

# RUBBER HOSES - INDEX

## SELECTION GUIDE



Page	Group	Product Codes	Construction	Normal Usage <i>(See main specification pages for details and approvals)</i>	Features and Benefits
5		<b>JH70</b> Jacking Hose		High pressure hydraulic hose for static jacking applications.	Synthetic rubber oil resistant liner and abrasion resistant cover. Two steel braids.
6		<b>R4HT</b> High Temp. Oil Suction & Delivery Hose		High temperature hydraulic suction and delivery hose for fuels and minerals.	Synthetic smooth oil resistant inner tube. Two braids of textile and a steel helix. MSHA.
7		<b>100R4</b> Oil Suction & Delivery Hose		Hydraulic suction and delivery hose.	Synthetic smooth oil resistant inner tube. Two braids of textile and a steel helix. MSHA.
8		<b>MPH</b> Multi-purpose Hose		High quality black multi-purpose hose with spiral wound textile reinforcement.	Synthetic black rubber inner and outer. Abrasion and weather resistant. Oil resistant.
9		<b>100R5HT</b> High Temp. Hose		Medium pressure air and hydraulic hose common on American equipment.	Internal diameters match the inside diameter of copper tube to yield an unrestricted flow.
10		<b>100R5</b> Engine & Air Brake Hose		Specifically intended for trucking industry applications involving diesel fuel and air brakes.	Black rubber with polyester textile outer cover for safe escape of entrapped air.
11		<b>PW3600B</b> Pressure Washer Hose		Medium pressure compact hose for pressure washers. Suitable for conveying water and detergents in an aqueous solution.	3600 psi blue non-marking weather resistant cover, one steel braid.
12		<b>PW4500</b> Pressure Washer Hose		High pressure compact hose for pressure washers. Suitable for conveying water and detergents in an aqueous solution.	4500 psi black and blue non-marking weather resistant cover, one steel braid.
13		<b>R17</b> SAE 100R17 Hose		Very flexible medium pressure hose for hydraulic fluids.	Synthetic rubber oil resistant liner with an abrasion resistant cover. One and two steel braids. 3000 psi constant W.P.
14		<b>R1AT</b> Single Wire Braid		Medium pressure hose for hydraulic fluids and aqueous emulsions and water.	Synthetic rubber oil resistant liner and abrasion resistant cover. One steel braid.
15		<b>R2AT</b> 2 Wire Braid		High pressure hose for hydraulic fluids and aqueous emulsions and water.	Synthetic rubber oil resistant liner and abrasion resistant cover. Two steel braids.
16		<b>R2ATHT</b> 2 Wire Braid High Temp.		High pressure hose for hydraulic fluids, aqueous emulsions, and water.	As above, but high temperature rubber formulation. Blue cover.
17		<b>PE2</b> PIRTEK Endurance Series® 2 Wire Braid Hose		Extremely high pressure compact hose for hydraulic fluids, aqueous emulsions, air and water.	Synthetic rubber oil resistant liner and abrasion resistant cover. Excellent flexibility.
18		<b>PE4</b> PIRTEK Endurance Series® 4 Wire Spiral Hose		Extremely high pressure hose with high performance design and half bend radius.	Synthetic rubber oil resistant liner and abrasion resistant cover. Excellent flexibility. 5076 and 6091 psi. SAE J1942 HF Type B
19		<b>PE6</b> PIRTEK Endurance Series® 6 Wire Spiral Hose		Extremely high pressure hose with high performance design and half bend radius.	Synthetic rubber oil resistant liner and abrasion resistant cover. Excellent flexibility. 5076 and 6091 psi. SAE J1942 HF Type B
20		<b>C21</b> Isobaric Class Hose		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 3045 psi WP.
21,24		<b>C25</b> Isobaric Class Hose <b>PC25</b> PIRTEK Class Hose		Isobaric (constant working pressure for all sizes) range of hoses exclusive to PIRTEK. Simplifies hose selection in circuits of known working pressure.  'PC' Prefix denotes Komatsu® genuine hoses.	Class 25 hoses suit 3625 psi WP.
22,25		<b>C35</b> Isobaric Class Hose <b>PC35</b> PIRTEK Class Hose		Isobaric (constant working pressure for all sizes) range of hoses exclusive to PIRTEK. Simplifies hose selection in circuits of known working pressure.  'PC' Prefix denotes Komatsu® genuine hoses.	Class 35 hoses suit 5076 psi WP.
23,26		<b>C42</b> Isobaric Class Hose <b>PC42</b> PIRTEK Class Hose		Isobaric (constant working pressure for all sizes) range of hoses exclusive to PIRTEK. Simplifies hose selection in circuits of known working pressure.  'PC' Prefix denotes Komatsu® genuine hoses.	Class 42 hoses suit 6091 psi WP.
27		<b>JBF</b> Large Bore Hose		Large bore medium pressure hose for hydraulic fluids including aqueous emulsions.	Spiral construction. Medium pressure hose for hydraulic fluids such as mineral and vegetable oils, aqueous emulsions, and water.



WARNING: This product may contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm. For more information please visit: [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov)

# THERMOPLASTIC HOSES - INDEX

## SELECTION GUIDE



Page	Group	Product Codes	Construction	Normal Usage <i>(See main specification pages for details and approvals)</i>	Features and Benefits
28	THERMOPLASTIC	<b>TPR7</b> Medium Pressure Thermoplastic Hose		General hydraulics, material handling, pneumatics, and agricultural equipment.	Polyamide core and good cold weather flexibility. SAE 100R7 performance.
29		<b>TPR7X2</b> Twin Line Medium Pressure Thermoplastic Hose		General hydraulics twin line, material handling, pneumatics, and agricultural equipment.	Polyester core and good cold weather flexibility. SAE 100R7 performance.
30		<b>TPR7NC</b> Non-conductive Thermoplastic Hose		Non-conductive hydraulic hose for aerial lift equipment.	Polyester core and good cold weather flexibility. SAE 100R7 performance.
31		<b>TPR8</b> High Pressure Thermoplastic Hose		Pilot lines, general hydraulics, and machine tools at higher pressures than 100R7.	R8 Performance with compact R7 dimensions.
32		<b>TPR8NC</b> Non-conductive Thermoplastic Hose		Non-conductive hydraulic hose for aerial lift equipment with higher working pressures.	High pressure general hydraulic systems that may contact high voltage sources. SAE 100R8.
33		<b>TP1W</b> 1 Wire Thermoplastic Hose		Low temperature hydraulic and gas hose. Recommended for mobile equipment.	Good cold weather and cold room flexibility. Good bend radius and kink resistance.
34		<b>TP1WX2</b> Twin Line One Wire Thermoplastic Hose		Low temperature hydraulic and gas hose. Recommended for mobile equipment.	Good cold weather and cold room flexibility. Good bend radius and kink resistance.
35		<b>100STH</b> PTFE (Teflon®) Hose		Laundry equipment, plastic molding presses and hot air discharge.	Teflon® liner and SS braid allow high temperature and chemical capability.



WARNING: This product may contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm. For more information please visit: [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov)

## ORDERING PIRTEK ASSEMBLIES

Should you wish to describe a PIRTEK hose assembly in an abbreviated form, please use the following format. A forward slash is used to separate each field. Product Codes for fittings can be found in PIRTEK Catalog Section B.



If spiral guard PSAW-25 were fitted over the full length, the designation would be:

R1AT-12 / JF1-1212J / C614-1212J / 48 / PSAW-25

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

R1AT-12 / C614-1212J / 48 / 0

**Generic Pattern : Hose / End A / End B / Length / Protection / Angle**

# 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.

INSPECT the hose assembly before each use.

REPLACE the hose assembly immediately if:

- A. The hose is damaged
- B. The fittings are damaged
- C. Reinforcement is visible through the cover
- D. There is any fluid leakage
- E. The cover appears abnormal
- F. You believe it may be abnormal

DO NOT EXCEED the maximum working pressure of the hose.

DO NOT KINK the hose assembly.

DO NOT BEND beyond the specified minimum bend radius of the hose.

DO NOT EXPOSE to temperatures beyond the published minimums or maximums for the hose or fluid being conveyed.

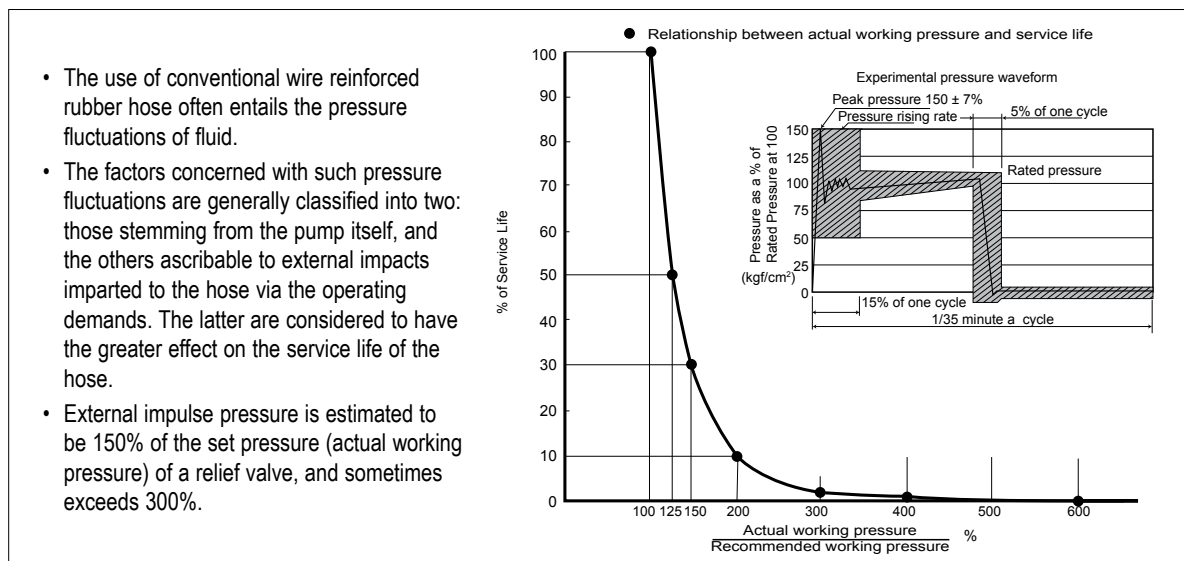
DO NOT USE AS A STRENGTH MEMBER for pulling or lifting equipment. Use support cables for vertical installations.

USE ONLY WITH COMPATIBLE FLUIDS as outlined in the Chemical Compatibility Charts or as specifically approved in writing by PIRTEK USA.

PIN PRICK THE COVER of hoses used for compressed air above 250 psi or 17 bar to allow the safe escape of air that permeates through the liner and reinforcement (except STH and R5HT). The maximum working pressure and temperature must also be reduced by 30%.

Use only PIRTEK HOSE AND FITTINGS COMBINATIONS as designated in our current assembly guidelines.

Use only PIRTEK approved hose assembly procedures and equipment.



# FAST FIND TABLE

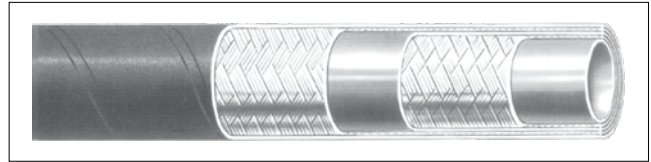
## SIZE, PRESSURE, TEMPERATURE



Product Code and Hose Type Dia. (ins.) mm size		Working Pressure PSI																		Temp. Range min-max				
		3/8	3/16	1/4	5/16	3/8	1/2	5/8	3/4	1	1 1/4	1 1/2	1 3/4	2	2 1/2	3	3 1/2	4	5					
		-003	-004	-006	-008	-010	-013	-016	-019	-025	-032	-038	-045	-050	-063	-076	-090	-100	-125					
PE2	Hybrid 2 Wire Braid			6526		5656	5076	4206	4061	3625											-40°/+212°			
PE4	Half Bend Radius 4 Wire Spiral					6091	6091	6091	6091	6091	5076 / 6091	6091									-40°/+248°			
PE6	Half Bend Radius 6 Wire Spiral					6091	6091	6091	6091	6091	6091	6091									-40°/+248°			
C21	Isobaric 3045 psi													3045							-40°/+212°			
C25, PC25	Isobaric 3625 psi							3625	3625	3625	3625	3625									-40°/+212°			
C35, PC35	Isobaric 5076 psi				5511	5076	5076	5076	5076	5076	5076	5076		5076							-40°/+248°			
C42, PC42, P42	Isobaric 6091 psi			6091		6091	6091	6000	6091	6091	6091	6091	6091	6091							-40°/+248°			
R1AT	1 Wire Hydraulic			3263		2610	2320	1885	1522	1276	913	725		580							-40°/+212°			
R2AT	2 Wire Hydraulic			5801		4786	3988	3625	3118	2393	2204	1305		1160							-40°/+212°			
R2ATHT	2 Wire High Temp.			5743		5004	4250	3249	3002	2494	2248	1740		1494							-40°/+302°			
100R5	Engine & Air Brake Hose			Unique diameters throughout range 3/16" to 1 13/16"																			-40°/+300°	
100R5HT	High Temp. 100R5			Unique diameters throughout range 3/16" to 1 13/16"																				-40°/+300°
PW3600B	Pressure Wash 3600			3600																	-40°/+302°			
PW4500	Pressure Wash 4500					4500															-40°/+302°			
R17	1 & 2 Wire Hydraulic			3000		3000	3000	3000													-40°/+212°			
100R4	Hydraulic Suction & Delivery								300	250	200	150		100	62	56					-40°/+200°			
R4HT	Hydraulic Suction & Delivery								304	289	203	145		145	145	188	188	188			-40°/+275°			
MPH	Multi-purpose Hose			500	500	500	500	500	500	500											-40°/+212°			
JH70	Jacking Hose			10,152		10,152															-40°/+212°			
JBF40	Large Bore															2030					-40°/+212°			
TPR7	Medium Pressure	3335	3045	2900	2755	2537	2030														-65°/+212°			
TPR7X2	MP Twin Line	3335	3045	2900	2755	2537	2030														-65°/+212°			
TPR7NC	Non-conductive			2900		2537	2030														-40°/+212°			
TP1W	1 Wire Thermoplastic		4712	4350	3480	3262	2755														-65°/+212°			
TP1WX2	Twin 1 Wire Thermoplastic		4712	4350	3480	3262	2755														-65°/+212°			
TPR8	High Pressure			5075		4060	3552														-65°/+212°			
TPR8NC	HP Non-conductive			5075		4060	3552														-65°/+212°			
STH	Stainless Steel Teflon® Hose		3000	3000	2500	2250	1750	1500	1100	900											-65°/+446°			

Technical Data and Chemical Compatibility Tables Begin On Page 37

# JH70 JACKING HOSE



## Construction

### Inner Tube:

Seamless NBR (Nitrile) Rubber, oil resistant.

### Reinforcement:

Two braids of high tensile steel wire.

### Cover:

Black synthetic rubber resistant to abrasion, oils, ozone and weathering.

## Applications

High pressure hose for hydraulic fluids including mineral and vegetable oil in hydraulic systems only for jacking applications.

### Temperature Range:

-40°F up to +212°F mineral oil

## Reference Specifications

Approvals: MSHA

### Special Notes:

Only for use as a Jacking hose.

**Note: Reduced Safety Factor of 2:1, For Static applications only.**

**Always use a KG bend restrictor when assembling a JH70 Series Assembly.**

**Refer to PIRTEK For Assembly Instructions.**

**Hose Tails:** Use only the PIRTEK Approved fittings in the K Series, NM1-0404K, NM1-0604K and NM1-0606K

**PIRTEK JACK HOSE SERIES II JH70-04 1/4" (6.4mm) 10,152 PSI (700 BAR) W.P ABRASION RESISTANT MSHA**

**Lay line example:** Red text on black. **Comment:** Lay line example may not be a true indication of current status. Refer to PIRTEK for current information.

Product Code	Nominal ID			Reinforcement	Cover OD mm	Pressure PSI		Minimum Bend Radius mm	Weight lb/ft
	DN	Inch	mm			Working	Burst		
JH70-04	6	1/4	6.4	2 braid	14.8	10,152	20,000	80	0.25
JH70-06	10	3/8	9.5	2 braid	19.0	10,152	20,000	95	0.38

**SPECIAL NOTES:** Use only K Series fittings, NM1-0404K, NM1-0604K and NM1-0606K Hose Tails.  
Safety Factor is 2:1

JH70-06 assembly with Bend Restrictor attached to resist kinking of the hose at the end of the Ferrule.



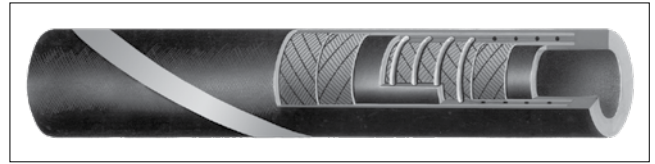
KG-04 Bend Restrictor



KG-06 Bend Restrictor

# R4HT

## HIGH TEMP. OIL SUCTION & DELIVERY



### Construction

#### Inner Tube:

Black smooth NBR (Nitrile) compound, oil resistant.

#### Reinforcement:

High strength synthetic cord plus embedded steel helix wire.

#### Cover:

Black, smooth (wrapped finish) Hypalon rubber compound flame retardant, resistant to abrasion, oils and weathering.

### Applications

Hardwall hose for suction and delivery of oil at high temperatures in hydraulic systems. Extremely flexible.

#### Temperature Range:

-40°F up to +275°F mineral oil  
-40°F up to +158°F water based fluids

### Reference Specifications

Tested in accordance with performance specifications: SAE100 R4.

#### Approvals: MSHA

Prolonged usage with water based fluids at temperatures above 158°F will allow wire corrosion as a result of diffusion through the inner liner.

#### Hose Tails:

J Series for some sizes  
Combination Steel (all with clamps)

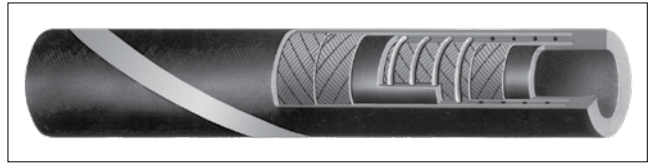
**PIRTEK R4 HIGH TEMP R4HT-32 2" (50.8mm) 145 PSI (10 BAR) MSHA**

**Lay line example:** Embossed text on black. **Comment:** Lay line example may not be a true indication of current status. Refer to PIRTEK for current information.

Product Code	Nominal ID		Cover OD mm	Pressure PSI			Minimum Bend Radius mm	Weight lb/ft
	mm	ins		Working	Minimum Burst	vacuum		
R4HT-12	19.1	3/4	30.5	304	1,203	0.9	60	0.44
R4HT-16	25.4	1	37	289	986	0.9	80	0.56
R4HT-20	31.8	1.1/4	44	203	812	0.9	100	0.68
R4HT-24	38.1	1.1/2	50	145	580	0.9	125	0.89
R4HT-32	50.8	2	63	145	580	0.9	150	1.51
R4HT-40	63.5	2.1/2	80	145	580	0.9	200	1.81
R4HT-48	76	3	92	188	754	0.9	240	2.20
R4HT-56	89	3.1/2	108	188	754	0.9	280	2.88
R4HT-64	102	4	121	188	754	0.9	320	3.22

# 100R4

## OIL SUCTION & DELIVERY



### Construction

#### Inner Tube:

Black, oil resistant Nitrile (NBR).

#### Reinforcement:

Two textile braids, pre-treated for tube and cover adhesion. Helix wires are located between the braids to resist collapse under vacuum or bending.

#### Cover:

Black, oil and weather resistant Neoprene (CR)  
MSHA approved.

### Applications

Hardwall hose for suction and delivery of oil in hydraulic systems. Extremely flexible.

#### Temperature Range:

-40°F up to +200°F mineral oil  
-40°F up to +140°F water based fluids

### Reference Specifications

Tested in accordance with performance specifications: SAE100 R4.

#### Approvals: MSHA

Prolonged usage with water based fluids at temperatures above 140°F will allow wire corrosion as a result of diffusion through the inner liner.

#### Hose Tails:

J Series for some sizes  
Cam and Groove, Combination Steel  
(all with clamps)

**PIRTEK** SAE 100R4-20 Suction Hose 1 1/4" (31.75mm) 200 PSI (13.79 BAR) MSHA

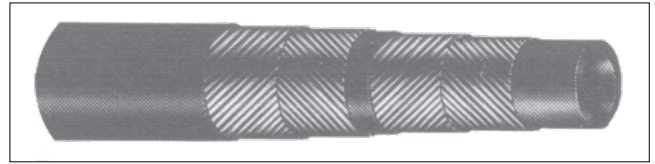
**Lay line example:** Embossed text on black. **Comment:** Lay line example may not be a true indication of current status. Refer to PIRTEK for current information.

Product Code	Nominal ID		Cover OD mm	Pressure PSI			Minimum Bend Radius mm	Weight lb/ft
	mm	ins		Working	Minimum Burst	in/hg		
100R4-12	19.1	3/4	31.50	300	1,200	25.00	127	0.42
100R4-16	25.4	1	38.90	250	1,000	25.00	153	0.57
100R4-20	31.8	1.1/4	45.20	200	800	25.00	203	0.67
100R4-24	38.1	1.1/2	52.58	150	600	25.00	254	0.84
100R4-32	50.8	2	64.51	100	400	25.00	305	1.03
100R4-40	63.5	2.1/2	79.25	62	250	25.00	356	1.70
100R4-48	76	3	91.95	56	225	25.00	457	1.99
100R4-56	89	3.1/2	105.20	45	180	25.00	533	2.34
100R4-64	102	4	119.40	35	140	25.00	610	3.03



# MPH

## MULTI-PURPOSE HOSE



### Construction

#### Inner Tube:

Black, smooth NBR (Nitrile) seamless synthetic rubber, oil resistant.

#### Reinforcement:

Two or four spirals of textile fiber.

#### Cover:

Black CR (Neoprene) synthetic rubber compound resistant to abrasion, oils, ozone and weathering.

### Applications

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

#### Temperature Range:

Water +32°F to +122°F (continuous)

Water +32°F to +158°F (temporary)

Air -40°F to +122°F (in case of air applications, pressure should be less than 217 psi)

Other fluid -40°F up to +212°F

-40°F up to 158°F external ambient

### 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

Safety Factor 4:1.

#### Hose Tails:

Push Lock

T Series option on 3/8", 1/2", 5/8" sizes

#### Cutting:

Hand-cutting is recommended for this hose.

**PIRTEK MULTI MPH-12 3/4" (19.1mm) 500 PSI (35 BAR) W.P.**

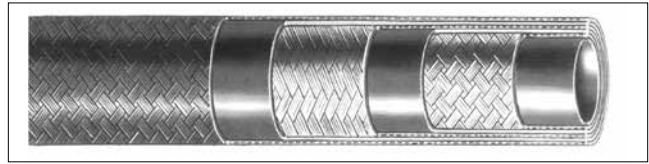
**Lay line example:** Green text on black. **Comment:** Lay line example may not be a true indication of current status. Refer to PIRTEK for current information.

Product Code	Nominal ID		Reinforcement	Cover OD	Pressure PSI		Minimum Bend Radius	Weight
	mm	in			Working	Minimum Burst		
MPH-04	6.3	1/4	4 fabric spiral	14.0	500	2,000	55	0.10
MPH-05	8.0	5/16	4 fabric spiral	15.8	500	2,000	60	0.12
MPH-06	9.5	3/8	4 fabric spiral	17.4	500	2,000	65	0.14
MPH-08	12.7	1/2	4 fabric spiral	21.3	500	2,000	90	0.19
MPH-10	15.9	5/8	2 fabric spiral	23.5	500	2,000	110	0.20
MPH-12	19.0	3/4	4 fabric spiral	31.4	500	2,000	135	0.40
MPH-16	25.4	1	4 fabric spiral	37.5	500	2,000	170	0.50



# 100R5HT

## HIGH TEMP. HOSE



### Construction

#### Inner Tube:

Seamless CPE/AQP 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. Permeable cover allows safe escape of entrapped air when used to conduct high pressure air.

### Applications

Low to medium pressures hose that will handle high temperature hydraulic fluids such as mineral and vegetable oils, diesel, B20, petrol, E10, aqueous emulsions, water, air and inert gases.

#### Temperature Range:

-40°F up to +300°F hydraulic, transmission oils and diesel.

-40°F up to +212°F E10 and B20 (biodiesel)

+32°F up to +150°F water, water based fluid and glycol (anti-freeze)

+32°F up to +249°F air not exceeded

-40°F up to +249°F ambient

### Reference Specifications

Exceeds SAE J 517 (100 R5).

D.O.T. FMVSS106.

Consult PIRTEK for specific Industry Approvals.

#### Hose Tails:

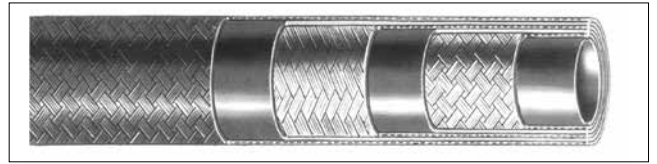
Field attachable

Product Code	Nominal ID		Cover OD mm	Pressure PSI		Minimum Bend Radius mm	Weight lb/ft
	mm	in		Working	Minimum Burst		
100R5HT-04	5.1	3/16	13.2	3,000	12,000	76	0.12
100R5HT-05	6.8	1/4	14.8	3,000	12,000	86	0.16
100R5HT-06	8.3	5/16	17.1	2,250	9,000	102	0.22
100R5HT-08	10.7	13/32	19.5	2,000	8,000	117	0.26
100R5HT-10	13.2	1/2	23.4	1,750	7,000	140	0.36
100R5HT-12	16.4	5/8	27.4	1,500	6,000	165	0.44
100R5HT-16	22.8	7/8	31.4	800	3,200	187	0.46
100R5HT-20	29.2	1.1/8	38.1	625	2,500	229	0.52
100R5HT-24	35.5	1.3/8	44.4	500	2,000	267	0.67
100R5HT-32 †	46.6	1.13/16	56.2	300	1,200	337	0.94

† Does not comply with SAE 100R5 operating pressure of 348 psi or minimum burst pressure of 1,392 psi.

# 100R5

## ENGINE & AIR BRAKE HOSE



### Construction

#### Inner Tube:

Seamless oil resistant nitrile.

#### Reinforcement:

One fiber braid and one braid of high tensile steel wire.

#### Cover:

Black synthetic rubber with black polyester textile outer braid resistant to abrasion, oils, ozone and weathering. Permeable cover allows safe escape of entrapped air when used to conduct high pressure air.

### Applications

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

#### Temperature Range:

-40°F up to +300°F hydraulic, transmission oils and diesel.

+32°F up to +185°F water, water based fluid and glycol (anti-freeze).

+32°F up to +158°F air.

### Reference Specifications

\* SAE J1402 All Standard

D.O.T. FMVSS 106 All air brake

Consult PIRTEK for specific Industry Approvals.

#### Hose Tails:

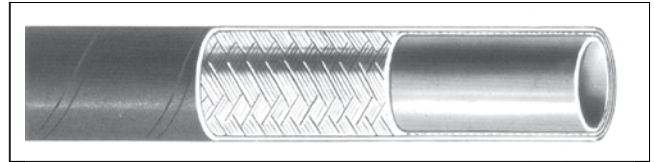
Field attachable

Product Code	Nominal ID		Cover OD	Pressure PSI		Minimum Bend Radius	Weight
	mm	in		Working	Minimum Burst		
100R5-04	4.8	3/16	13.7	3,000	12,000	75	0.013
100R5-05	6.4	1/4	15.7	3,000	12,000	85	0.16
100R5-06	7.9	5/16	17.7	2,250	9,000	100	0.19
100R5-08	10.4	13/32	20.1	2,000	8,000	115	0.22
100R5-10	12.7	1/2	24.0	1,750	7,000	140	0.34
100R5-12	15.9	5/8	27.9	1,500	6,000	165	0.39
100R5-16 †	22.4	7/8	32.3	800	3,200	185	0.37
100R5-20 †	28.7	1.1/8	38.9	625	2,500	230	0.46
100R5-24 †	35.1	1.3/8	46.0	500	2,000	265	0.57
100R5-32 †	46.6	1.13/16	56.4	350	1,400	335	0.89

† Consult PIRTEK for specific Industry Approvals

# PW3600B

## PRESSURE WASHER HOSE



### Construction

#### Inner Tube:

Synthetic rubber, resistant to detergents in aqueous solutions.

#### Reinforcement:

One braid of high tensile steel wire.

#### Cover:

Blue perforated non marking synthetic rubber resistant to abrasion, oils, ozone and weathering.

### Applications

Medium pressure compact hose for pressure washers. Suitable for conveying water and detergents in an aqueous solution.

#### Temperature Range:

-40°F up to +230°F  
+302°F peak (see notes below)

#### † Comment:

Not suitable for steam or hydraulic applications.

**Safety Factor at 4:1 (according to IEC 335-2)**

**Use in conjunction with KG bend restrictors.**

#### Hose Tails:

K Series

**PIRTEK** PRESSURE WASH PW3600B-04 1/4" (6.4MM) 3600 PSI (250 BAR) W.P. MAX TEMP 302°F

**Lay line example:** Black text on black. **Comment:** Lay line example may not be a true indication of current status. Refer to PIRTEK for current information.

Product Code	Nominal ID			Reinforcement	Cover OD	Pressure PSI		Minimum Bend Radius	Weight
	DN	Inch	mm			Working	Burst		
PW3600B-04 †	6	1/4	6.4	1 braid	12.8	3600	14,400	100	0.14

† See Comment above

**NOTE: With temperatures greater than 230°F, the service life of the hose will be greatly reduced.**

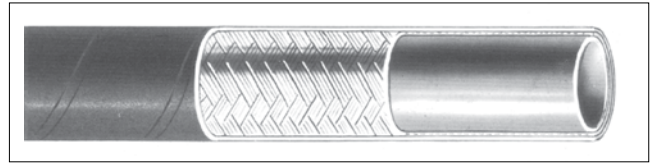
#### KG-04 Bend Restrictor



KG-04 assembly with a Bend Restrictor attached to resist kinking of the hose at the end of the Ferrule.

# PW4500

## PRESSURE WASHER HOSE



### Construction

#### Inner Tube:

Synthetic rubber, resistant to detergents in aqueous solutions.

#### Reinforcement:

One braid of high tensile steel wire.

#### Cover:

Black perforated synthetic rubber resistant or blue non marking synthetic rubber resistant to abrasion, oils, ozone and weathering.

### Applications

High pressure compact hose for pressure washers. Suitable for conveying water and detergents in an aqueous solution.

#### Temperature Range:

-40°F up to +230°F water  
+302°F peak (see notes below)

#### † Comment:

Not suitable for steam or hydraulic applications.

**Safety Factor at 4:1 (according to IEC 335-2)**

**Use in conjunction with KG bend restrictors.**

#### Hose Tails:

K Series

**PIRTEK PRESSURE WASH PW4500B-06 3/8" (9.5MM) 4500 PSI (315 BAR) W.P. MAX TEMP 302°F**

**Lay line example:** Black text on black. **Comment:** Lay line example may not be a true indication of current status. Refer to PIRTEK for current information.

Product Code	Nominal ID			Reinforcement	Cover OD	Pressure PSI		Minimum Bend Radius	Weight
	DN	mm	in			mm	mm		
PW4500-06 †	10	9.5	3/8	1 braid	16.6	4500	18,000	110	0.22
PW4500B-06 †	10	9.5	3/8	1 braid	16.6	4500	18,000	110	0.22

† See Comment above

**NOTE: With temperatures greater than 230°F, the service life of the hose will be greatly reduced.**

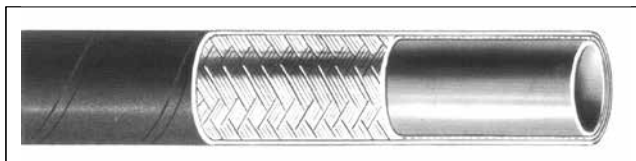
#### KG-06 Bend Restrictor



KG-06 assembly with a Bend Restrictor attached to resist kinking of the hose at the end of the Ferrule

# R17

## SAE 100R17 HOSE



### Construction

#### Inner Tube:

Seamless synthetic rubber, oil resistant.

#### Reinforcement:

One or two layers of high tensile steel braid.

#### Cover:

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

### Applications

Very flexible medium pressure hose for hydraulic fluids such as mineral oils, aqueous emulsions, water, air and inert gases.

#### Temperature Range:

-40°F up to +212°F

Prolonged usage with water or water based fluids at temperatures above 158°F will allow wire corrosion as a result of diffusion through the inner liner.

### Reference Specifications

These hoses meet or exceed:

SAE 100 R17

MSHA

#### Hose Tails:

K Series

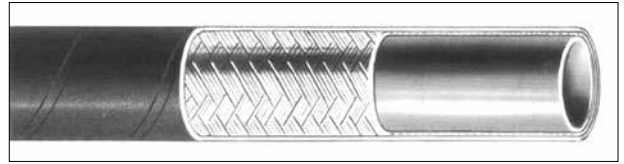
**PIRTEK** SAE 100R17 R17-06 3/8" (9.5mm) 3,000 PSI (210 BAR) W.P. MSHA IC-188/4

**Lay line example:** White text on black. **Comment:** Lay line example may not be a true indication of current status. Refer to PIRTEK for current information.

Product Code	Nominal ID			Reinforcement	OD mm		Pressure PSI		Minimum Bend Radius	Weight
	DN	Inch	mm		Wire	Cover	Working	Burst	mm	lb/ft
R17-04	6	1/4	6.4	1 braid	10.2	12.3	3,000	12,000	50	0.12
R17-06	10	3/8	9.5	1 braids	13.6	15.9	3,000	12,000	65	0.18
R17-08	12	1/2	12.7	1 braids	17.0	19.1	3,000	12,000	90	0.26
R17-10	16	5/8	15.9	2 braids	21.1	23.9	3,000	12,000	100	0.43

# R1AT

## SINGLE WIRE BRAID



### Construction

#### Inner Tube:

Seamless NBR (Nitrile) rubber, oil resistant.

#### 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 oils, aqueous emulsions, water, air and inert gases.

#### Temperature Range:

-40°F up to +212°F mineral oil

-40°F up to +140°F water based fluids

+32°F up to +140°F water

+32°F up to +122°F air

-40°F up to 158°F ambient

Cover must be pin pricked if hose is to be used to convey air above 246 psi.

### Reference Specifications

Tested in accordance with performance specifications: SAE100 R1AT S EN853 1SN.

#### Approvals:

\*SAE J1942 ⌀ HF Type B

AS2660 test requirements-

AS1180 10B and AS1180.13A (FRAS)

MSHA

Prolonged usage with water or water based fluids at temperatures above 158°F will allow wire corrosion as a result of diffusion through the inner liner.

#### Hose Tails:

K Series to 5/8"

J Series 3/4" to 2"

**PIRTEK SAE 100R1 AT TYPE S R1AT-04 1/4" (6.4 mm) 3263 PSI (225 BAR) MSHA FRAS ⌀ HF TYPE B**

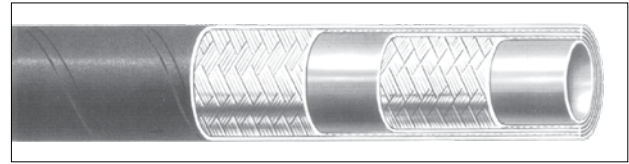
**Lay line example:** White text on black. **Comment:** Lay line example may not be a true indication of current status. Refer to PIRTEK for current information.

Product Code	Nominal ID			Reinforcement	OD mm		Pressure PSI		Minimum Bend Radius	Weight
	DN	Inch	mm		Wire	Cover	Working	Burst		
R1AT-04 *	6	1/4	6.4	1 braid	11.1	13.3	3,263	13,050	100	0.15
R1AT-06	10	3/8	9.5	1 braid	15.1	17.3	2,610	10,440	125	0.24
R1AT-08	13	1/2	12.7	1 braid	18.3	20.3	2,320	9,280	180	0.30
R1AT-10	16	5/8	15.9	1 braid	21.4	23.5	1,885	7,540	201	0.33
R1AT-12	20	3/4	19.1	1 braid	25.4	27.5	1,522	6,090	240	0.41
R1AT-16	25	1	25.4	1 braid	33.3	35.6	1,276	5,104	300	0.62
R1AT-20	32	1 1/4	31.8	1 braid	40.4	43.2	913	3,654	420	0.91
R1AT-24	40	1 1/2	38.1	1 braid	48.0	51.4	725	2,900	500	1.14
R1AT-32	50	2	50.8	1 braid	61.6	68.3	580	2,320	630	1.63

\*Note: R1AT-04 is only included in SAE J1942 ⌀ HF Type B

# R2AT

## 2 WIRE BRAID



### Construction

#### Inner Tube:

Seamless NBR (Nitrile) rubber, oil resistant.

#### 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 oils, aqueous emulsions, water, air and inert gases.

#### Temperature Range:

- 40°F up to +212°F mineral oil
- 40°F up to +140°F water based fluids
- +32°F up to +140°F water
- +32°F up to +122°F air
- 40°F up to 158°F ambient

Cover must be pin pricked if hose is to be used to convey air above 246 psi.

### Reference Specifications

Tested in accordance with performance specifications: SAE100 R2AT EN853 2SN

#### Approvals:

SAE J1942 ⚡ HF Type B  
AS2660 test requirements-  
AS1180.10B and AS1180.13A (FRAS)  
MSHA  
Prolonged usage with water or water based fluids at temperatures above 158°F will allow wire corrosion as a result of diffusion through the inner liner.

#### Hose Tails:

K Series to 5/8"  
J Series 3/4" to 2"

**PIRTEK** SAE 100R2AT R2AT-12 3/4" (19.1 mm) 3118 PSI (215 BAR) MSHA FRAS ⚡ HF TYPE B

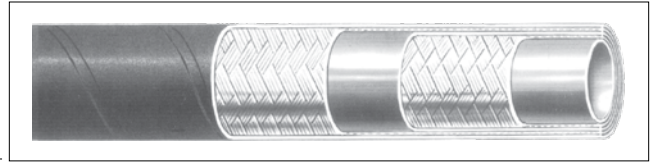
**Lay line example:** White text on black. **Comment:** Lay line example may not be a true indication of current status. Refer to PIRTEK for current information.

Product Code	Nominal ID			Reinforcement	OD mm		Pressure PSI		Minimum Bend Radius	Weight
	DN	Inch	mm		Wire	Cover	Working	Burst	mm	lb/ft
R2AT-04	6	1/4	6.4	2 braids	12.7	14.9	5,801	23,204	100	0.24
R2AT-06	10	3/8	9.5	2 braids	16.7	18.9	4,786	19,144	125	0.33
R2AT-08	13	1/2	12.7	2 braids	19.8	21.9	3,988	15,952	180	0.41
R2AT-10	16	5/8	15.9	2 braids	23.0	25.2	3,625	14,500	205	0.45
R2AT-12	20	3/4	19.1	2 braids	27.0	29.2	3,118	12,472	240	0.59
R2AT-16	25	1	25.4	2 braids	34.9	37.9	2,393	9,572	300	0.97
R2AT-20	32	1 1/4	31.8	2 braids	44.4	48.0	1,813	8,816	420	1.52
R2AT-24	40	1 1/2	38.1	2 braids	50.8	54.4	1,305	5,220	500	1.75
R2AT-32	50	2	50.8	2 braids	63.5	67.0	1,160	4,640	630	2.22



# R2ATHT

## 2 WIRE BRAID HIGH TEMP.



### Construction

#### Inner Tube:

High temp. elastomer rubber, resistant to oil.

#### Reinforcement:

Two braids of high tensile steel wire.

#### Cover:

Blue elastomer rubber resistant to abrasion, oils, ozone and weathering.

### Applications

Hydraulic system service with petroleum, fire resistant and water base fluids, fuel and lubricating systems.

#### Temperature Range:

-40°F up to +302°F

except: air not to exceed 249°F

: water not to exceed 158°F

### Reference Specifications

Exceeds SAE J 517 (SAE 100R2AT)

EN 853 2SN

Former DIN 20022 2SN (part 4)

#### Approvals:

MSHA

FRAS AS1180.10B and13A

#### Limitations:

Cover must be pin pricked if hose is to be used to conduct air above 246 psi.

#### Impulse Testing:

All sizes tested to 200,000 cycles (hose only).

#### Hose Tails:

K Series to 5/8"

J Series 3/4" to 2"

**PIRTEK** SAE 100 R2 AT - DIN EN 853 2SN "HIGH TEMP." 1" (25mm) R2ATHT-16 2494 PSI (172 BAR) WORK.PRESS: 302°F MAX MSHA-25 FRAS AS1180.10B and 13A

**Lay line example:** White text on dark blue. **Comment:** Lay line example may not be a true indication of current status. Refer to PIRTEK for current information.

Product Code	Nominal ID			OD mm		Pressure PSI		Minimum Bend Radius	Weight
	DN	Inch	mm	Wire	Cover	Working	Burst	mm	lb/ft
R2ATHT-04	6	1/4	6.4	12.7	15.2	5,743	22,974	102	0.27
R2ATHT-06	10	3/8	9.5	16.7	19.2	5,004	20,015	127	0.39
R2ATHT-08	12	1/2	12.7	19.8	22.1	4,250	16,998	178	0.46
R2ATHT-10	16	5/8	15.9	23.0	25.1	3,249	12,995	203	0.54
R2ATHT-12	19	3/4	19.0	27.0	29.5	3,002	12,009	241	0.67
R2ATHT-16	25	1	25.4	34.9	37.8	2,494	9,978	305	0.97
R2ATHT-20	31	1 1/4	31.8	44.5	48.8	2,248	8,992	419	1.61
R2ATHT-24	38	1 1/2	38.1	50.8	54.6	1,740	6,962	508	1.74
R2ATHT-32	51	2	50.8	63.5	67.8	1,494	5,975	635	2.27

# PE2

## PIRTEK ENDURANCE SERIES®

### 2 WIRE BRAID HOSE



#### Construction

**Hose Type:**  
Hybrid Two Wire Braid.

**Inner Tube:**  
Black synthetic rubber resistant to oils.

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

**Cover:**  
Black, smooth synthetic rubber resistant to oils, abrasion and weather conditions.

#### Applications

Extremely high pressure compact hose with greater flexibility, suitable for mineral and vegetable oils, aqueous emulsions, water, air and inert gases. Recommended for hydraulic applications where high pressure and tighter bend radius is needed. Cover must be pin pricked if hose is to be used to convey air above 246psi.

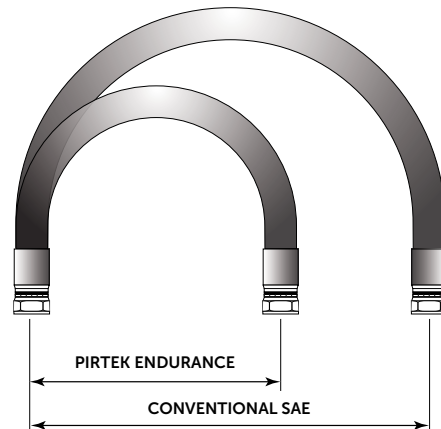
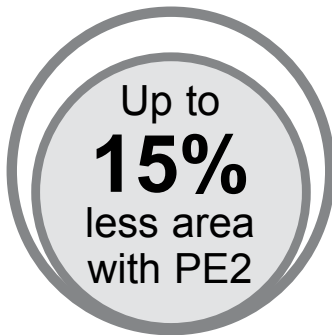
**Temperature Range:**  
-40°F up to 212°F (257°F discontinuous)  
mineral/vegetable oils  
-40°F up to 158°F water based fluids  
32°F up to 150°F air  
-40°F up to 158°F external ambient.  
Prolonged usage with water or water based fluids at temperatures above 158°F will allow wire corrosion as a result of diffusion through the inner tube.

#### Reference Specifications

Exceeds SAE 100R16 and EN 857 2SC

**Approvals:**  
SAE J1942 ⊕ HF Type B  
MSHA  
FRAS (Fire Resistant Anti Static)

**Hose Tails:**  
K Series up to 5/8"  
J Series 3/4" and 1"



**PIRTEK ENDURANCE SERIES PE239-06 3/8" (9.5 MM) 5656 PSI (390 BAR) W.P. [K] MSHA FRAS ⊕ HF TYPE B 3Q18**

**Lay line example:** White text on black. **Comment:** Lay line example may not be a true indication of current status. Refer to PIRTEK for current information.

Product Code	(DN)	Nominal ID		Cover OD (mm)	Working Pressure		Burst Pressure		Min. Bend Radius mm	Weight lb/ft	Series
		(in)	(mm)		PSI	Bar	PSI	Bar			
PE245-04	6	1/4	6.4	13.1	6526	450	26104	1800	45	0.20	K
PE239-06	10	3/8	9.5	16.5	5656	390	22624	1560	70	0.25	K
PE235-08	13	1/2	12.7	20.1	5076	350	20304	1400	90	0.37	K
PE229-10	16	5/8	15.9	23.6	4206	290	16824	1160	130	0.43	K
PE228-12	19	3/4	19.1	27.5	4061	280	16244	1120	160	0.54	J
PE225-16	25	1	25.4	35.6	3625	250	14500	1000	250	0.87	J



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

# PE4

## PIRTEK ENDURANCE SERIES® 4 WIRE SPIRAL HOSE



### Construction

**Hose Type:**

Half bend radius 4 wire spiral

**Inner Tube:**

Black synthetic rubber resistant to oils

**Reinforcement:**

5076 PSI (350 Bar) = Four high tensile steel spirals in -20.

6091 PSI (420 Bar) = Four high tensile steel spirals up to -16

**Cover:**

Black wrapped abrasion resistant synthetic rubber cover, resistant to oils, ozone and weather conditions.

### Applications

Extremely high pressure hose with high performance and half bend radius of SAE 100R13 and R15 hoses.

Higher flexibility compared with conventional spiral hoses. Suitable for mineral and vegetable oils, aqueous emulsions, water, air and inert gases.

Cover must be pin pricked if hose is to be used to convey air above 246 PSI (17 Bar).

**Temperature Range:**

-40°F up to 248°F (257°F discontinuous)

mineral/vegetable oils

-40°F up to 158°F water based fluids

32°F up to 150°F water and air

-40°F up to 158°F external ambient.

Prolonged usage with water or water based fluids at temperatures above 158°F will allow wire corrosion as a result of diffusion through the inner tube.

### Reference Specifications

Exceeds SAE 100R13 (350 Bar)

Exceeds SAE 100R15 (420 bar)

**Approvals:**

SAE J1942 Ⓢ HF Type B

MSHA

FRAS (Fire Resistant Anti Static)

**Hose Tails:**

350 Bar = J Series 1 1/4"

420 Bar = K Series or J Series 3/8" and 1/2",

J Series 5/8", 3/4" and 1"

**PIRTEK® ENDURANCE SERIES PE442-16 1" (25.4mm) 6091 PSI (420 BAR) W.P J MSHA FRAS Ⓢ HF TYPE B 2Q21**

**Lay line example:** White text on black. **Comment:** Lay line example may not be a true indication of current status. Refer to PIRTEK for current information.

Product Code	(DN)	Nominal ID		AVG Cover OD (mm)	Working Pressure		Burst Pressure		Min. Bend Radius (mm)	Weight (lb/ft)	Series
		(in)	(mm)		PSI	Bar	PSI	Bar			
PE435-20	31	1.1/4	31.8	44.8	5076	350	20304	1400	210	1.67	J
PE442-06	10	3/8	9.5	20.0	6091	420	24364	1680	65	0.44	K/J
PE442-08	13	1/2	12.7	23	6091	420	24364	1680	90	0.57	K/J
PE442-10	16	5/8	15.9	26.6	6091	420	24364	1680	100	0.67	J
PE442-12	19	3/4	19.1	30.6	6091	420	24364	1680	120	1.01	J
PE442-16	25	1	25.4	37.8	6091	420	24364	1680	150	1.34	J

# PE6

## PIRTEK ENDURANCE SERIES®

### 6 WIRE SPIRAL HOSE



#### Construction

##### Hose Type:

Half bend radius 6 wire spiral.

##### Inner Tube:

Black synthetic rubber resistant to oils.

##### Reinforcement:

6091 PSI (420 Bar) = Six high tensile steel spirals -20 and -24

##### Cover:

Black wrapped abrasion resistant synthetic rubber cover, resistant to oils, ozone and weather conditions.

#### Applications

Extremely high pressure hose with high performance and half bend radius of SAE R15 hoses.

Higher flexibility compared with conventional spiral hoses. Suitable for mineral and vegetable oils, aqueous emulsions, water, air and inert gases.

Cover must be pin pricked if hose is to be used to convey air above 246 PSI (17 Bar).

#### Temperature Range:

-40°F up to 248°F (257°F discontinuous)

mineral/vegetable oils

-40°F up to 158°F water based fluids

32°F up to 150°F water and air

-40°F up to 158°F external ambient.

Prolonged usage with water or water based fluids at temperatures above 158°F will allow wire corrosion as a result of diffusion through the inner tube.

#### Reference Specifications

Exceeds SAE 100R15

##### Approvals:

SAE J1942 ⚡ HF Type B

MSHA

FRAS (Fire Resistant Anti Static)

##### Hose Tails:

420 Bar = H Series 1 1/4" and 1 1/2"

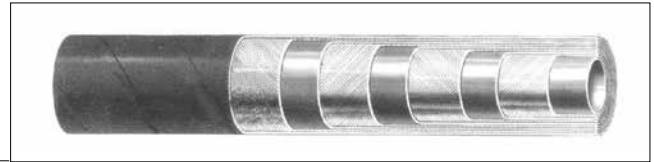
**PIRTEK®** ENDURANCE SERIES PE642-20 1 1/4" (31.8mm) 6091 PSI (420 BAR) W.P J MSHA FRAS ⚡ HF TYPE B 2Q21

**Lay line example:** White text on black. **Comment:** Lay line example may not be a true indication of current status. Refer to PIRTEK for current information.

Product Code	(DN)	Nominal ID		AVG Cover OD	Working Pressure		Burst Pressure		Min. Bend Radius	Weight	Series
		(in)	(mm)	(mm)	PSI	Bar	PSI	Bar	mm	lb/ft	
PE642-20	31	1.1/4	31.8	49.3	6091	420	24364	1680	300	2.39	H
PE642-24	38	1.1/2	38.1	57.0	6091	420	24364	1680	350	3.12	H

# C21

## ISOBARIC CLASS HOSE



### 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.

### Applications

Isobaric (constant 3,045 psi 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 at temperatures above 158°F will allow wire corrosion as a result of diffusion through the inner liner.

#### Temperature Range:

- 40°F up to +212°F mineral oil
- 40°F up to +140°F water based fluids
- +32°F up to +140°F water
- 40°F up to 158°F ambient

### Reference Specifications

JIS K6349-3

#### Approvals:

##### MSHA

FRAS AS1180.10B and 13A

#### Hose Tails:

J Series

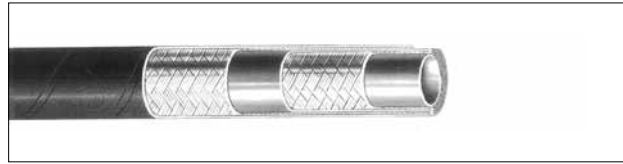
**PIRTEK C21-32 2" (50 mm) 3,045 PSI (210 BAR) MSHA IC-104/1 ABRASION RESISTANT**

**Lay line example:** White text on black. **Comment:** Lay line example may not be a true indication of current status. Refer to PIRTEK for current information.

Product Code	Nominal ID			OD mm		Pressure PSI		Minimum Bend Radius	Weight
	DN	Inch	mm	Wire	Cover	Working	Burst	mm	lb/ft
C21-32	51	2"	50.8	63.6	66.7	3,045	12,180	500	2.82

# C25

## ISOBARIC CLASS HOSE



### Construction

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

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

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

### Applications

Isobaric (constant 3,625 psi 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 at temperatures above 158°F will allow wire corrosion as a result of diffusion through the inner liner.

#### Temperature Range:

#### Braided Hoses:

- 40°F up to +212°F mineral oil
- 40°F up to +140°F water based fluids
- +32°F up to +140°F water
- 40°F up to 158°F ambient

### Reference Specifications

Meets or exceeds SAE J 517 (100 R16).  
Meets or exceeds EN 857 2SC.  
Tested in accordance with SAE J517, EN856, AS3791.

#### Approvals:

SAE J1942 Ⓢ HF Type B  
MSHA Approval No. IC-104/3  
applies to all sizes.

#### Impulse Testing:

Braided hoses as per SAE 100 R16.

#### Hose Tails:

J Series

**PIRTEK C25 1" (25.4 mm) 3625 PSI (250 BAR) MSHA FRAS Ⓢ HF TYPE B ABRASION RESISTANT**

**Lay line example:** White text on black. **Comment:** Lay line example may not be a true indication of current status. Refer to PIRTEK for current information.

Product Code	Nominal ID			Type	OD mm		Pressure PSI		Minimum Bend Radius	Weight
	DN	Inch	mm		Wire	Cover	Working	Burst		
C25-16	25	1	25.4	2 braid	32.9	35.6	3,625	14,504	250	0.87

# C35

## ISOBARIC CLASS HOSE



### 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 PVC nitrile rubber resistant to oils, ozone and weathering.

### Applications

Isobaric (constant 5,076 psi 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 at temperatures above 70°F will allow wire corrosion as a result of diffusion through the inner liner.

#### Temperature Range:

##### Spiral hoses:

-40°F up to +248°F mineral oil  
-40°F up to +158°F water based fluids  
+32°F up to +158°F water  
-40°F up to 158°F ambient

##### Braided hoses:

-40°F up to +212°F mineral oil  
-40°F up to +140°F water based fluids  
+32°F up to +140°F water  
-40°F up to 158°F ambient

### Reference Specifications

Meets or exceeds SAE J 517 (100 R12, R13 or R16).

Meets or exceeds EN 857 2SC.

Tested in accordance with SAE J 517, EN856, AS3791.

#### Approvals:

SAE J1942 ⚡ HF Type B

#### MSHA

FRAS AS1180.10B and 13A

#### Impulse Testing:

Braided hoses as per SAE 100 R16 and R12

#### Hose Tails:

K Series and J Series 5/8"

J Series 3/4" to 1"

H Series 2"

Interlock Series 1 1/4" and above

**PIRTEK CLASS 35-08 1/2" (12.7 mm) 5076 PSI (350 BAR) MSHA FRAS ⚡ HF TYPE B ABRASION RESISTANT**

**Lay line example:** White text on braided hose. **Comment:** Lay line example may not be a true indication of current status. Refer to PIRTEK for current information.

Product Code	Nominal ID			Reinforcement	OD mm		Pressure PSI		Minimum Bend Radius	Weight
	DN	Inch	mm		Wire	Cover	Working	Burst	mm	lb/ft
C35-05	8	5/16	7.9	2 braid	13.0	14.7	5,510	22,040	85	0.23
C35-06	10	3/8	9.5	2 braid	15.3	17.2	5,076	20,305	90	0.28
C35-08 *	12	1/2	12.7	2 braid	20.1	22.2	5,076	20,305	130	0.42
C35-10 †	16	5/8	16.1	4 spiral	23.7	27.4	5,076	20,305	200	0.67
C35-12	19	3/4	19.2	4 spiral	28.1	30.7	5,076	20,305	220	1.01
C35-16	25	1	25.6	4 spiral	35.6	38.7	5,076	20,305	280	1.48
C35-24	38	1 1/2	38.5	6 spiral	52.5	55.6	5,076	20,305	480	2.96
C35-32 *	51	2	51.2	6 spiral	68.1	71.1	5,076	20,305	600	4.64

† Meets or exceeds SAE100 R12 except for reinforcement OD

\*Note: C35-08 and C35-32 is only included in SAE J1942 ⚡ HF Type B



# C42

## ISOBARIC CLASS HOSE



### Construction

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

**Reinforcement:** Two braids of high tensile steel wire (C42-04), or 4-6 spirals of high tensile steel wire.

**Cover:** Abrasion resistant black synthetic rubber resistant to oils, ozone and weathering (PVC nitrile rubber on braided hoses).

### Applications

Isobaric (constant 6,091 psi 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 at temperatures above 158°F will allow wire corrosion as a result of diffusion through the inner liner.

### Temperature Range:

#### Spiral hoses:

- 40°F up to +248°F mineral oil
- 40°F up to +158°F water based fluids
- +32°F up to +158°F water
- 40°F up to 158°F ambient

#### Braided hoses:

- 40°F up to +212°F mineral oil
- 40°F up to +140°F water based fluids
- +32°F up to +140°F water
- 40°F up to 158°F ambient

### Reference Specifications

Tested in accordance with SAE J517, EN856, AS3791.

### Approvals:

#### MSHA

FRAS AS1180.10B and 13A

### Impulse Testing:

Braided hoses as per SAE 100 R16

Spiral hoses as per SAE 100 R12, R15

### Hose Tails:

K Series to 1/2"

J Series 3/8" to 1"

H Series 1 1/4" to 1 1/2"

Interlock 1 1/4" to 1 1/2"

**PIRTEK CLASS C42-12 3/4" (19 mm) 6091 PSI (420 BAR) MSHA IC-104/3 ABRASION RESISTANT**

**Lay line example:** White text on braided hoses. Yellow text on spiral hoses. **Comment:** Lay line example may not be a true indication of current status. Refer to PIRTEK for current information.

Product Code	Nominal ID			Reinforcement	OD mm		Pressure PSI		Min. Bend Radius	Weight
	DN	Inch	mm		Wire	Cover	Working	Burst		
C42-04	6	1/4	6.4	2 braid	12.7	14.9	6,091	24,364	75	0.27
C42-10	16	5/8"	16.0	4 spiral	24.4	26.4	6,091	24,364	140	0.67
C42-12	19	3/4	19.2	4 spiral	28.1	32.0	6,091	24,364	280	1.01
C42-16	25	1	25.7	4 spiral	35.6	38.2	6,091	24,364	300	1.48
C42-20	31	1 1/4	32.2	6 spiral	46.8	49.8	6,091	24,364	400	2.62
C42-24	38	1 1/2	38.5	6 spiral	54.0	57.2	6,091	24,364	500	3.16
C42-32	51	2	51.2	6 spiral	70.6	75.0	6,091	24,364	600	5.32

# PC25

## PIRTEK CLASS HOSE



### Construction

#### Inner Tube:

Seamless synthetic rubber, oil resistant.

#### Reinforcement:

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

#### Cover:

High abrasion resistance black synthetic rubber resistant to oils, ozone and weathering.

### Applications

Isobaric (constant 3,625 psi working pressure across all sizes) hose for hydraulic fluids such as mineral oils, aqueous emulsions, water, air and inert gases. **Excellent compact bend radius.**

#### Temperature Range:

##### Spiral hoses:

-40°F up to +248°F mineral oil  
 -40°F up to +158°F water based fluids  
 +32°F up to +158°F water  
 -40°F up to 158°F ambient

##### Braided hoses:

-40°F up to +212°F mineral oil  
 -40°F up to +140°F water based fluids  
 +32°F up to +140°F water  
 -40°F up to 158°F ambient

### Reference Specifications

Tested in accordance with performance specifications:  
 SAE 100R16 (braided hose)  
 SAE 100R12 (spiral hose)

#### Approvals:

SAE J1942 ⌀ HF Type B  
 MSHA  
 AS2660 test requirements-  
 AS1180.10B and AS1180.13A (FRAS)

Prolonged usage with water or water based fluids at temperatures above 158°F will allow wire corrosion as a result of diffusion through the inner liner.

#### Hose Tails:

K Series to 5/8"  
 J Series 3/4" to 1 1/2"

**PIRTEK PC25-12 3/4" (19 MM) 3625 PSI (250 BAR) MSHA FRAS ⌀ HF TYPE B ABRASION RESISTANT**

**Lay line example:** White text on black. **Comment:** Lay line example may not be a true indication of current status. Refer to PIRTEK for current information.

Product Code	Nominal ID			Reinforcement	OD mm		Pressure PSI		Min. Bend Radius	Weight
	DN	Inch	mm		Wire	Cover	W.P.	Min. Burst		
PC25-10	16	5/8	15.9	2 braid	23.6	26.0	3,625	14,500	140	0.56
PC25-12	20	3/4	19.1	2 braid	26.2	29.1	3,625	14,500	170	0.64
PC25-20	32	1 1/4	31.8	4 spiral	41.6	44.9	3,625	14,500	280	1.58
PC25-24	40	1 1/2	38.1	4 spiral	49.5	52.4	3,625	14,500	330	2.06

# PC35

## PIRTEK CLASS HOSE



### Construction

#### Inner Tube:

Seamless synthetic rubber, oil resistant.

#### Reinforcement:

Two braids of high tensile steel wire.

#### Cover:

High abrasion resistant black synthetic rubber resistant to oils, ozone and weathering.

### Applications

Isobaric (constant 5,076 psi working pressure) hose for hydraulic fluids such as mineral oils, aqueous emulsions, water, air and inert gases.

#### Excellent compact bend radius

#### Temperature Range:

##### Spiral hoses:

-40°F up to +248°F mineral oil  
 -40°F up to +158°F water based fluids  
 +32°F up to +158°F water  
 -40°F up to 158°F ambient

##### Braided hoses:

-40°F up to +212°F mineral oil  
 -40°F up to +140°F water based fluids  
 +32°F up to +140°F water  
 -40°F up to 158°F ambient

### Reference Specifications

Tested in accordance with performance specifications:

SAE R16 (braided hose)

#### Approvals:

SAE J1942 ⊕ HF Type B

MSHA

AS2660 test requirements-

AS1180.10B and AS1180.13A (FRAS)

Prolonged usage with water or water based fluids at temperatures above 158°F will allow wire corrosion as a result of diffusion through the inner liner.

#### Hose Tails:

K Series 3/8" to 5/8"

J Series 3/4" and 1"

H Series 1 1/4"

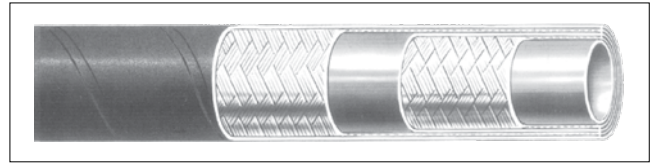
**PIRTEK CLASS PC35-12 3/4" (19 MM) 5076 PSI (350 BAR) MSHA FRAS ⊕ HF TYPE B ABRASION RESISTANT**

**Lay line example:** White text on black. **Comment:** Lay line example may not be a true indication of current status. Refer to PIRTEK for current information.

Product Code	Nominal ID			Reinforcement	OD mm		Pressure PSI		Min. Bend Radius	Weight
	DN	Inch	mm		Wire	Cover	W.P.	Min. Burst		
PC35-06	10	3/8	9.5	2 braids	17.0	19.2	5,076	20,305	90	0.37
PC35-10	16	5/8	15.9	4 spirals	24.4	26.4	5,076	20,305	140	0.67
PC35-12	20	3/4	19.1	4 spirals	27.0	29.0	5,076	20,305	170	0.76
PC35-16	25	1	25.4	4 spirals	34.6	36.6	5,076	20,305	220	1.34
PC35-20	32	1 1/4	31.8	6 spirals	45.6	48.7	5,076	20,305	280	2.55

# PC42

## PIRTEK CLASS HOSE



### Construction

#### Inner Tube:

Seamless synthetic rubber, oil resistant.

#### Reinforcement:

Two braids of high tensile steel wire.

#### Cover:

High abrasion resistance black synthetic rubber resistant to oils, ozone and weathering.

### Applications

Isobaric (constant 6,091 psi working pressure) hose for hydraulic fluids such as mineral oils, aqueous emulsions, water, air and inert gases.

**Excellent compact bend radius.**

#### Temperature Range:

##### Spiral hoses:

-40°F up to +248°F mineral oil  
 -40°F up to +158°F water based fluids  
 +32°F up to +158°F water  
 -40°F up to 158°F ambient

##### Braided hoses:

-40°F up to +212°F mineral oil  
 -40°F up to +140°F water based fluids  
 +32°F up to +140°F water  
 -40°F up to 158°F ambient

### Reference Specifications

Tested in accordance with performance specifications: SAE 100 R16

#### Approvals:

SAE J1942 Ⓢ HF Type B  
 AS2660 test requirements-  
 AS1180.10B and AS1180.13A (FRAS)

Prolonged usage with water or water based fluids at temperatures above 158°F will allow wire corrosion as a result of diffusion through the inner liner.

#### Hose Tails:

K Series 1/4"

**PIRTEK CLASS PC42-04 1/4" (6.4 MM) 6091 PSI (420 BAR) MSHA FRAS Ⓢ HF TYPE B ABRASION RESISTANT**

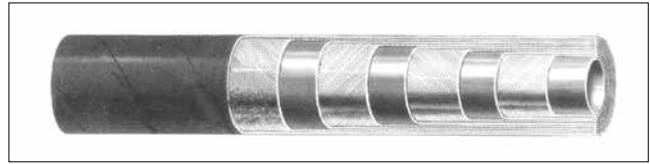
**Lay line example:** White text on black. **Comment:** Lay line example may not be a true indication of current status. Refer to PIRTEK for current information.

Product Code	Nominal ID			Reinforcement	OD mm		Pressure PSI		Minimum Bend Radius	Weight
	DN	Inch	mm		Wire	Cover	W.P.	Min. Burst		
PC42-04 *	6	1/4	6.4	2 braids	12.7	14.9	6,091	24,364	70	0.26

\*Note: PC42-04 is only included in SAE J1942 Ⓢ HF Type B

# JBF

## LARGE BORE HOSE



### 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 at temperatures above 58°F will allow wire corrosion as a result of diffusion through the

inner liner.

### Temperature Range:

-40°F up to +212°F mineral oil

-40°F up to +158°F water based fluids

32°F up to +158°F water

-40°F up to +158°F air / ambient

### Reference Specifications

SAE J517 except for reinforcement OD

### Approvals:

#### MSHA

FRAS AS1180.10B and 13A

### Hose Tails: PIRTEK

BSMS Series

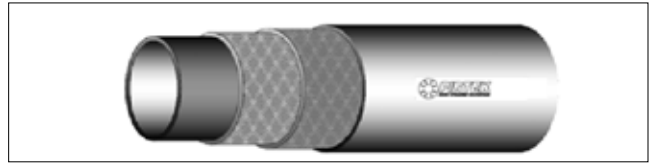
**PIRTEK JUMBO ACE 63mm (2 1/2") JBF-40 140 BAR (2030 PSI) WP MSHA IC/104/1 FRAS ABRASION RESISTANT**

**Lay line example:** Light yellow text on black. **Comment:** Lay line example may not be a true indication of current status. Refer to PIRTEK for current information.

Product Code	Nominal ID			Type	OD mm		Pressure PSI		Minimum Bend Radius mm	Weight lb/ft	Test Impulses No.
	DN	Inch	mm		Wire	Cover	Working	Burst			
JBF-40	63	2.1/2	63.5	4 spiral	76.8	82.4	2,030	8,120	660	3.69	500,000

# TPR7

## MEDIUM PRESSURE THERMOPLASTIC HOSE



### Construction

#### Inner Tube:

Smooth seamless thermoplastic polyamide.

#### Reinforcement:

Polyester fiber braid.

#### Cover:

Black perforated antiabrasion polyurethane, stabilized to UV rays.

### Applications

Medium pressure hydraulic and pneumatic service. For hydraulic and pneumatic circuits and systems found on agricultural, industrial, and construction equipment. Ideal for use at low temperature on fork trucks in refrigerated warehouses and has an excellent bend radius.

#### Temperature Range:

-65°F up to +212°F

Max +158°F with air, water, water based fluids or fire resistant fluids.

### Reference Specifications

SAE 100R7 - EN855 and ISO 3949

Note: REFER to chemical resistance table at the back of this section for compatibility.

#### Vacuum Rating:

-13.5 psi (27.5 in Hg)

Safety Factor 4:1

#### Cutting:

Hand Cutting is recommended for this hose.

#### Hose Tails:

T Series

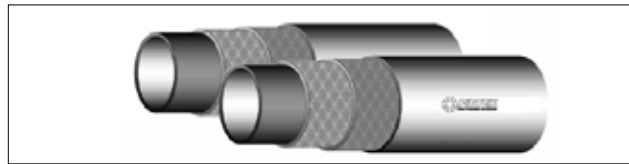
**PIRTEK® TPR7-06 3/8" (9.7 mm) W.P. 2537 PSI (175 BAR)**

**Lay line example:** White text on black. **Comment:** Lay line example may not be a true indication of current status. Refer to PIRTEK for current information.

Product Code	Nominal ID			OD mm	Pressure PSI		Minimum Bend Radius	Weight
	DN	Inch	mm		Working	Minimum Burst		
TPR7-02	3	1/8	3.5	8.5	3,335	13,340	25	0.04
TPR7-03	5	3/16	4.8	10.0	3,045	12,180	30	0.05
TPR7-04	6	1/4	6.4	11.8	2,900	11,600	35	0.06
TPR7-05	8	5/16	8.0	14.3	2,755	11,020	45	0.09
TPR7-06	10	3/8	9.7	16.0	2,537	10,150	55	0.10
TPR7-08	12	1/2	13.0	20.3	2,030	8,120	75	.15

# TPR7X2

## TWIN LINE MEDIUM PRESSURE THERMOPLASTIC HOSE



### Construction

**Inner Tube:**

Smooth seamless thermoplastic polyester.

**Reinforcement:**

Polyester fiber braid.

**Cover:**

Black perforated antiabrasion polyurethane, stabilized to UV rays.

### Applications

Medium pressure hydraulic and pneumatic service. For hydraulic and pneumatic circuits and systems found on agricultural, industrial, and construction equipment.

**Temperature Range:**

-40°F up to +212°F

Max +158°F with air, water, water based fluids or fire resistant fluids.

### Reference Specifications

SAE 100R7 - EN855 and ISO 3949

Note: REFER to chemical resistance table at the back of this section for compatibility.

**Vacuum Rating:**

-13.5 psi (27.5 in Hg)

Safety Factor 4:1

**Cutting:**

Hand Cutting is recommended for this hose.

**Hose Tails:**

T Series

**PIRTEK® TPR7X2-06 3/8" (9.7 mm) W.P. 2537 PSI (175 BAR)**

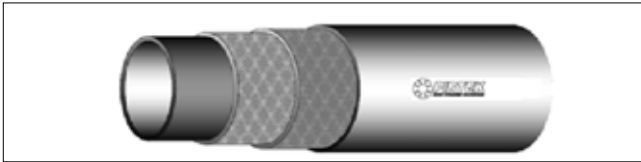
**Lay line example:** White text on black. **Comment:** Lay line example may not be a true indication of current status. Refer to PIRTEK for current information.

Product Code	Nominal ID			OD mm	Pressure PSI		Minimum Bend Radius	Weight
	DN	Inch	mm	Cover	Working	Minimum Burst	mm	lb/ft
TPR7X2-03	5	3/16	4.8	10.0	3,045	12,180	30	0.10
TPR7X2-04	6	1/4	6.4	11.8	2,900	11,600	35	0.13
TPR7X2-05	8	5/16	8.0	14.3	2,755	11,020	45	0.18
TPR7X2-06	10	3/8	9.7	16.0	2,537	10,150	55	0.22
TPR7X2-08	12	1/2	13.0	20.3	2,030	8,120	75	0.31



# TPR7NC

## NON-CONDUCTIVE THERMOPLASTIC HOSE



### Construction

**Inner Tube:**

Smooth seamless thermoplastic polyester.

**Reinforcement:**

Polyester fiber braid.

**Cover:**

Orange non perforated antiabrasion polyurethane, stabilized to UV rays.

### Applications

General hydraulic systems that may contact high voltage sources.

Aerial equipment.

Mobile hydraulics.

Rescue apparatus and tools.

Flexible at low temperatures and has an excellent bend radius.

**Temperature Range:**

-40°F up to +212°F

Max +158°F with air, water, water based fluids or fire resistant fluids.

### Reference Specifications

ANSI A92.2 for Vehicle Mounted Aerial Devices

SAE J517 Non-conductive hose

Construction SAE 100R7

Note: REFER to chemical resistance table at the back of this section for compatibility.

**Vacuum Rating:**

-13.5 psi (27.5 in Hg)

Safety Factor 4:1

**Cutting:**

Hand Cutting is recommended for this hose.

**Hose Tails:**

T Series

**PIRTEK® TPR7NC-06 3/8" (9.7 mm) W.P. 2537 PSI (175 BAR) SAE 100R7 NON-CONDUCTIVE (ANSI A92.2)**

**Lay line example:** Black text on orange hose. **Comment:** Lay line example may not be a true indication of current status. Refer to PIRTEK for current information.

Product Code	Nominal ID			OD mm	Pressure PSI			Minimum Bend Radius	Weight
	DN	Inch	mm	Cover	SAE Working	ANSI A92.2 Working	SAE Minimum Burst	mm	lb/ft
TPR7NC-02*	3	1/8	3.5	8.5	3,335	3,481	13,340	25	0.04
TPR7NC-03	5	3/16	4.8	10.0	3,045	3,249	12,180	30	0.05
TPR7NC-04	6	1/4	6.4	11.8	2,900	3,191	11,600	35	0.06
TPR7NC-05	8	5/16	8.0	14.3	2,755	3,191	11,020	45	0.09
TPR7NC-06	10	3/8	9.7	16.0	2,537	3,046	10,150	55	0.10
TPR7NC-08	12	1/2	13.0	20.3	2,030	2,683	8,120	75	0.15

\* Available upon request

**Safety Factor:**

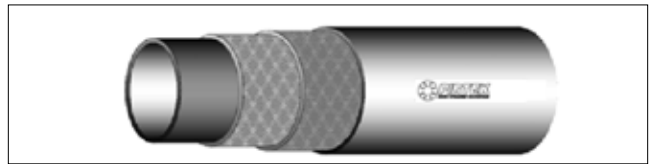
A safety factor of 4 to 1 is required in the case in which the breaking of the tubing may cause the rig or the load lifting device or both to move.

A safety factor of 3 to 1 is acceptable in the case in which the breaking of the tubing does not cause the aerial lifting devices to move.

The SAE Standard requires Safety factor 4 to 1.

# TPR8

## HIGH PRESSURE THERMOPLASTIC HOSE



### Construction

**Inner Tube:**

Smooth seamless thermoplastic polyamide.

**Reinforcement:**

Two layers of polyester braid.

**Cover:**

Black perforated antiabrasion polyurethane, stabilized to UV rays.

### Applications

High pressure general hydraulic systems, polyols, solvents and compatible gasses. Suitable for tank to tank ONLY oxygen and breathing air mixtures. Not recommended for use over pulleys.

**Temperature Range:**

-65°F up to +212°F  
Max +158°F with air, water, water based fluids or fire resistant fluids.

### Reference Specifications

SAE 100R8 performance with R7 dimensions

**Note:**

Refer to chemical resistance table at the back of this section for compatibility.

**Vacuum Rating:**

-13.5 psi (27.5 in Hg)  
Safety Factor 4:1

**Cutting:**

Hand Cutting is recommended for this hose.

**Hose Tails:**

T Series

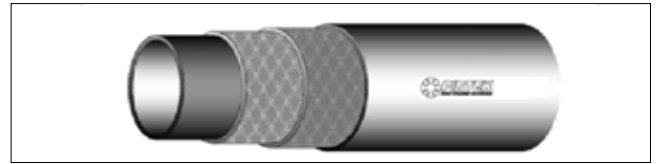
**PIRTEK® TPR8-06 3/8" (9.7 mm) W.P. 4060 PSI (280 BAR)**

**Lay line example:** White text on black. **Comment:** Lay line example may not be a true indication of current status. Refer to PIRTEK for current information.

Product Code	Nominal ID			OD mm	Pressure PSI		Minimum Bend Radius	Weight
	DN	Inch	mm		Cover	Working		
TPR8-04	6	1/4	6.4	11.8	5,075	20,300	50	0.06
TPR8-06	10	3/8	9.7	16.0	4,060	16,240	70	0.09
TPR8-08	12	1/2	13.0	20.3	3,552	14,210	95	0.15

# TPR8NC

## NON-CONDUCTIVE THERMOPLASTIC HOSE



### Construction

**Inner Tube:**

Smooth seamless thermoplastic polyamide.

**Reinforcement:**

Polyester fiber braid.

**Cover:**

Orange non perforated antiabrasion polyurethane, stabilized to UV rays.

### Applications

General hydraulic systems that may contact high voltage sources.

Aerial equipment.

Mobile hydraulics.

Rescue apparatus and tools.

Flexible at low temperatures and has an excellent bend radius.

**Temperature Range:**

-65°F up to +212°F

Max +158°F with air, water, water based fluids or fire resistant fluids.

### Reference Specifications

SAE J517 Non-conductive hose

Construction

SAE 100R8

Note: Refer to chemical resistance table at the back of this section for compatibility.

**Vacuum Rating:**

-13.5 psi (27.5 in Hg)

Safety Factor 4:1

**Cutting:**

Hand Cutting is recommended for this hose.

**Hose Tails:**

T Series

**PIRTEK®** TPR8NC-06 3/8" (9.7 mm) W.P. 4060 PSI (280 BAR) SAE 100R8 NON-CONDUCTIVE

**Lay line example:** Black text on orange hose. **Comment:** Lay line example may not be a true indication of current status. Refer to PIRTEK for current information.

Product Code	Nominal ID			OD mm	Pressure PSI		Minimum Bend Radius	Weight
	DN	Inch	mm	Cover	Working	Minimum Burst	mm	lb/ft
TPR8NC-04	6	1/4	6.4	11.8	5,075	20,300	50	0.06
TPR8NC-06	10	3/8	9.7	16.0	4,060	16,240	70	0.09
TPR8NC-08	12	1/2	13.0	20.3	3,552	14,210	95	0.15

# TP1W

## 1 WIRE THERMOPLASTIC HOSE



### Construction

#### Inner Tube:

Smooth seamless thermoplastic polyester.

#### Reinforcement:

One layer of high tensile steel braid.

#### Cover:

Black perforated antiabrasion polyurethane, stabilized to UV rays, resistant to micro-organisms and good protection against hydrolysis .

### Applications

TP1W LOW TEMPERATURE series

hoses have been created for hydraulic use at high pressure. Suitable for gas transfer.

This hose is particularly recommended on mobile hydraulic equipment including lift trucks.

Refer to chemical resistance table at the back of this section.

#### Temperature Range:

-65°F up to +212°F

Max 158°F with air, water, water based fluids or fire resistant fluids.

### Reference Specifications

These hoses meet or exceed standards:

SAE 100 R1AT - EN 853 1ST, 1SN - EN 857 1SC pressures

#### Vacuum Rating:

-13.5 psi (27.5 in Hg)

#### Cutting:

Smooth blade recommended for cutting.

#### Hose Tails:

T Series

**PIRTEK TP1W-08 1/2" (12.7 mm) W.P. 2755 P.S.I. (190 BAR)**

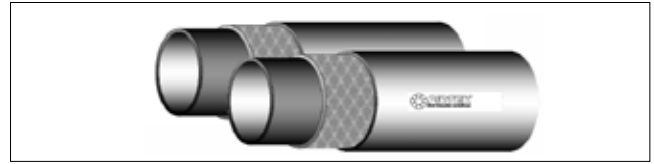
**Lay line example:** White text on black. **Comment:** Lay line example may not be a true indication of current status. Refer to PIRTEK for current information.

Product Code	Nominal ID			OD mm	Pressure PSI		Minimum Bend Radius	Weight
	DN	Inch	mm	Cover	Working	Minimum Burst	mm	lb/ft
TP1W-03*	5	3/16	4.8	10.0	4,712	18,850	30	0.09
TP1W-04*	6	1/4	6.4	11.9	4,350	17,400	40	0.11
TP1W-05*	8	5/16	8.0	14.0	3,480	13,920	50	0.15
TP1W-06	10	3/8	9.7	16.0	3,262	13,050	60	0.18
TP1W-08	12	1/2	13.0	19.2	2,755	11,020	75	0.22

\* Available upon request

# TP1WX2

## TWIN LINE 1 WIRE THERMOPLASTIC HOSE



### Construction

#### Inner Tube:

Smooth seamless thermoplastic polyester.

#### Reinforcement:

One layer of high tensile steel braid.

#### Cover:

Black perforated antiabrasion polyurethane, stabilized to UV rays, resistant to micro-organisms and good protection against hydrolysis.

### Applications

TP1W LOW TEMPERATURE series hoses have been created for hydraulic use at high pressure. Suitable for gas transfer. This hose is particularly recommended on mobile hydraulic equipment including lift trucks. Refer to chemical resistance table at the back of this section.

#### Temperature Range:

-65°F up to +212°F  
Max 158°F with air, water, water based fluids or fire resistant fluids .

### Reference Specifications

These hoses meet or exceed standards: SAE 100 R1AT - EN 853 1ST, 1SN - EN 857 1SC pressures

#### Vacuum Rating:

-13.5 psi (27.5 in Hg)

#### Cutting:

Smooth blade recommended for cutting.

#### Hose Tails:

T Series

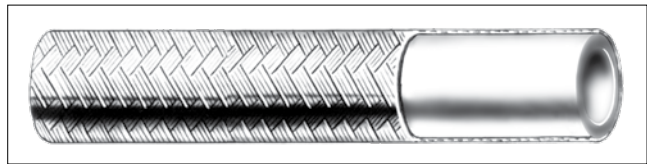
**PIRTEK TP1WX2-08 1/2" (12.7 mm) W.P. 2755 P.S.I. (190 BAR)**

**Lay line example:** White text on black. **Comment:** Lay line example may not be a true indication of current status. Refer to PIRTEK for current information.

Product Code	Nominal ID			OD mm	Pressure PSI		Minimum Bend Radius	Weight
	DN	Inch	mm	Cover	Working	Minimum Burst	mm	lb/ft
TP1WX2-03*	5	3/16	4.8	10.0	4,712	18,850	30	0.18
TP1WX2-04*	6	1/4	6.4	11.9	4,350	17,400	40	0.24
TP1WX2-05*	8	5/16	8.0	14.0	3,480	13,920	50	0.31
TP1WX2-06	10	3/8	9.7	16.0	3,262	13,050	60	0.37
TP1WX2-08	12	1/2	13.0	19.2	2,755	11,020	75	0.45

\* Available upon request

# 100STH PTFE (TEFLON®) HOSE



## Construction

### Inner Tube:

Extruded seamless smooth bore 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 molding presses.

Hazardous chemicals.

Compressor discharge.

### Temperature Range:

-65°F up to +446°F\* (see notes below)

### Comment:

No lay line present due to the stainless steel braid.

## Reference Specifications

SAE 100 R14

**Additional Product Options:** A graphite impregnated (black) Teflon® liner is available via special order for applications requiring a core tube capable of safely conducting static electricity. Consult PIRTEK for details.

### Impulse Testing:

No information available.

### Hose Tails:

T Series

Product Code	Nominal ID			Average OD	Wall Thickness	Pressure PSI		Minimum Bend Radius	Vacuum Service
	Braiding	mm	in			mm	mm		
STH-03	1 Braid	4.8	3/16	7.6	0.762	3,000	12,000	36	28.90
STH-04	1 Braid	6.35	1/4	9.4	0.762	3,000	12,000	45	28.90
STH-05	1 Braid	7.94	5/16	10.2	0.762	2,500	10,000	50	28.90
STH-06 +	1 Braid	9.5	3/8	12.5	0.762	2,250	9,000	56	28.90
STH-08 +	1 Braid	12.7	1/2	14.9	0.762	1,750	7,000	70	28.90
STH-10 +	1 Braid	15.9	5/8	20.3	0.762	1,500	6,000	130	15.00
STH-12 +	1 Braid	19.05	3/4	22.1	0.762	1,100	4,400	190	15.00
STH-16 +	2 Braid	25.4	1	29.2	0.762	900	3,600	270	13.00

+ Use of an internal support coil for hoses -06 and larger is recommended for tube support where continuous or extended service at high temperature together with low or negative pressure is expected.

**Not recommended for steam / cold water cycling**

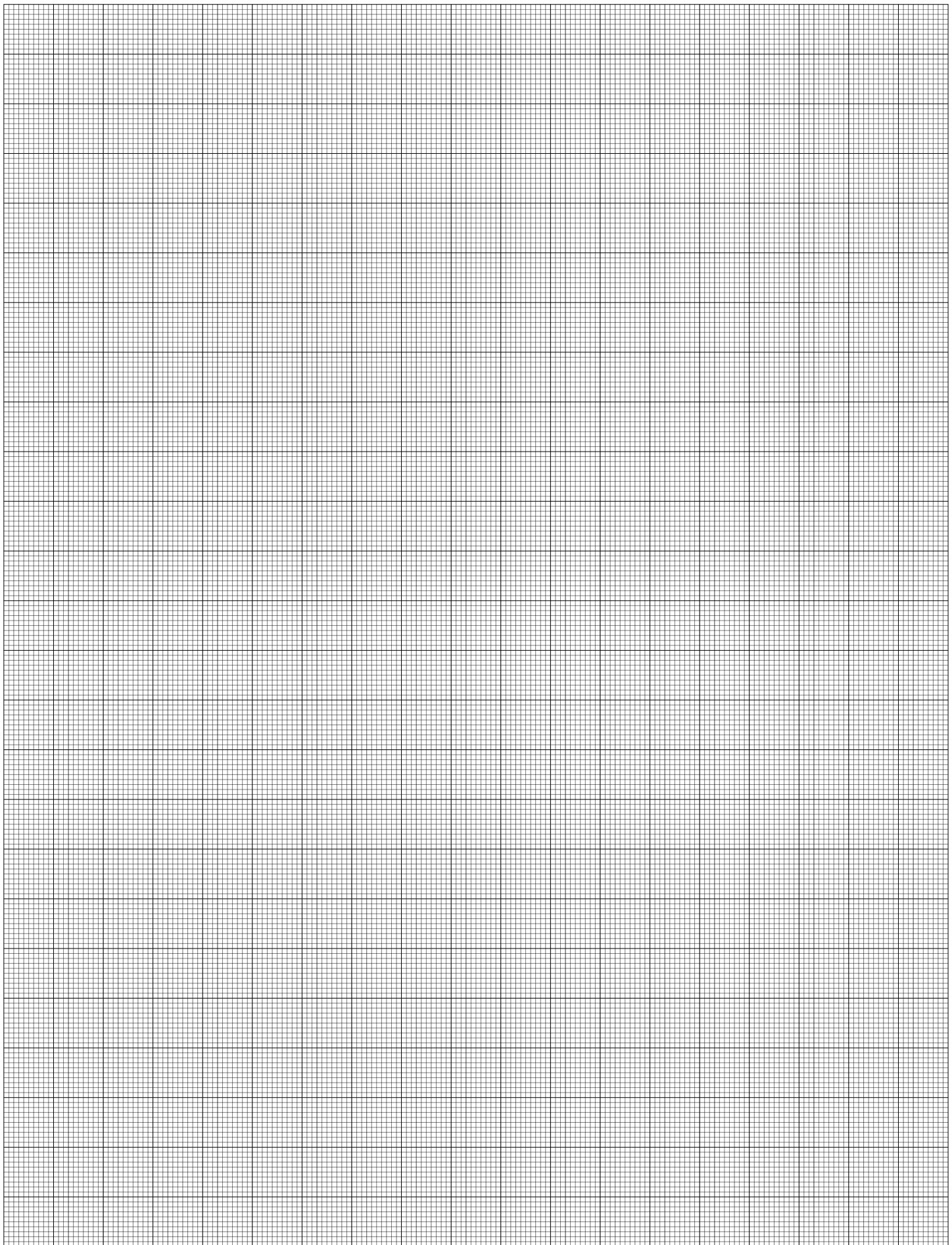
### \*For temperatures above 248°F

**Pressure:** Reduce working pressure by 1% per additional degree F.

**Vacuum:** Reduce vacuum rating by 1.5% per additional degree F.

**Note:** The minimum bend radius quoted is for a static bend at ambient temperature.

Dynamic bending, especially at elevated temperatures, will increase the minimum bend radius accordingly. Consult PIRTEK for specific applications.






# TECHNICAL DATA

## SUMMARY OF PIRTEK HYDRAULIC HOSE MATERIALS

Product Code	Type	Description	Liner Material	Cover Material
PE2	RUBBER	Two Wire Braid Hybrid Hose	NBR (Class 1)	NBR (Class 1)
PE4-6		Half Bend Radius, Four and Six Wire Spiral Hose	NBR (Class 1)	NBR (Class 1)
C21		3045 psi Four Spiral Hose	NBR (Class 1)	NBR (Class 1)
C25		3625 psi Four Spiral Hose	NBR (Class 1)	NBR (Class 1)
C35		5076 psi Braid or Spiral Hose	NBR (Class 1)	NBR (Class 1)
C42		6091 psi Braid or Spiral Hose	NBR (Class 1)	NBR (Class 1)
PC25		High Abrasion Resistance 3625 psi Hose	NBR (Class 1)	NBR (Class 1)
PC35		High Abrasion Resistance 5076 psi Hose	NBR (Class 1)	NBR (Class 1)
PC42		High Abrasion Resistance 6091 psi Hose	NBR (Class 1)	NBR (Class 1)
R1AT		One Wire Braid Hose	NBR (Class 1)	NBR (Class 1)
R2AT		Two Wire Braid Hose	NBR (Class 1)	NBR (Class 1)
R2ATHT		High Temp. Two Wire Braid Hose	NBR (Class 2)	NBR (Class 4)
100R5		Engine & Air Brake Hose	NBR (Class 1)	Fiber
R5HT		High Temp. Air Brake Hose	NBR (Class 2)	Polyester
PW3600B		3600 psi Pressure Washer Hose	NBR (Class 1)	NBR (Class 1)
PW4500		4500 psi Pressure Washer Hose	NBR (Class 1)	NBR (Class 1)
R17		Sae 100R17 3000 psi Hose	NBR (Class 1)	NBR (Class 1)
100R4		Hydraulic Suction Delivery	NBR (Class 1)	NBR (Class 1)
R4HT		High Temp. Hydraulic and Delivery	NBR (Class 2)	NBR (Class 4)
MPH		Multi-Purpose Oil & Air Hose	NBR (Class 1)	NBR (Class 1)
JH70	Jacking Hose	NBR (Class 1)	NBR (Class 1)	
JBF	Large Bore Four Spiral Hose	NBR (Class 1)	NBR (Class 1)	
TPR7	THERMOPLASTIC	General Purpose Sae 100R7	Polyester	Polyurethane
TPR7X2		General Purpose Twin Line SAE 100R7	Polyamide (Nylon)	Polyurethane
TPR7NC		Non-Conductive SAE R7	Polyester	Polyurethane
TP1W		One Wire Thermoplastic	Polyester	Polyurethane
TP1WX2		One Wire Thermoplastic Twin Line	Polyester	Polyurethane
TPR8		High Pressure Compact SAE R8	Polyamide (Nylon)	Polyurethane
TPR8NC		High Pressure Non-Conductive SAE R8	Polyamide (Nylon)	Polyurethane
STH		Stainless Steel Braid Over Teflon®	Teflon®	Stainless steel

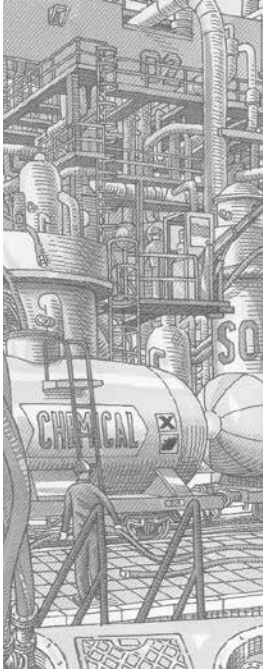
 WARNING: This product may contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm. For more information please visit: [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov)



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# TECHNICAL DATA

## CHEMICAL RESISTANCE TABLE



### CAUTION

The data in the following pages has been compiled from generally available sources and should not be relied upon without consulting and following the specific recommendations of the manufacturers of particular products.

The data is considered valid at 70°F (20°C) except where specified otherwise. Chemical compatibility can vary greatly with temperature.

A good rating does not necessarily indicate the suitability of a particular hose and chemical combination due to variables such as improper clamp and coupling application, special hose construction, gasket material etc. Nor does it imply compliance with relevant food standards or safety standards that may be applicable.

### SOLVENT INFORMATION

**Aromatic solvents:** benzene, cumene, p-cumene, naphthalene, toluene, xylene, cresol, styrene, cyclohexane and combinations

**Aliphatic solvents:** propane, butane, pentane, hexane, heptane, dipetene, tripropylene

**Halogenous solvents:** chloroform, dichlorobenzene, dichloroethylene, methylen bromide, methylen chloride, benzyl chloride, carbon tetrachloride, trichloroethylene, carbon disulphite, turpentine, perchloroethylene, dichloroethane

**Ketonic solvents:** acetone, methyl ketone, isobutyl ketone, methyl ethyl ketone, methyl isobutyl ketone

**Esters solvents:** butyl acetate, methyl acetate, anyl acetate, isobutyl acetate

**Amines:** aniline, ethylene diamine, diethanol amine, triethanolamine, dimethyl amine, monoethanolamine

**Alcohols:** methanol, ethanol, propanol, butanol, glycerol

Common Elastomers	ASTM Designation	Composition	General Properties
Brominated Butyl Chlorinated Butyl	<b>BIIR</b> <b>CIIR</b>	Bromo Isobutene-Isoprene Chloro Isobutene-Isoprene	Excellent weathering resistance, low permeability to air and gases, good physical properties, resistant to heat poor resistance to petroleum based fluids, good resistance to fat.
Chlorinated Polyethylene	<b>CM (CPE)</b>	Chloro Polyethylene	Excellent ozone and weathering resistance, good oil and chemical resistance, excellent flame resistance.
Cross-Linked Polyethylene	<b>XLPE</b> <b>UHMWPE</b>	Polyethylene and Cross Linking Agent	Excellent for a very wide range of solvents, chemicals, acids and oils.
Ethylene Propylene	<b>EPDM</b>	Ethylene Propylene Diene-Terpolymer	Excellent ozone, chemical and aging resistance, poor resistance to petroleum based fluids, very good steam resistance.
Ethylene Propylene	<b>EPM (EPR)</b>	Ethylene Propylene Copolymer	Excellent ozone, weathering, heat, chemical and aging resistance, poor resistance to petroleum products, very good steam resistance
Hypalon®	<b>CSM</b>	Chloro-Sulfonyl-Polyethylene	Excellent weathering, ozone and acid resistance, good heat and abrasion resistance, fair resistance to petroleum based fluids.
Natural	<b>NR</b>	Isoprene Natural	Excellent physical properties, very good abrasion resistance, poor resistance to petroleum based fluids.
Neoprene	<b>CR</b>	Chloroprene	Good weathering and flame retardant resistance, good oil resistance, good physical properties.
Nitrile (Buna-N)	<b>NBR</b>	Acrylonitrile-Butadiene	Excellent petroleum products resistance, moderate resistance to aromatics, good physical properties.
Buna-N / Polyvinyl Chloride	<b>PVC / NBR</b>	Acrylonitrile-Butadiene / Polyvinyl-Chloride	Excellent petroleum products and weathering resistance, both for tube and cover.
Polyacrylic	<b>ACM</b>	Acrylic Monomer	Excellent oil and tar resistance at high temperatures.
Sbr	<b>SBR</b>	Styrene Butadiene	Good physical properties, good abrasion resistance, poor resistance to petroleum based fluids.
Viton®	<b>FKM</b>	Fluorocarbon Rubber	Excellent high temperature resistance, particularly in air and oil, very good chemical resistance.

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# TECHNICAL DATA CHEMICAL RESISTANCE TABLE

AGENT	RUBBER				THERMOPLASTIC				
	Class 1	Class 2	Class 3	Class 4	Teflon®	Nylon	Polyester	Polyurethane	PVC
Legend: G = Good C = Conditional U = Unsatisfactory - No Data									
Acetaldehyde	-	-	-	U	G	G	G	G	U
Acetic Acid, Glacial	G	U	-	C	G	C	C	C	G
Acetic Acid, Less Than 10%	G	U	-	C	G	-	-	-	-
Acetic Acid, Over 10%	C	U	-	C	-	-	-	-	-
Acetic Anhydride	C	-	-	-	G	C	C	C	U
Acetone	U	C	-	U	G	G	C	U	U
Acetophenone	-	-	-	U	-	-	-	-	-
Acetyl Acetone	-	-	-	U	-	-	-	-	-
Acetyl Bromide	-	-	-	-	-	U	U	U	U
Acetyl Chloride	-	-	-	U	-	U	U	U	U
Acetylene	U	U	-	U	G	G	G	G	-
Acrylonitrile	-	-	-	-	G	-	-	-	-
Air (Under 20kgf/Cm2)	G	-	-	G	G	G	G	G	G
Alcohols	-	-	-	-	-	G	C	C	G
Aluminium	-	-	-	-	G	-	-	-	-
Aluminium Acetate	-	-	-	-	G	-	-	-	-
Aluminium Bromide	-	-	-	-	G	-	-	-	-
Aluminium Chloride	-	C	-	G	G	U	-	-	G
Aluminium Fluoride 20%	-	C	-	U	G	-	-	-	-
Aluminium Hydroxide	-	-	-	-	G	-	-	-	-
Aluminium Nitrate 10% Aqueous	-	-	-	C	G	-	-	-	-
Aluminium Salts	-	-	-	-	G	-	-	-	-
Aluminium Sulphate	-	C	-	G	G	G	-	-	G
Aluminium Sulphate	-	-	-	-	G	-	-	-	-
Alums	-	C	-	G	G	U	-	-	G
Ammonia Gas, Cold	G	C	-	-	G	U	U	U	U
Ammonia Gas, Hot	C	-	-	-	G	-	-	-	-
Ammonia, Aq	G	G	-	C	G	-	-	-	-
Ammonia, Liquid (Anhydrous)	-	U	-	C	G	-	-	-	-
Ammonium Carbonate	-	-	-	U	-	-	-	-	-
Ammonium Chloride	-	U	-	U	G	G	G	G	G
Ammonium Hydroxide	G	C	-	U	G	U	U	U	U
Ammonium Metaphosphate	-	-	-	-	G	-	-	-	-
Ammonium Nitrate	-	C	-	U	G	G	C	G	G
Ammonium Nitrite	-	-	-	-	C	-	-	-	-
Ammonium Phosphate	-	U	-	U	G	G	C	G	G
Ammonium Sulphate	-	C	-	U	G	G	C	G	G
Ammonium Thiocyanate	-	-	-	-	G	-	-	-	-
Amyl Acetate	U	U	-	U	G	G	C	C	U
Amyl Alcohol	-	U	-	C	G	G	G	G	G
Amyl Chloride	-	-	-	-	G	-	-	-	-
Amyl Chloronaphthalene	-	-	-	-	G	-	-	-	-
Amyl Naphthalene	-	-	-	-	G	-	-	-	-
Anethole	-	-	-	-	-	G	-	-	-
Aniline	U	U	-	U	G	C	U	U	C
Aniline Dyes	-	U	-	-	G	-	-	-	-
Aniline Hydrochloride	-	-	-	-	G	-	-	-	-
Animal Oils	-	-	-	-	-	G	G	G	G
Antimony Salts	-	-	-	-	-	G	G	G	G
Apocor Monsanto (Chlorinated Hydrocarbon)	-	-	-	-	-	G	C	C	C
Aqua Regia	-	-	-	-	-	-	-	-	-
Aromatic Hydrocarbons	-	-	-	-	-	G	C	C	U
Arsenic Acid	-	-	-	-	G	-	-	-	-
Arsenic Salts	-	-	-	-	G	G	G	G	G
Askarel	-	-	-	-	G	-	-	-	-
Asphalt <105 C	C	U	-	G	G	G	G	G	G
Automatic Transmission Fluid (ATF)	G	-	-	-	G	G	G	G	-
Barium Carbonate	-	-	-	-	G	-	-	-	-
Barium Chloride	-	C	-	C	G	G	G	G	G
Barium Hydroxide	-	C	-	C	G	-	-	-	-

AGENT	RUBBER				THERMOPLASTIC				
	Class 1	Class 2	Class 3	Class 4	Teflon®	Nylon	Polyester	Polyurethane	PVC
Legend: G = Good C = Conditional U = Unsatisfactory - No Data									
Barium Salts	-	-	-	-	-	G	G	G	G
Barium Sulphate	-	-	-	-	G	-	-	-	-
Barium Sulphide	-	U	-	C	-	-	-	-	-
Basic Copper Arsenate	-	-	-	-	-	G	G	G	G
Beer	-	-	-	-	G	-	-	-	-
Beet Sugar Liquors	-	-	-	-	-	G	-	-	-
Benzaldehyde	-	-	-	-	G	G	G	G	U
Benzene (Benzol)	U	U	-	U	C	G	C	C	U
Benzenesulphonic Acid	-	-	-	-	C	-	-	-	-
Benzine	G	-	-	-	G	-	-	-	-
Benzine (Petroleum Ether)	-	-	-	-	G	-	-	-	-
Benzine (Petroleum Naphtha)	-	-	-	-	-	-	-	-	-
Benzoic Acid	-	-	-	U	-	G	U	U	G
Benzyl Alcohol	-	-	-	U	G	C	C	C	C
Benzyl Benzoate	-	-	-	-	G	-	-	-	-
Benzyl Chloride	-	-	-	-	G	-	-	-	-
Biodiesel < 92c	-	-	-	C	-	-	-	-	-
Biodiesel > 92c	-	-	-	U	-	-	-	-	-
Bismuth Carbonate	-	-	-	-	G	-	-	-	-
Black Sulphate Liquor	-	-	-	C	G	-	-	-	-
Blast Furnace Gas	-	-	-	G	G	-	-	-	-
Borac Acid	-	-	-	-	G	-	-	-	-
Borax	-	C	-	C	G	G	G	G	C
Bordeaux Mixture	-	-	-	-	G	G	G	G	G
Boric Acid	G	U	-	G	G	G	G	G	G
Boric Copper Sulphate	-	-	-	-	-	G	G	G	G
Brake Oil, Dot 3	C	C	-	U	C	G	-	-	-
Brake Oil, Dot 4	C	C	-	U	C	G	-	-	-
Brake Oil, Dot 5	G	C	-	U	G	-	-	-	-
Brine	G	U	-	C	G	-	-	-	-
Bromine	U	U	-	U	G	U	U	U	C
Bunker Oil	-	-	-	-	G	-	-	-	-
ButAdiene	-	-	-	-	G	-	-	-	-
Butane	G	-	-	U	G	-	-	-	-
Butter Oil	-	-	-	-	G	G	G	G	G
Butyl Acetate	U	U	-	U	G	G	C	C	U
Butyl Alcohol (Butanol)	-	C	-	G	G	G	G	G	G
Butyl Amine	-	-	-	-	-	-	-	-	-
Butyl Carbitol	-	-	-	-	G	-	-	-	-
Butyl Cellosolve	-	-	-	U	-	-	-	-	-
Butyl Mercaptan	-	-	-	-	G	-	-	-	-
Butyl Stearate	-	-	-	U	G	-	-	-	-
Butylene (Butene)	-	-	-	C	-	-	-	-	-
Butyraldehyde	-	-	-	U	G	-	-	-	-
Butyric Acid	-	-	-	-	G	-	-	-	-
Calcium Acetate 10% Aq	-	-	-	C	G	-	-	-	-
Calcium Arsenate	-	-	-	-	G	G	G	G	G
Calcium Bisulphate 10% Aq	-	-	-	G	G	-	-	-	-
Calcium Bisulphide	-	-	-	-	-	-	-	-	-
Calcium Bisulphite	-	U	-	-	G	G	G	G	C
Calcium Carbonate	-	-	-	-	G	-	-	-	-
Calcium Chlorate	-	-	-	-	G	-	-	-	-
Calcium Chloride 10% Aq	-	C	-	C	G	G	G	G	G
Calcium Hydroxide 10% Aq	G	G	-	C	G	G	C	C	G
Calcium Hypochlorite 10% Aq	-	U	-	U	G	G	C	C	G
Calcium Nitrate 10% Aq	-	-	-	G	G	-	-	-	-
Calcium Salts	-	-	-	-	-	G	G	G	G
Calcium Silicate	-	-	-	-	G	-	-	-	-
Calcium Sulphate	-	-	-	-	G	-	-	-	-
Calcium Sulphide	-	-	-	-	G	-	-	-	-



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# TECHNICAL DATA CHEMICAL RESISTANCE TABLE

AGENT	RUBBER				THERMOPLASTIC				
	Class 1	Class 2	Class 3	Class 4	Teflon®	Nylon	Polyester	Polyurethane	PVC
Legend: G = Good C = Conditional U = Unsatisfactory - No Data									
Caliche Liquors (Chile Saltpetre)	-	G	-	-	-	-	-	-	-
Cane Sugar Liquors	-	-	-	-	G	-	-	-	-
Carbitol	-	-	-	C	-	-	-	-	-
Carbolic Acid (Phenol)	-	U	-	U	G	U	U	U	U
Carbon Bisulfide	-	-	-	-	-	G	C	C	U
Carbon Dioxide	G	G	-	G	G	-	-	-	-
Carbon Disulphide	U	U	-	U	-	G	C	C	U
Carbon Monoxide	C	C	-	G	G	G	G	G	G
Carbon Tetrachloride	U	U	-	U	G	G	U	U	C
Carbonates	-	-	-	-	-	-	-	-	-
Carbonic Acid	-	U	-	U	G	G	C	C	G
Castor Oil	-	-	-	C	G	G	C	C	G
Caustic Potash (<20%)	-	-	-	-	-	G	C	C	G
Caustic Potash (>20%)	-	-	-	-	-	C	C	C	C
Caustic Soda (Sodium Hydroxide) <20%	-	-	-	-	G	G	C	C	G
Caustic Soda (Sodium Hydroxide) >20%	-	-	-	-	-	C	C	C	C
Cellosolve Acetate	-	U	-	U	G	-	-	-	-
Cellosolve Butyl	-	-	-	-	-	-	-	-	-
Cellulubes Celanese (Phosphate Ester Base)	-	-	-	-	G	G	U	U	U
Cellusolves Union Carbide	-	-	-	-	-	G	U	U	U
China Wood Oil (Tung)	-	G	-	C	G	-	-	-	-
Chlordane	-	-	-	-	-	G	G	G	C
Chlorinated Solvents	-	U	-	-	-	G	U	U	U
Chlorine Gas, Dry	C	C	-	U	G	U	U	U	C
Chlorine Gas, Wet (<20%)	U	U	-	U	G	C	U	C	G
Chlorine Trifluoride	-	-	-	-	-	-	-	-	-
Chloroacetic Acid	-	U	-	U	G	U	U	U	U
Chloroacetone	-	-	-	U	-	-	-	-	-
Chlorobenzene	-	-	-	U	G	-	-	-	-
Chlorobromomethane	-	-	-	-	G	-	-	-	-
Chloroform	U	U	-	U	G	G	U	U	U
Chloronaphthalene	-	-	-	-	G	-	-	-	-
Chlorosulphonic Acid	U	U	-	U	G	-	-	-	-
Chlorotoluene	-	-	-	-	G	-	-	-	-
Chromic Acid 30%	U	U	-	U	G	U	U	U	C
Chromium Salts	-	-	-	-	-	G	G	G	G
Cider	-	-	-	-	-	G	G	G	G
Citric Acid	G	U	-	G	G	G	C	C	G
Coal Gas	-	-	-	-	G	G	G	G	G
Cod Liver Oil	-	-	-	-	G	-	-	-	-
Coke Oven Gas	-	C	-	U	G	-	-	-	-
Compressed Air (< 290 Psi or 2000 Kpa)	-	-	-	G	G	-	-	-	-
Copper Chloride	-	-	-	-	-	G	C	G	G
Copper Chloride 10% Aq	-	U	-	G	U	-	-	-	-
Copper Cyanide 10% Aq	-	-	-	-	-	-	-	-	-
Copper Sulphate 10% Aq	-	U	-	G	G	G	G	G	G
Corn Oil	-	G	-	-	G	G	G	G	G
Corn Syrup	-	-	-	-	G	-	-	-	-
Cottonseed Oil	G	G	-	C	G	G	G	G	G
Creosote Oil	-	U	-	C	G	U	U	U	C
Cresol	C	-	-	-	G	U	U	U	C
Cresylic Acid	-	-	-	-	-	U	U	U	C
Crude Petroleum Oil	-	U	-	C	G	G	C	G	G
Crude Wax	-	-	-	-	G	-	-	-	-
Cupric Sulphate	-	-	-	-	-	C	C	C	G
Cutting Oil White & Bagley No. 2190	-	-	-	-	G	-	-	-	-
Cyclohexane	C	-	-	-	G	G	G	G	-
Cyclohexanol	-	-	-	G	-	-	-	-	-
Cyclohexanone	-	-	-	-	G	G	G	G	U
Cymene	-	-	-	-	G	-	-	-	-

AGENT	RUBBER				THERMOPLASTIC				
	Class 1	Class 2	Class 3	Class 4	Teflon®	Nylon	Polyester	Polyurethane	PVC
Legend: G = Good C = Conditional U = Unsatisfactory - No Data									
Decalin	-	-	-	-	G	G	-	-	-
Denatured Alcohol	-	-	-	-	G	-	-	-	-
Detergent / Water Solution (Conc.)	C	-	-	G	G	-	-	-	-
Diacetone	-	-	-	-	G	-	-	-	-
Diacetone Alcohol	-	-	-	-	G	G	C	C	U
Diammonium Phosphate	-	-	-	-	G	G	C	U	G
Dibenzyl Ether	-	-	-	-	G	-	-	-	-
Dibutyl Ether	-	-	-	-	G	-	-	-	-
Dibutyl Phthalate	-	-	-	-	G	G	C	C	-
Dibutyl Sebacate	-	-	-	-	G	-	-	-	-
Dichlorobenzene	-	-	-	-	G	-	-	-	-
Diesel Fuel	G	G	C	C	G	G	G	G	C
Diesel Oil Light	G	C	-	C	G	G	-	-	-
Diethanolamine (20% Conc.)	-	-	-	-	G	G	C	C	-
Diethyl Ether	-	-	-	-	G	G	C	C	C
Diethyl Phthalate	-	-	-	-	G	-	-	-	-
Diethyl Sebacate	-	-	-	-	G	-	-	-	-
Diethylamine	-	-	-	C	-	-	-	-	-
Diethylene Glycol	-	-	-	-	G	-	-	-	-
Di-Isobutylene	-	-	-	-	U	-	-	-	-
Di-Isopropyl Ketone	-	-	-	-	G	-	-	-	-
Dimethyl Aniline	-	-	-	-	G	-	-	-	-
Dimethyl Formamide	-	-	-	-	U	-	-	-	-
Dimethyl Phthalate	-	-	-	-	G	-	-	-	-
Diocetyl Phosphate	-	-	-	-	-	G	C	C	U
Diocetyl Phthalate (Dop)	-	-	-	-	C	G	G	C	U
Dioxane	-	-	-	-	G	-	-	-	-
Dipentene	-	-	-	-	G	-	-	-	-
Dowtherm A and E	-	-	-	U	-	-	-	-	-
Enamels	-	-	-	-	-	G	G	G	G
Essential Oils	-	-	-	-	-	G	G	G	G
Ethanol	C	C	-	C	G	G	C	C	C
Ethanolamine	-	-	-	-	-	-	-	-	-
Ether	G	U	-	-	G	G	C	C	C
Ethyl Acetate	U	U	-	U	G	G	C	C	U
Ethyl Acetoacetate	-	-	-	-	G	-	-	-	-
Ethyl Acrylate	-	-	-	-	-	-	-	-	-
Ethyl Alcohol (Ethanol)	C	C	-	C	G	G	C	C	C
Ethyl Benzene	-	-	-	U	G	-	-	-	-
Ethyl Cellulose	-	-	-	-	-	-	-	-	-
Ethyl Chloride	-	C	-	U	G	G	U	U	U
Ethyl Ether	-	-	-	-	G	-	-	-	-
Ethyl Mercaptan	-	-	-	-	G	-	-	-	-
Ethyl Pentochlorobenzene	-	-	-	-	G	-	-	-	-
Ethyl Silicate	-	-	-	-	G	-	-	-	-
Ethylene Cellulose	G	U	-	U	G	-	-	-	-
Ethylene ChlorhydrIn	-	-	-	-	G	U	U	U	U
Ethylene Chloride	-	-	-	-	G	-	-	-	-
Ethylene Diamine	-	-	-	-	G	-	-	-	-
Ethylene Dichloride	-	U	-	U	G	G	U	U	U
Ethylene Glycol	G	G	-	G	G	G	G	C	G
Ethylene Oxide	-	-	-	-	-	G	C	C	-
Fatty Acid	-	-	-	-	G	G	G	G	G
Ferric Chloride	-	U	-	G	-	C	-	-	G
Ferric Chloride	-	-	-	-	G	-	-	-	-
Ferric Nitrate	-	-	-	-	G	-	-	-	-
Ferric Nitrate 10% Aq	-	-	-	G	-	-	-	-	-
Ferric Sulphate 10% Aq	-	U	-	G	G	G	G	G	G
Ferrous Chloride	-	-	-	-	G	-	-	-	-
Ferrous Nitrate	-	-	-	-	G	-	-	-	-

# TECHNICAL DATA CHEMICAL RESISTANCE TABLE

AGENT	RUBBER				THERMOPLASTIC				
	Class 1	Class 2	Class 3	Class 4	Teflon®	Nylon	Polyester	Polyurethane	PVC
Legend:									
G = Good									
C = Conditional									
U = Unsatisfactory									
- No Data									
Ferrous Salt Solutions	-	U	-	-	-	-	-	-	-
Ferrous Sulphate	-	-	-	-	G	-	-	-	-
Fluoboric Acid	-	-	-	-	-	-	U	U	C
Fluoboric Acid	-	-	-	-	G	-	U	-	-
Fluorine	-	-	-	-	-	U	U	U	C
Fluorosilicic	-	-	-	-	-	-	-	U	C
Formaldehyde	C	U	-	U	G	G	C	C	G
Formic Acid	G	U	-	C	G	U	U	U	C
Freon 12 (Refrigerant)	C	C	-	-	G	G	C	C	C
Freon 13 (Refrigerant)	C	-	-	-	-	-	-	-	-
Freon 22 (Refrigerant)	C	-	-	-	-	-	-	-	-
Fruit Juices	-	-	-	-	-	G	G	G	G
Fuel Oil	G	C	-	C	G	G	G	G	C
Fuel Oil (Aromatic Gas) 100 Octane	-	-	-	-	-	G	G	G	C
Fuel Oil (Aromatic Gas) 100 Octane	-	-	-	-	-	-	-	-	-
Fumaric Acid	-	-	-	-	-	-	-	-	-
Furan Furfuran	-	-	-	-	G	-	-	-	-
Furfural	C	C	-	U	G	-	-	-	-
Furfuryl Alcohol	-	-	-	-	-	G	G	G	G
Galic Acid (< 20%)	-	-	-	C	G	G	C	C	G
Gas (Natural)	-	-	-	-	G	G	G	G	G
Gas Oil	-	-	-	-	-	G	C	G	C
Gaseous Hydrogen	-	-	-	-	G	-	-	-	-
Gasohol	-	-	-	C	-	-	-	-	-
Gasoline	G	U	-	C	G	G	G	G	C
Gasoline (Aromatic)	-	-	-	-	-	G	G	G	C
Gasoline (Nor-Aromatic)	-	-	-	-	-	G	G	G	G
Gelatine	-	G	-	-	-	G	G	G	G
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
Glycol To Wc	-	-	-	-	G	G	G	C	G
Grease,Petroleum	G	C	-	-	G	G	G	G	C
Green Sulphate Liquor	-	U	-	U	G	-	-	-	-
Heavy Water (D20)	G	-	-	-	G	G	G	-	-
Helium	-	-	-	G	-	-	-	-	-
Heptane	U	G	-	C	G	G	G	G	C
Hexaldehyde	-	-	-	U	G	-	-	-	-
Hexane	U	G	-	G	G	G	G	G	C
Hexene	-	-	-	-	G	-	-	-	-
Hexyl Alcohol	-	-	-	-	G	-	-	-	-
Hydraulic Oil Phos. Ester Blend (MIL L-7808)	-	U	-	-	G	G	C	C	U
Hydraulic Oil, Auto Transmission Fluid	-	-	-	-	G	G	G	G	U
Hydraulic Oil, Chlorine Base	U	-	-	-	G	-	-	-	-
Hydraulic Oil, Ester Blend	-	-	-	-	G	-	-	-	-
Hydraulic Oil, Ordinary Petro	G	G	-	-	G	-	-	-	-
Hydraulic Oil, Phosphate Ester (FR)	U	U	-	U	G	G	C	C	U
Hydraulic Oil, Silicone Oil	G	G	-	-	G	-	-	-	-
Hydraulic Oil, Sodium Silicate Base	-	-	-	-	G	-	-	-	-
Hydraulic Oil, Water & Petrol Emulsion (FR)	-	C	-	C	G	-	-	-	-
Hydraulic Oil, Water Glycol (85c)	C	G	-	C	G	G	C	G	G
Hydraulic,Oil, Water & Oil Emulsion	C	C	-	C	G	G	G	G	G
Hydrobromic Acid	-	U	-	G	G	-	-	-	-
Hydrochloric Acid V%	-	U	-	U	G	G	U	C	G
Hydrocyanic Acid	G	C	-	U	G	U	-	-	G
Hydrofluoric Acid, Cold	-	-	-	U	G	U	U	U	C
Hydrofluoric Acid, Hot	-	U	-	U	G	-	-	-	-
Hydrofluorsilic Acid	-	-	-	G	G	-	-	-	-
Hydrogen (Gaseous)	G	C	-	G	G	G	G	G	G
Hydrogen Peroxide, Concentrated	-	U	-	C	G	U	U	U	C

AGENT	RUBBER				THERMOPLASTIC				
	Class I	Class II	Class III	Class IV	Teflon®	Nylon	Polyester	Polyurethane	PVC
Legend:									
G = Good									
C = Conditional									
U = Unsatisfactory									
- No Data									
Hydrogen Peroxide, Dilute	-	U	-	C	G	G	G	G	G
Hydrogen Sulphate, Gaseous	-	-	-	-	G	-	-	-	-
Hydrogen Sulphide, Dry	C	U	-	U	G	C	C	-	G
Hydrogen Sulphide, Wet	G	U	-	-	G	-	-	-	-
Hydrogluosilic Acid	-	U	-	-	-	-	-	-	-
Hydrolube Union Carbide - (Hydraulic Fluid Water Glycol Base)	-	-	-	-	-	G	C	G	G
Irus Shell 902 Hydraulic Fluid (Water-Oil Emulsion)	-	-	-	-	G	-	-	-	-
Iso Octane	-	-	-	G	G	-	-	-	-
Isobutyl Alcohol	-	-	-	-	G	-	-	-	-
IsocyanAtes	-	-	-	U	-	G	G	G	-
Isopropyl Acetate	-	-	-	U	G	G	C	C	U
Isopropyl Alcohol	-	-	-	G	G	-	-	-	-
Isopropyl Ether	-	-	-	C	G	-	-	-	-
Jp-4, Jp-5	-	-	-	-	-	-	-	-	-
Kerosene	G	C	-	C	G	G	G	G	C
Ketones	-	-	-	-	-	G	C	C	U
Lacquer	U	U	-	U	G	-	-	-	-
Lacquer Solvents	-	U	-	U	G	G	C	C	U
Lactic Acid	C	U	-	-	G	G	-	-	G
Lard	-	-	-	-	G	G	G	G	G
Lead Acetate	-	-	-	-	G	-	-	-	-
Lead Arsenate	-	-	-	-	-	G	G	G	G
Lead Sulphate	-	-	-	-	-	G	G	G	G
Lead Tetramethyl	-	-	-	-	-	G	G	G	-
Light Oil	G	-	-	-	-	G	G	G	G
Lime	-	-	-	-	-	G	G	G	G
Lime Sulphur	-	-	-	U	-	-	-	-	-
Linoleic Acid	-	-	-	-	G	-	-	-	-
Linseed Cake	-	-	-	-	-	G	G	G	G
Linseed Oil	G	G	-	C	G	G	G	G	G
Liquefied Petroleum Gas (LPG)	U	-	-	U	-	-	-	-	-
Lubricating Oils, Diester Base	-	-	-	-	-	G	C	C	-
Lubricating Oils, Petro Base	G	G	-	C	-	-	-	-	-
Magnesium Chloride 10%Aq	-	U	-	G	G	G	G	G	G
Magnesium Hydroxide 10%Aq	G	C	-	G	G	G	C	C	G
Magnesium Sulphate 10%Aq	-	G	-	G	G	G	G	G	G
Maleic Acid	-	-	-	-	G	G	C	C	G
Mercuric Chloride	G	C	-	G	G	G	G	G	C
Mercury	G	G	-	G	G	G	G	G	G
Mesityl Oxide	-	-	-	-	G	-	-	-	-
Methane	-	-	-	-	-	G	G	G	U
Methy Salicylate	-	-	-	-	G	-	-	-	-
Methyl Acetate	-	-	-	-	G	G	C	C	U
Methyl Alcohol (Methanol)	-	C	-	C	G	G	C	C	U
Methyl Bromide	-	-	-	U	G	C	U	U	U
Methyl Chloride	-	U	-	U	G	G	U	U	U
Methyl Ethyl Ketone (MEK)	-	-	-	U	G	G	C	C	U
Methyl Formate	-	-	-	-	G	-	-	-	-
Methyl Isopropyl Ketone	-	-	-	C	-	-	-	-	-
Methyl Methacrylate	-	-	-	-	G	-	-	-	-
Methyl Sulphate	-	-	-	-	-	G	G	G	-
Methylene Chloride	-	-	-	-	G	-	-	-	-
Methylisobutylketone (MIBK)	-	-	-	-	G	G	C	C	U
MIL-H-46170	-	-	-	C	-	-	-	-	-
MIL-H-5606	-	-	-	C	-	-	-	-	-
MIL-H-6083	-	-	-	C	-	-	-	-	-
MIL-H-83282	-	-	-	C	-	-	-	-	-



# TECHNICAL DATA CHEMICAL RESISTANCE TABLE

AGENT	RUBBER				THERMOPLASTIC				
	Class 1	Class 2	Class 3	Class 4	Teflon®	Nylon	Polyester	Polyurethane	PVC
Milk	-	-	-	-	G	G	G	G	G
Mil-L-2104	-	-	-	G	-	-	-	-	-
Mil-L-23699	-	-	-	G	-	-	-	-	-
Mil-L-7808	-	-	-	G	-	-	-	-	-
Mineral Oils	G	-	-	G	G	G	G	G	G
Molasses	-	-	-	-	G	G	G	G	G
Monochlorobenzene	-	-	-	-	G	-	-	-	-
Mustard	-	-	-	-	G	G	G	G	-
Naphtalene	C	U	-	U	G	G	C	C	U
Naphtha	G	C	-	G	G	C	C	C	U
Naphtenic Acid	-	-	-	-	G	-	-	-	-
Natural Gas	-	G	-	U	G	-	-	-	-
Nickel Acetate 10% Aq	-	-	-	G	G	-	-	-	-
Nickel Chloride	-	U	-	G	G	U	U	-	U
Nickel Sulphate	-	U	-	G	G	-	-	-	-
Nicotine	-	-	-	-	G	G	G	G	G
Nitric Acid (Conc)	U	U	-	U	G	C	U	U	G
Nitric Acid (Dil)	C	U	-	U	G	C	C	C	G
Nitric Acid (Red, Fuming)	-	-	-	-	G	-	-	-	-
Nitrobenzene	-	U	-	U	G	G	U	U	U
Nitrogen / Argon Gaseous	G	-	-	G	G	-	-	-	-
Nitrous Oxide	-	-	-	-	G	G	G	G	G
Octyl Alcohol	-	-	-	U	G	-	-	-	-
Oil	-	-	-	-	G	G	G	G	C
Oil Of Turpentine	-	-	-	-	G	G	G	G	G
Oleic Acid	G	U	-	U	G	-	-	-	-
Oleum Spirits	-	U	-	C	-	G	G	G	C
Olive Oil	-	-	-	-	G	-	-	-	-
Ortho-Dichlorobenzene	-	-	-	U	-	-	-	-	-
OS 45 Monsanto Hyd. Fluid (Silicate Ester Base)	-	-	-	-	G	C	C	-	-
Oxalic Acid	-	C	-	C	G	C	C	G	G
Oxygen (Liquid)	-	U	-	U	-	-	-	-	-
Oxygen Gaseous	-	-	-	-	G	-	-	-	-
Ozone	-	-	-	-	G	G	G	G	G
Paint (Oil Based)	-	-	-	-	G	G	G	G	C
Paint Solvents (Oil Base)	-	-	-	-	G	G	C	C	C
Palmitic Acid	-	U	-	G	G	G	G	G	G
Peanut Oil	-	-	-	-	G	-	-	-	-
Pentane	-	-	-	-	G	G	G	C	C
Perchloric Acid	-	-	-	U	G	U	U	U	C
Perchloroethylene	-	U	-	U	G	G	U	U	C
Petroleum Oils (Refined)	-	-	-	-	G	G	G	G	G
Petroleum Oils (Sour)	-	-	-	-	G	G	C	C	G
Phenol (Carbolic Acid)	-	U	-	U	-	U	U	U	C
Phenolates	-	-	-	-	-	C	C	G	C
Phenols (Carbolic Acid)	-	-	-	-	G	-	-	-	-
Phosphate Ester Base Oil	-	U	-	U	-	-	-	-	-
Phosphoric Acid (70%)	-	-	-	U	-	-	-	-	-
Phosphoric Acid 10%	G	U	-	U	-	G	U	U	G
Picric Acid (Molten)	-	U	-	-	G	C	U	U	G
Picric Acid (Solution)	-	C	-	-	G	-	-	-	-
Pine Oil	-	-	-	-	G	-	-	-	-
Pinene	-	-	-	-	G	-	-	-	-
Plating Solution, Chrome	-	-	-	-	G	-	-	-	-
Potassium Acetate 10% Aq	-	-	-	G	G	-	-	-	-
Potassium Chloride	-	U	-	G	G	G	G	G	G
Potassium Cyanide	-	G	-	G	G	-	-	-	-
Potassium Dichromate	-	-	-	G	G	-	-	-	-
Potassium Hydroxide (Potash)	G	U	-	G	G	C	U	U	C
Potassium Nitrate	-	-	-	-	G	G	G	G	G

AGENT	RUBBER				THERMOPLASTIC				
	Class 1	Class 2	Class 3	Class 4	Teflon®	Nylon	Polyester	Polyurethane	PVC
Potassium Permanganate (5% Conc.)	-	-	-	-	-	U	U	U	G
Potassium Sulphate	-	G	-	G	G	G	G	G	G
Propane	-	-	-	-	G	G	G	G	G
Propyl Acetate	-	-	-	-	U	-	-	-	-
Propyl Alcohol	-	-	-	-	G	-	-	-	-
Pydraul (Stauffer) F-9,150, 600, 625	-	-	-	-	-	G	C	C	U
Pyrethrum	-	-	-	-	-	G	G	G	G
Pyridine	-	-	-	-	G	C	C	G	U
Red Oil	-	-	-	-	G	-	-	-	-
Salt Water (Sea Water)	G	U	-	C	G	G	G	G	G
Saturated Steam	U	-	-	U	-	-	-	-	-
Sewage	-	-	-	G	G	-	-	-	-
Silicone Oils	-	G	-	G	-	-	-	-	-
Silver Nitrate	-	-	-	-	G	-	-	-	-
Skydrol Monsanto 500, 7000	-	-	-	-	G	G	U	U	U
Soap Solutions	C	-	G	G	G	G	G	G	G
Soda (Sodium Carbonate)	G	-	-	G	-	G	G	G	G
Soda Water	-	-	-	-	-	G	G	G	C
Sodium Acetate 10% Aq	-	-	-	G	G	-	-	-	-
Sodium Bicarbonate 10% Aq	-	-	-	G	G	-	-	-	-
Sodium Bisulfite	-	-	-	-	-	G	G	G	G
Sodium Bisulphate	-	U	-	-	G	-	-	-	-
Sodium Borate	-	-	-	-	G	G	G	G	G
Sodium Carbonate	-	-	-	-	-	G	G	G	G
Sodium Chloride Solutions	G	U	-	-	G	G	G	G	G
Sodium Cyanide	-	-	-	-	-	G	G	G	G
Sodium Hydroxide <10%	-	U	-	C	G	G	C	C	G
Sodium Hydroxide 40%	-	U	-	-	G	-	-	-	-
Sodium Hypochloride 10%	-	-	-	-	-	-	-	-	-
Sodium Hypochlorite	-	U	-	G	G	C	C	C	G
Sodium Metaphosphate 10% Aq	-	-	-	-	-	-	-	-	-
Sodium Nitrate 10% Aq	-	-	-	G	G	G	G	G	G
Sodium Perborate 10% Aq	-	U	-	G	G	-	-	-	-
Sodium Peroxide 10% Aq	C	U	-	G	G	-	-	-	-
Sodium Phosphates 10% Aq	-	U	-	C	G	G	G	G	G
Sodium Silicate 10% Aq	G	-	-	G	-	G	G	G	G
Sodium Sulphate 10% Aq	-	-	-	G	-	G	G	G	G
Sodium Sulphide	-	-	-	-	-	G	G	G	G
Sodium Sulphite 10% Aq	G	-	-	G	G	-	-	-	-
Sodium Thiosulphate (Hypo) 10% Aq	-	U	-	G	G	G	G	G	G
Solution 2-4D DDT Preparation Hydroxy Quinoline	-	-	-	-	-	G	-	-	G
Soybean Oil	-	G	-	C	G	-	-	-	-
Stannic Chloride	-	U	-	G	G	-	-	-	-
Stannous Chloride	-	-	-	-	-	C	G	G	G
Steam	-	-	-	-	G	U	U	U	U
Steam	-	U	-	U	G	-	-	-	-
Stearic Acid	-	-	-	-	-	G	G	C	G
Stearic Acid, Botanical	-	C	-	G	G	-	-	-	-
Stearin	-	-	-	-	-	G	G	G	-
Stoddard Solvent	-	-	-	-	G	G	U	U	C
Styrene	-	-	-	-	G	G	C	C	-
Sucrose Solution	-	-	-	-	G	-	-	-	-
Sulphur	C	G	-	G	G	G	G	G	G
Sulphur Chloride	-	C	-	U	G	-	-	-	-
Sulphur Dioxide	G	U	-	U	G	U	U	U	C
Sulphur Trioxide	-	U	-	-	-	C	U	U	G
Sulphuric Acid, 10%, Hot	G	U	-	U	G	-	-	-	-
Sulphuric Acid, 10%, Cold	G	U	-	U	G	C	U	U	G
Sulphuric Acid, 75%, Cold	U	U	-	U	G	-	-	-	-

# TECHNICAL DATA CHEMICAL RESISTANCE TABLE

AGENT	RUBBER				THERMOPLASTIC				
	Class 1	Class 2	Class 3	Class 4	Teflon®	Nylon	Polyester	Polyurethane	PVC
Legend: G = Good C = Conditional U = Unsatisfactory - No Data									
Sulphuric Acid, 75%, Hot	U	U	-	U	G	-	-	-	-
Sulphuric Acid, 95%, Cold	U	U	-	U	G	U	U	U	U
Sulphuric Acid, 95%, Hot	U	U	-	U	G	-	-	-	-
Sulphurous Acid	G	-	-	G	U	U	U	U	C
Tannic Acid	G	U	-	G	G	G	C	C	G
Tar	-	U	-	G	G	G	G	G	G
Tartaric Acid	-	U	-	G	G	G	G	G	G
Terpineol	-	-	-	-	G	-	-	-	-
Toluene	U	U	-	U	G	G	C	C	U
Toluol	-	-	-	-	-	G	C	C	U
Transformer Oil	-	-	-	-	G	-	-	-	-
Transmission Fluid Type A	G	-	-	-	G	-	-	-	-
Tributoxyethyl Phosphate	-	-	-	-	G	-	-	-	-
Tributyl Phosphate	-	-	-	-	G	G	C	C	U
Trichloroacetic Acid	-	-	-	-	-	U	U	U	C
Trichlorethylene	U	U	-	U	G	G	U	U	C
Tricresyl Phosphate	-	-	-	U	-	G	C	C	U
Trisodium Phosphate Solution	-	-	-	-	-	G	C	C	G
Tung Oil (China Wood Oil)	-	G	-	-	G	-	-	-	-
Turpentine Oil	-	U	-	G	G	G	G	G	G
Ucon Union Carbide									
(Hydraulic Fluid Water Glycol Base)	-	-	-	-	-	G	C	G	G
Urea	-	-	-	-	G	G	C	C	G
Uric Acid	-	-	-	-	-	G	U	U	G
Varnish	U	-	-	G	-	G	G	G	U
Vegetable Greases	-	-	-	-	G	-	-	-	-
Versilube	-	-	-	-	G	-	-	-	-
Vinegar	-	-	-	-	G	G	C	C	G
Vinyl Chloride	-	-	-	-	G	-	-	-	-
Water @ 65°C	-	G	G	C	G	G	G	G	G
Water Glycol	-	-	-	G	-	-	-	-	-
Water, Normal Temp	G	C	G	G	G	-	-	-	-
Whiskey	-	-	-	-	G	-	-	-	-
White and Bagley No. 2190 Cutting Oil	-	-	-	-	G	G	-	-	-
Wine	-	-	-	-	G	G	G	G	G
Wool Oil	-	-	-	-	-	G	G	G	G
Xylene	-	-	-	U	G	G	C	C	U
Xylol	-	-	-	-	-	G	C	C	U
Zinc Acetate	-	-	-	-	G	-	-	-	-
Zinc Chloride 10% Aq	-	C	-	G	G	G	G	G	G
Zinc Hydrate	-	-	-	-	-	U	C	C	G
Zinc Sulphate 10% Aq	-	C	-	G	G	U	C	C	G