	-	G	G	G	G	G
Barium Hydroxide	-	C	-	-	G	-	-	-	-
Barium Salts	-	-	-	-	-	G	G	G	G
Barium Sulphate	-	-	-	-	G	-	-	-	-
Barium Sulphide	-	U	-	-	G	-	-	-	-
Basic Copper Arsenate	-	-	-	-	-	G	G	G	G
Beer	-	U	-	-	G	-	-	-	-
Beet Sugar Liquors	-	-	-	-	G	-	-	-	-

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# CHEMICAL COMPATIBILITY CHART

	Rubber Hoses				Thermoplastic				
	IOFS / 100R4 R1AT, R2AT R5, R5T, R5HT R6, R3, MPH C21, C25, C35, C42 JBF40	XT3 XT5	WB900 WB1100	JW210 JW400	Teflon  STH	Nylon 3130 3E80 3490 3R80 3730 3VEO 3800	Poly- olefin  34PW	Polyes- ter  30CT 37AL	Ure- thane  Synflex cover material (except 30CT)
Benzaldehyde	-	-	-	-	G	G	C	G	G
Benzene, Benzol	U	U	U	U	G	G	U	C	C
Benzenesulphonic Acid	-	-	-	-	C	-	-	-	-
Benzine (Petroleum Ether)	-	-	-	-	G	G	U	G	G
Benzine (Petroleum Naphtha)	-	-	-	-	-	-	-	-	-
Benzoic Acid	-	-	-	-	-	G	G	U	U
Benzyl Alcohol	-	-	-	-	G	C	C	C	C
Benzyl Benzoate	-	-	-	-	G	-	-	-	-
Benzyl Chloride	-	-	-	-	G	-	-	-	-
Bismuth Carbonate	-	-	-	-	G	-	-	-	-
Black Sulphate Liquor	-	-	-	-	G	-	-	-	-
Blast Furnace Gas	-	-	-	-	G	-	-	-	-
Borac Acid	-	-	-	-	G	-	-	-	-
Borax	-	C	-	-	G	G	G	G	G
Bordeaux Mixture	-	-	-	-	G	G	G	G	G
Boric Acid	G	U	-	-	G	G	G	G	G
Boric Copper Sulphate	-	-	-	-	-	G	G	G	G
Brake Oil, Dot 3	C	C	-	-	C	G	-	G	-
Brake Oil, Dot 4	C	C	-	-	C	G	-	G	-
Brake Oil, Dot 5	G	C	-	-	G	G	-	G	G
Brine	G	U	-	-	G	G	G	G	G
Bromine	U	U	-	-	G	U	U	U	U
Bunker Oil	-	-	-	-	G	-	-	-	-
Butadiene	-	-	-	-	G	-	-	-	-
Butane	C	-	C	C	G	G	-	G	-
Butter oil	-	-	-	-	G	G	G	G	G
Butyl Acetate	U	U	U	U	G	G	U	C	C
Butyl Alcohol, Butanol	-	C	G	G	G	G	G	G	G
Butyl Amine	-	-	-	-	-	-	-	-	-
Butyl Carbitol	-	-	-	-	G	-	-	-	-
Butyl Mercaptan	-	-	-	-	G	-	-	-	-
Butyl Stearate	-	-	-	-	G	-	-	-	-
Butyraldehyde	-	-	-	-	G	-	-	-	-

G : Good, C : Conditional (hose life adversely affected under some service conditions), U : Unacceptable, - : Testing recommended or no data available.  
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# CHEMICAL COMPATIBILITY CHART

HYDRAULIC HOSES

CHEMICAL COMPATIBILITY CHART

	Rubber Hoses				Thermoplastic				
	IOFS / 100R4 R1AT, R2AT R5, R5T, R5HT R6, R3, MPH C21, C25, C35, C42 JBF40	XT3 XT5	WB900 WB1100	JW210 JW400	Teflon STH	Nylon 3130 3E80 3490 3R80 3730 3VE0 3800	Poly- olefin 34PW	Polyes- ter 30CT 37AL	Ure- thane Synflex cover material (except 30CT)
Butyric Acid	-	-	-	-	G	-	-	-	-
Calcium Acetate	-	-	-	-	G	-	-	-	-
Calcium Arsenate	-	-	-	-	-	G	G	G	G
Calcium Bisulphate	-	-	-	-	G	-	-	-	-
Calcium Bisulphide	-	-	-	-	-	G	G	G	G
Calcium Bisulphite	-	U	-	-	G	-	-	-	-
Calcium Carbonate	-	-	-	-	G	-	-	-	-
Calcium Chlorate	-	-	-	-	G	-	-	-	-
Calcium Chloride Solutions	-	C	-	-	G	G	G	G	G
Calcium Hydroxide (<20%)	-	G	-	-	G	G	G	C	C
Calcium Hypochlorite	-	U	-	-	G	G	G	C	C
Calcium Nitrate	-	-	-	-	G	-	-	-	-
Calcium Salts	-	-	-	-	-	G	G	G	G
Calcium Silicate	-	-	-	-	G	-	-	-	-
Calcium Sulphate	-	-	-	-	G	-	-	-	-
Calcium Sulphide	-	-	-	-	G	-	-	-	-
Caliche Liquors (Chile Saltpetre)	-	G	-	-	-	-	-	-	-
Cane Sugar Liquors	-	-	-	-	G	-	-	-	-
Carbolic Acid Phenol	-	U	-	-	G	U	G	U	U
Carbon Bisulphide	-	-	-	-	-	G	U	C	C
Carbon Dioxide	G	G	G	G	G	G	-	G	-
Carbon Disulphide	U	U	U	U	-	G	U	C	C
Carbonic Acid	-	U	-	-	G	G	G	C	C
Carbon Monoxide (Hot)	C	C	-	-	G	G	G	G	G
Carbon Tetrachloride	U	U	-	-	G	G	U	U	U
Carbonates	C	-	C	C	-	-	-	-	-
Castor Oil	-	-	-	-	G	G	G	C	C
Caustic Potash (<20%)	-	-	-	-	-	G	G	C	C
Caustic Potash (>20%)	-	-	-	-	-	C	G	C	C
Caustic Soda (<20%)	G	-	G	G	G	G	G	C	C
Caustic Soda (>20%)	-	U	-	-	-	C	G	C	C
Cellosolve Acetate	-	U	-	-	G	-	-	-	-
Cellosolve Butyl	-	-	-	G	-	-	-	-	-

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# CHEMICAL COMPATIBILITY CHART

	Rubber Hoses				Thermoplastic				
	IOFS / 100R4 R1AT, R2AT R5, R5T, R5HT R6, R3, MPH C21, C25, C35, C42 JBF40	XT3 XT5	WB900 WB1100	JW210 JW400	Teflon  STH	Nylon  3130 3E80 3490 3R80 3730 3VEO 3800	Poly- olefin  34PW	Polyes- ter  30CT 37AL	Ure- thane  Synflex cover material (except 30CT)
Cellulubes Celanese (Phosphate Ester Base)	-	-	-	-	G	G	U	U	U
Cellusolves Union Carbide	-	-	-	-	-	G	U	U	U
China Wood Oil (Tung)	-	-	-	-	-	G	U	U	U
Chloracetic Acid	-	G	-	-	G	-	-	-	-
Chlordane	-	U	-	-	-	U	C	U	U
Chlorinated Solvents	U	U	U	U	-	G	C	U	U
Chlorine (Dry)	U	C	U	U	G	U	U	U	U
Chlorine (Water) (<20%)	-	U	-	-	G	C	G	U	C
Chloroacetic Acid	-	-	-	-	G	-	-	-	-
Chlorobenzene	-	-	-	-	G	-	-	-	-
Chlorobromomethane	-	-	-	-	G	-	-	-	-
Chloroform	U	U	U	U	G	G	U	U	U
Chloronaphthalene	-	-	-	-	G	-	-	-	-
Chlorosulphonic Acid	U	U	-	-	G	U	-	-	G
Chlorotoluene	-	-	-	-	G	-	-	-	-
Chromic Acid 30%	U	U	-	-	G	U	C	U	U
Chromium Salts	-	-	-	-	-	G	G	G	G
Cider	-	-	-	-	-	G	G	G	G
Citric Acid	G	U	-	-	G	G	G	C	C
Coal Gas	-	-	-	-	G	G	G	G	G
Cod Liver Oil	-	-	-	-	G	-	-	-	-
Coke Oven Gas	-	C	-	-	G	G	G	G	G
Compressed Air (< 290 psi or 2000 kPa)	G	-	-	-	G	G	G	G	G
Copper Chloride	-	U	-	-	G	C	G	G	G
Copper Chloride A	-	-	-	-	U	-	-	-	-
Copper Sulphate	-	U	-	-	G	G	G	G	G
Corn Oil	-	G	-	-	G	G	G	G	G
Corn Syrup	-	-	-	-	G	-	-	-	-
Cottonseed Oil	G	G	-	-	G	G	G	G	G
Creosote	-	U	-	-	G	U	C	U	U

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# CHEMICAL COMPATIBILITY CHART

HYDRAULIC HOSES

CHEMICAL COMPATIBILITY CHART

	Rubber Hoses				Thermoplastic				
	IOFS / 100R4 R1AT, R2AT R5, R5T, R5HT R6, R3, MPH C21, C25, C35, C42 JBF40	XT3 XT5	WB900 WB1100	JW210 JW400	Teflon  STH	Nylon 3130 3E80 3490 3R80 3730 3VEO 3800		Poly- olefin 34PW	Polyes- ter 30CT 37AL
Cresols	U	-	-	-	G	U	C	U	U
Cresylic Acid	-	-	-	-	-	U	C	U	U
Crude Oil	G	U	C	C	G	G	U	C	G
Crude Wax	-	-	-	-	G	-	-	-	-
Cupric Sulphate	-	-	-	-	-	C	G	C	C
Cutting Oil White & Bagley No. 2190	-	-	-	-	G	G	-	-	-
Cyclohexane	C	-	C	C	G	G	-	G	G
Cyclohexanone	-	-	-	-	G	G	U	G	G
Cymene	-	-	-	-	G	-	-	-	-
Decalin	-	-	-	-	G	G	-	-	-
Denatured Alcohol	-	-	-	-	G	-	-	-	-
Diacetone	-	-	-	-	G	-	-	-	-
Diacetone Alcohol	-	-	-	-	G	G	G	C	C
Diammonium Phosphate	-	-	-	-	-	G	G	C	U
Dibenzyl Ether	-	-	-	-	G	-	-	-	-
Dibutyl Ether	-	-	-	-	G	-	-	-	-
Dibutyl Phthalate	-	-	-	-	G	G	C	C	C
Dibutyl Sebacate	-	-	-	-	G	-	-	-	-
Dichlorobenzene	-	-	-	-	G	-	-	-	-
Diesel Fuel	G	C	C	C	G	G	C	G	G
Diethanolamine (20% conc.)	-	-	-	-	G	G	-	C	C
Diethyl Ether	-	-	-	-	G	G	G	C	C
Diethylene Glycol	-	-	-	-	G	-	-	-	-
Diethyl Phthalate	-	-	-	-	G	-	-	-	-
Diethyl Sebacate	-	-	-	-	G	-	-	-	-
Di-Isobutylene	-	-	-	-	U	-	-	-	-
Di-Isopropyl Ketone	-	-	-	-	G	-	-	-	-
Dimethyl Aniline	-	-	-	-	G	-	-	-	-
Dimethyl Phthalate	-	-	-	-	G	-	-	-	-
Dimethyl Formamide	-	-	-	-	U	-	-	-	-
Diocetyl Phosphate	-	-	-	-	-	G	U	C	C
Diocetyl Phthalate	-	-	-	-	G	G	U	C	C

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	Rubber Hoses				Thermoplastic				
	IOFS / 100R4 R1AT, R2AT R5, R5T, R5HT R6, R3, MPH C21, C25, C35, C42 JBF40	XT3 XT5	WB900 WB1100	JW210 JW400	Teflon  STH	Nylon 3130 3E80 3490 3R80 3730 3VEO 3800	Poly- olefin 34PW	Polyes- ter 30CT 37AL	Ure- thane Synflex cover material (except 30CT)
Dioxane	-	-	-	-	G	-	-	-	-
Dipentene	-	-	-	-	G	-	-	-	-
Dowtherm A and E	-	-	-	-	-	-	-	-	-
Enamels	-	-	-	-	-	G	G	G	G
Essential Oils	-	-	-	-	-	G	C	G	G
Ethanol	-	-	-	-	-	G	C	C	C
Ethanolamine	-	-	-	-	G	-	-	-	-
Ether	C	U	C	C	G	G	G	C	C
Ethyl Acetate	U	U	U	U	G	G	G	C	C
Ethyl Acetoacetate	-	-	-	-	G	-	-	-	-
Ethyl Acrylate	-	-	-	-	-	-	-	-	-
Ethyl Alcohol	G	C	G	G	G	G	G	C	C
Ethyl Cellulose	-	U	-	-	-	-	-	-	-
Ethyl Benzene	-	-	-	-	G	-	-	-	-
Ethyl Chloride	-	C	-	-	G	G	U	U	U
Ethyl Ether	-	-	-	-	G	-	-	-	-
Ethyl Mercaptan	-	-	-	-	G	-	-	-	-
Ethyl Pentochlorobenzene	-	-	-	-	G	-	-	-	-
Ethyl Silicate	-	-	-	-	G	-	-	-	-
Ethylene Cellulose	G	U	G	G	G	-	-	-	-
Ethylene Chlorhydrin	-	-	-	-	G	U	-	U	U
Ethylene Chloride	C	-	U	U	G	-	-	-	-
Ethylene Diamine	-	-	-	-	G	-	-	-	-
Ethylene Dichloride	-	U	-	-	G	G	C	U	U
Ethylene Glycol	G	G	G	G	G	G	G	G	C
Ethylene Oxide	U	-	U	U	-	G	C	C	C
Fatty Acid	-	-	-	-	G	G	U	G	G
Ferric Chloride	-	U	-	-	G	C	G	-	-
Ferric Nitrate	-	-	-	-	G	-	-	-	-
Ferric Sulphate	-	U	-	-	G	G	G	G	G
Ferrous Chloride	-	-	-	-	G	-	-	-	-
Ferrous Nitrate	-	-	-	-	G	-	-	-	-
Ferrous Salt Solutions	-	U	-	-	-	-	-	-	-

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HYDRAULIC HOSES

CHEMICAL COMPATIBILITY CHART

	Rubber Hoses				Thermoplastic				
	IOFS / 100R4 R1AT, R2AT R5, R5T, R5HT R6, R3, MPH C21, C25, C35, C42 JBF40	XT3 XT5	WB900 WB1100	JW210 JW400	Teflon  STH	Nylon  3130 3E80 3490 3R80 3730 3VEO 3800	Poly- olefin  34PW	Polyes- ter  30CT 37AL	Ure- thane  Synflex cover material (except 30CT)
Ferrous Sulphate	-	-	-	-	G	-	-	-	-
Fluoroboric Acid	-	-	-	-	G	-	G	U	U
Fluorine	U	-	U	U	-	U	U	U	U
Fluorosilicic	-	-	-	-	-	-	G	-	U
Formaldehyde	G	U	G	G	G	G	G	C	C
Formic Acid	C	U	-	-	G	U	C	U	U
Fruit Juices	-	-	-	-	-	G	G	G	G
Fuel Oil	G	C	G	C	G	G	U	G	G
Fuel Oil (Aromatic Gas) 100 Octane	-	-	-	-	-	G	C	G	G
Fumaric Acid	-	-	-	-	-	-	-	-	-
Furan Furfura	-	-	-	-	G	-	-	-	-
Furfural	U	C	-	-	G	-	-	-	-
Furfuryl Alcohol	-	-	-	-	-	G	G	G	G
Galic Acid (< 20%)	-	-	-	-	G	G	G	C	C
Gas (Natural)	-	-	-	-	G	G	G	G	G
Gas Oil	-	-	-	-	-	G	U	C	G
Gaseous Hydrogen	C	-	C	C	G	G	G	G	G
Gasoline	C	U	C	G	G	G	U	G	G
Gasoline (Aromatic)	-	-	-	-	-	G	U	G	G
Gasoline (Non-Aromatic)	-	-	-	-	-	G	U	G	G
Gelatin	-	G	-	-	-	G	G	G	G
Glauber's Salt	-	-	-	-	-	-	-	-	-
Glucose	-	G	-	-	G	G	G	G	G
Glue (Depends on type)	-	G	-	-	G	G	G	G	G
Glycerine, Glycerol	G	G	G	G	G	G	G	G	G
Glycol to 66°C	G	-	G	G	G	G	G	G	C
Grease, Petroleum	G	C	C	-	G	G	C	G	G
Green Sulphate Liquor	-	U	-	-	G	-	-	-	-
Heavy Water (D20)	G	-	-	-	G	G	-	G	-
Heptane	U	G	-	-	G	G	U	G	G
n-Hexaldehyde	-	-	-	-	G	-	-	-	-
Hexane	U	G	G	G	G	G	U	G	G

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# CHEMICAL COMPATIBILITY CHART

	Rubber Hoses				Thermoplastic				
	IOFS / 100R4 R1AT, R2AT R5, R5T, R5HT R6, R3, MPH C21, C25, C35, C42 JBF40	XT3 XT5	WB900 WB1100	JW210 JW400	Teflon  STH	Nylon 3130 3E80 3490 3R80 3730 3VE0 3800	Poly- olefin 34PW	Polys- ter 30CT 37AL	Ure- thane Synflex cover material (except 30CT)
Hexene	-	-	-	-	G	-	-	-	-
Hexyl Alcohol	-	-	-	-	G	-	-	-	-
<b>Hydraulic Fluids and Lube Oils</b>									
<i>Chlorine Base</i>	U	-	-	-	G	G	-	-	-
<i>Straight Petroleum Base</i>	G	G	G	U	G	G	U	G	G
<i>Water &amp; Petroleum Emulsion (FR)</i>	-	C	-	-	G	-	-	-	-
<i>Water &amp; Glycol Solution to 85°C (Hydrolube Union Carbide)</i>	C	G	-	-	G	G	G	C	G
<i>Houghto Safe Houghton 600 Series (Water Glycol Base)</i>	C	G	-	-	G	G	G	C	G
<i>Water &amp; Oil Emulsion (Irus Shell 902)</i>	C	-	G	G	G	G	C	G	G
<i>Straight Phosphate Ester (FR)</i>	U	U	U	U	G	G	U	C	C
<i>Houghto Safe Houghton 1000 Series Phosphate Ester Base</i>	U	-	U	U	G	G	U	C	C
<i>Phosphate Ester &amp; Petroleum Oil Blend</i>	U	-	U	U	G	G	U	C	C
<i>Ester Blend (MIL-L-7808)</i>	U	U	U	U	-	-	-	-	-
<i>Silicone Oils</i>	G	G	G	G	G	-	-	-	-
<i>Sodium Silicate Base</i>	G	-	-	-	G	-	-	-	-
<i>Diester Base</i>	-	-	-	-	-	G	U	C	C
<i>OS 45 Monsanto (Silicate Ester Base)</i>	-	-	-	-	-	G	U	C	C
Hydrobromic Acid	-	U	-	-	G	U	-	-	U
Hydrochloric Acid (10%)	-	U	-	-	G	G	G	U	C
Hydrochloric Acid (37%)	U	U	U	U	G	-	-	U	-
Hydrocyanic Acid	-	C	-	-	G	U	G	-	-
Hydrofluoric Acid, Concentrated	-	-	-	-	G	-	-	-	-
Hydrofluoric Acid, Cold	-	-	-	-	G	U	C	U	U
Hydrofluoric Acid, Hot	-	U	-	-	G	U	C	C	U
Hydrofluosilicic Acid	-	-	-	-	G	-	-	-	-
Hydrogen Gas	-	C	-	-	G	G	G	G	G
Hydrogen Peroxide (Conc.)	C	U	C	C	G	U	G	U	U
Hydrogen Peroxide (Dil.)	G	U	G	G	G	G	G	G	G
Hydrogen Sulphate, Gaseous	-	-	-	-	G	-	-	-	-
Hydroquinone	-	-	-	-	-	-	-	-	-

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	Rubber Hoses				Thermoplastic				
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Hydrogen Sulphide, Dry	U	U	-	-	G	U	-	-	U
Hydrogen Sulphide, Wet	G	U	-	-	G	C	G	C	-
Hydrogluosilic Acid	-	U	-	-	-	-	-	-	-
Isobutyl Alcohol	-	-	-	-	G	-	-	-	-
Isocyanates	-	-	-	-	-	G	G	G	G
Isooctane	-	-	-	-	G	-	-	-	-
Isopropyl Acetate	-	-	-	-	G	G	C	C	C
Isopropyl Alcohol	G	-	G	G	G	-	-	-	-
Isopropyl Ether	-	-	-	-	G	-	-	-	-
Kerosene	G	C	G	G	G	G	U	G	G
Ketones	-	-	-	-	-	G	G	C	C
Lacquer	U	U	-	-	G	-	-	-	-
Lacquer Solvents	-	U	-	-	G	G	G	C	C
Lactic Acid	-	U	-	-	G	G	C	-	-
Lard	-	-	-	-	G	G	G	G	G
Lead Acetate	-	-	-	-	G	-	-	-	-
Lead Arsenate	-	-	-	-	-	G	G	G	G
Lead Nitrate	-	-	-	-	-	-	-	-	-
Lead Sulphate	-	-	-	-	-	G	G	G	G
Lead Tetramethyl	-	-	-	-	-	G	-	G	G
Lime	-	-	-	-	-	G	G	G	G
Linoleic Acid	-	-	-	-	G	-	-	-	-
Linseed Cake	-	-	-	-	-	G	U	G	G
Linseed Oil	-	G	-	-	G	G	U	G	G
Liquid Oxygen	U	U	U	U	-	Refer to Pirtek			
LPG Liquid Petroleum Gas	C	-	C	C	-	-	-	-	-
Magnesium Chloride	-	U	-	-	G	G	G	G	G
Magnesium Hydroxide (<20%)	-	C	-	-	G	G	G	C	C
Magnesium Sulphate	-	G	-	-	G	G	G	G	G
Maleic Acid	-	-	-	-	G	G	G	C	C
Mercuric Chloride	-	C	-	-	G	G	G	G	G
Mercury	G	G	G	G	G	G	G	G	G
Mesityl Oxide	-	-	-	-	G	-	-	-	-

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Methane	-	-	-	-	-	G	-	G	G
Methyl Acetate	-	-	-	-	G	G	G	C	C
Methyl Acrylate	-	-	-	-	-	-	-	-	-
Methyl Alcohol, Methanol	-	C	-	-	G	G	G	C	C
Methyl Bromide	-	-	-	-	G	C	U	U	U
Methyl Butyl Ketone	-	-	-	-	-	-	-	-	-
Methyl Chloride, Cold	U	U	U	U	G	G	U	U	U
Methyl Ethyl Ketone (MEK)	U	U	U	U	G	G	G	C	C
Methyl Formate	-	-	-	-	G	-	-	-	-
Methyl Isobutyl Ketone	-	-	-	-	G	-	-	-	-
Methyl Isopropyl Ketone	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	-	-	-	-	-	G	G	C	C
Methyl Methacrylate	-	-	-	-	G	-	-	-	-
Methyl Salicylate	-	-	-	-	G	-	-	-	-
Methyl Sulphate	-	-	-	-	-	G	-	G	G
Methylene Chloride	-	-	-	-	G	-	-	-	-
Milk	-	-	-	-	G	G	G	G	G
Mineral Oil	G	-	G	G	G	G	U	G	G
Molasses	-	-	-	-	-	G	G	G	G
Monochlorobenzene	-	-	-	-	G	-	-	-	-
Monoethanolamine	-	-	-	-	-	-	-	-	-
Mustard	-	-	-	-	-	G	-	G	G
Naphta	G	C	G	G	G	G	U	C	C
Naphthalene	U	U	U	U	G	G	U	C	C
Napthenic Acid	-	-	-	-	G	-	-	-	-
Natural Gas	G	G	G	G	G	-	-	-	-
Nickel Chloride	-	U	-	-	G	U	G	U	-
Nickel Acetate	-	-	-	-	G	-	-	-	-
Nickel Sulphate	-	U	-	-	G	-	-	-	-
Nicotine	-	-	-	-	-	G	G	G	G
Niter Cake	-	-	-	-	-	-	-	-	-
Nitric Acid (< 20%)	U	U	U	U	G	C	G	C	C
Nitric Acid (>20%)	U	U	U	U	G	C	C	U	U

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Nitric Acid, Crude	U	U	U	U	G	-	-	U	-
Nitric Acid, Red Fuming	-	-	-	-	G	-	-	-	-
Nitrobenzene	U	U	U	U	G	G	U	U	U
Nitrogen / Argon Gaseous	C	-	-	-	G	G	G	G	G
Nitrous Oxide	-	-	-	-	-	G	U	G	G
Nitrogen Tetroxide	-	-	-	-	-	-	-	-	-
n-Octane	-	-	-	-	-	-	-	-	-
Octyl Alcohol	-	-	-	-	G	-	-	-	-
Oil of Turpentine	G	-	U	G	-	G	C	G	G
Oleic Acid	U	U	U	U	G	G	U	G	G
Oleum Spirits	-	U	-	-	-	-	-	-	-
Oxalic Acid (-30%)	U	C	U	U	G	G	G	C	C
Olive Oil	-	-	-	-	G	-	-	-	-
Oxygen Gaseous	-	-	-	-	G	Refer to Pirtek			
Oxygen, Liquid	U	U	U	U	-	Refer to Pirtek			
Ozone	-	-	-	-	G	G	U	G	G
Paint (Oil Base)	-	-	-	-	G	G	C	G	G
Paint Solvents (Oil Base)	-	-	-	-	G	G	C	C	C
Palmitic Acid	-	U	-	-	G	G	G	G	G
Peanut Oil	-	-	-	-	G	-	-	-	-
Pentane	-	-	-	-	-	G	U	G	G
Perchloroethylene	U	U	U	U	G	G	U	U	U
Perchloric Acid	-	-	-	-	G	U	G	U	U
Petroleum Oils (Refined)	-	-	-	-	G	G	C	G	G
Petroleum Oils (Sour)	-	-	-	-	G	G	C	C	G
Phenolates	-	-	-	-	-	C	C	C	G
Phenols (Carbolic Acid)	U	U	U	U	G	U	G	U	U
Phosphoric Acid (10%)	G	U	G	G	-	G	G	U	U
Phosphoric Acid (70%)	U	U	U	U	-	G	G	U	U
Picric Acid	-	-	-	-	G	-	-	-	-
Picric Acid, Solution	-	C	-	-	G	C	G	U	U
Picric Acid, Molten	-	U	-	-	G	-	-	-	-
Pinene	-	-	-	-	G	-	-	-	-

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# CHEMICAL COMPATIBILITY CHART

	Rubber Hoses				Thermoplastic				
	IOFS / 100R4 R1AT, R2AT R5, R5T, R5HT R6, R3, MPH C21, C25, C35, C42 JBF40	XT3 XT5	WB900 WB1100	JW210 JW400	Teflon  STH	Nylon  3130 3490 3730 3800 3E80 3R80 3VE0	Poly- olefin  34PW	Polyes- ter  30CT 37AL	Ure- thane  Synflex cover material (except 30CT)
Pine Oil	-	-	-	-	G	-	-	-	-
Plating Solution, Chrome	-	-	-	-	G	-	-	-	-
Potash (Potassium Hydroxide)	-	-	-	-	-	C	G	U	U
Potassium Acetate	-	-	-	-	G	-	-	-	-
Potassium Chloride	-	U	-	-	G	G	G	G	G
Potassium Cyanide	-	G	-	-	G	-	-	-	-
Potassium Dichromate	-	-	-	-	G	-	-	-	-
Potassium Hydroxide (Potash)	-	U	-	-	G	C	G	U	U
Potassium Hydroxide (50% conc.)	-	U	-	-	-	C	G	U	U
Potassium Nitrate	-	-	-	-	G	G	G	G	G
Potassium Permanganate (5% conc.)	-	-	-	-	-	U	U	U	U
Potassium Sulphate	-	G	-	-	G	G	G	G	G
Propane	-	-	-	-	G	G	G	G	G
Propyl Acetate	-	-	-	-	-	-	-	-	-
Propyl Alcohol	-	-	-	-	G	-	-	-	-
Pydraul (Stauffer) F-9,150, 600, 625 to 66°	-	-	-	-	-	G	U	C	C
Pyrethrum	-	-	-	-	-	G	G	G	G
Pyridine, 50%	-	-	-	-	G	C	G	C	G
<b>Refrigerant</b>									
Freon 12	U	C	U	U	G	G	C	C	C
Freon 13	U	-	U	U	-	G	C	C	C
Freon 22	U	-	U	U	-	G	C	C	C
Red Oil	-	-	-	-	G	-	-	-	-
Salicyclic Acid	-	-	-	-	-	-	-	-	-
Steam	U	-	U	U	G	-	-	-	-
Sea / Salt Water	G	-	G	G	G	G	G	G	G
Sewage	-	-	-	-	G	-	-	-	-
Silicone Greases	-	-	-	-	-	-	-	-	-
Silicone Oils	-	-	-	-	-	-	-	-	-
Silver Nitrate	-	-	-	-	G	-	-	-	-
Skydrol Monsanto 500, 7000	-	-	-	-	G	G	U	U	U
Soap Solution (conc.)	C	-	C	C	G	G	C	G	G
Soda, Soda Ash, Sodium Carbonate	G	-	G	G	-	G	G	G	G

G : Good, C : Conditional (hose life adversely affected under some service conditions), U : Unacceptable, - : Testing recommended or no data available.  
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This page is part of a complete catalogue containing technical and safety data.  
All data must be reviewed when selecting a product.  
Pirtek reserve the right to change technical specifications without notice.

# CHEMICAL COMPATIBILITY CHART

	Rubber Hoses				Thermoplastic				
	IOFS / 100R4 R1AT, R2AT R5, R5T, R5HT R6, R3, MPH C21, C25, C35, C42 JBF40	XT3 XT5	WB900 WB1100	JW210 JW400	Teflon  STH	Nylon 3130 3E80 3490 3R80 3730 3VEO 3800	Polyolefin 34PW	Polyester 30CT 37AL	Urethane Synflex cover material (except 30CT)
Soda Water	-	-	-	-	-	G	G	G	G
Sodium Acetate	-	-	-	-	G	-	-	-	-
Sodium Bicarbonate	-	-	-	-	G	G	G	G	G
Sodium Bisulphate	-	U	-	-	G	-	-	-	-
Sodium Bisulphite	-	-	-	-	-	G	G	G	G
Sodium Borate	-	-	-	-	G	G	G	G	G
Sodium Carbonate	-	-	-	-	-	G	G	G	G
Sodium Chloride	G	U	G	G	G	G	G	G	G
Sodium Cyanide	-	-	-	-	-	G	G	G	G
Sodium Hydroxide (<20%)	-	-	G	C	G	G	G	C	C
Sodium Hydroxide 40%	U	U	-	-	G	-	-	-	-
Sodium Hypochloride 10%	C	-	C	C	-	-	-	-	-
Sodium Hypochlorite	-	U	-	-	G	C	G	C	C
Sodium Metaphosphate	-	-	-	-	-	-	-	-	-
Sodium Nitrate	-	-	-	-	G	G	G	G	G
Sodium Perborate	-	U	-	-	G	-	-	-	-
Sodium Peroxide	-	U	-	-	G	-	-	-	-
Sodium Phosphate Solution	-	U	-	-	G	G	G	G	G
Sodium Silicate	-	-	-	-	-	G	G	G	G
Sodium Sulphide	-	-	-	-	-	G	G	G	G
Sodium Sulphite	G	-	-	-	G	-	-	G	G
Sodium Sulphate	-	-	-	-	-	G	G	G	G
Sodium Thiosulphate ('Hypo')	-	U	-	-	G	G	G	G	G
<b>Solutions/Emulsions</b>									
<i>2-4D DDT Preparation Hydroxy Quinoline</i>	-	-	-	-	-	G	-	-	-
Soybean Oil	-	G	-	-	G	-	-	-	-
Stannic Chloride	-	-	-	G	-	-	-	-	-
Stannous Chloride	-	U	-	-	-	C	G	G	G
Steam - up to 250° F	U	U	U	U	G	U	U	U	U
Stearic Acid, Botanical	-	C	-	-	G	G	G	G	G
Stearin	-	-	-	-	-	G	-	G	G
Stoddard Solvent	-	-	-	-	G	G	C	U	U
Styrene	-	-	-	G	G	G	-	C	C

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# CHEMICAL COMPATIBILITY CHART

	Rubber Hoses				Thermoplastic				
	IOFS / 100R4 R1AT, R2AT R5, R5T, R5HT R6, R3, MPH C21, C25, C35, C42 JBF40	XT3 XT5	WB900 WB1100	JW210 JW400	Teflon  STH	Nylon  3130 3E80 3490 3R80 3730 3VEO 3800	Poly- olefin  34PW	Polyes- ter  30CT 37AL	Ure- thane  Synflex cover material (except 30CT)
Sucrose Solution	-	-	-	-	G	-	-	-	-
Sulphur	G	-	G	G	G	G	G	G	G
Sulphur Chloride	-	C	-	-	G	-	-	-	-
Sulphur Dioxide	U	U	U	U	G	U	G	U	U
Sulphur Trioxide	-	U	-	-	-	C	G	U	U
Sulphuric Acid - 10% Cold	U	U	U	U	G	C	C	U	U
Sulphuric Acid - 10% Hot	U	U	U	U	G	C	C	U	U
Sulphuric Acid - 75% Cold	U	U	U	U	G	U	C	U	U
Sulphuric Acid - 75% Hot	U	U	U	U	G	U	C	U	U
Sulphuric Acid - 95% Cold	U	U	U	U	G	U	C	U	U
Sulphuric Acid - 95% Hot	U	U	U	U	G	U	C	U	U
Sulphuric Acid - Fuming	U	U	U	U	G	U	C	U	U
Sulphurous Acid	-	-	-	-	-	U	C	U	U
Tannic Acid 10%	-	U	-	-	G	G	G	C	C
Tar Oil Bituminous	-	U	-	-	G	G	G	G	G
Tartaric Acid	-	U	-	-	G	G	G	G	G
Terpineol	-	-	-	-	G	-	-	-	-
Toluene	U	U	U	U	G	G	U	C	C
Titanium Tetrachloride	-	-	-	-	-	-	-	-	-
Toluene Di-Isocyanate	-	-	-	-	-	-	-	-	-
Transformer Oil	-	-	-	-	G	-	-	-	-
Transmission Fluid Type A	-	-	-	-	G	-	-	-	-
Tributoxyethyl Phosphate	-	-	-	-	G	-	-	-	-
Toluol	-	-	-	-	-	G	U	C	C
Tributyl Phosphate	-	-	-	-	G	G	U	C	C
Tricesylphosphate	-	-	-	-	-	G	U	C	C
Trichloroacetic Acid	-	-	-	-	-	U	C	U	U
Trichloroethylene	U	U	U	U	G	G	U	U	U
Tricresyl Phosphate	-	-	-	-	-	-	-	-	-
Trisodium Phosphate Solution	-	-	-	-	-	G	-	C	C
Tung Oil (China Wood Oil)	-	-	-	-	G	-	-	-	-
Turpentine	-	U	-	-	G	G	U	G	G
Ucon Union Carbide (Water Glycol Base)	-	-	-	-	-	G	G	C	G

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# CHEMICAL COMPATIBILITY CHART

	Rubber Hoses				Thermoplastic				
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Urea Solution 50%	-	-	-	-	G	G	G	C	C
Uric Acid	-	-	-	-	-	G	G	U	U
Varnish	U	-	-	-	-	G	C	G	G
Vegetable Oils / Greases	G	-	G	G	G	-	-	-	-
Versilube	-	-	-	-	G	-	-	-	-
Vinegar (dil. impure Acetic Acid)	C	-	-	-	G	G	G	C	C
Vinyl Chloride	-	-	-	-	G	-	-	-	-
Water (< 66°C)	G	C	G	G	G	-	-	-	-
Water (>66° C)	G	G	G	G	G	G	G	G	G
Whiskey, Wines	-	-	-	-	G	G	G	G	G
White & Bagley No. 2190 Cutting Oil	-	-	-	-	G	G	-	-	-
Wool Oil (Lanoline)	-	-	-	-	-	G	G	G	G
Xylene	U	-	U	U	G	G	U	C	C
Xylol	-	-	-	-	-	G	U	C	C
Zinc Acetate	-	-	-	-	G	-	-	-	-
Zinc Chloride	-	C	-	-	G	G	G	G	G
Zinc Hydrate	-	-	-	-	-	U	G	C	C
Zinc Sulphate	-	C	-	-	G	U	G	C	C

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**Caution:** This chemical compatibility chart is intended only as a guideline to the suitability of Pirtek hoses for conducting the materials listed in the chart. Some substances may adversely affect the outer liner when the inner liner is shown to be suitable, and substances that are shown to be unsuitable, may in fact have no deleterious effects on the outer liner. Many factors, including concentration, length of exposure, temperature, and the environment, can have significant impact on the suitability or otherwise of particular combinations.

Any product given as being suitable does not imply compliance with relevant food standards or safety standards that may be applicable.

## ALPHANUMERIC INDEX TO HOSES

Product Code	Page
100R3	B 12
100R4	B 08
100R5	B 13
30CT	B 32
30CTX2	B 33
30CTX3	B 33
3130	B 34
3360X2	B 35
3420	B 36
3490	B 37
34PW	B 38
3730	B 39
3730X2	B 39
37AL	B 40
37ALX2	B 40
3800	B 41
3800X2	B 41
3833	B 42
3840	B 43
3840X2	B 43
3E80	B 44
3R80	B 45
3V10	B 46

Product Code	Page
3VEO	B 47
C21	B 20
C25	B 21
C35	B 22
C42	B 23
IFRAS	B 10
IROFSD	B 07
JBF40	B 24
JW250	B 15
JW250A	B 15
JW400	B 16
JW400A	B 16
MPH	B 09
R1AT	B 17
R2AT	B 18
R2ATHT	B 19
R5HT	B 14
R6	B 11
STH	B 48
WB1100	B 28
WB900	B 27
XT3	B 25
XT5	B 26

