The conveyance of fluids in each field of industry is an important latent point. In order to enable rapid and sure conveyance, selection should be made from the TOYOX hose series according to the particular branch of industry, the type of fluid, and the purpose of use.

S		Multi-I	Purpose		Compre	Solvent	Fertilizer		
Fluids	Hose Type	TOYORON	SPRING	SUPERHIT	HIT	ARROW	ROCK	PAINT	SPRAY
	Water	m	m	X	Х	m	m	S	m
Jene	Compressed Air	m	m	u	u	u	u	S	m
nm	Oil	m	m	m	m	m	m	S	S
Recommend	Solvent	Х	Х	X	Х	Х	Х	u	Х
R	Chemical	m	m	S	S	m	m	S	u

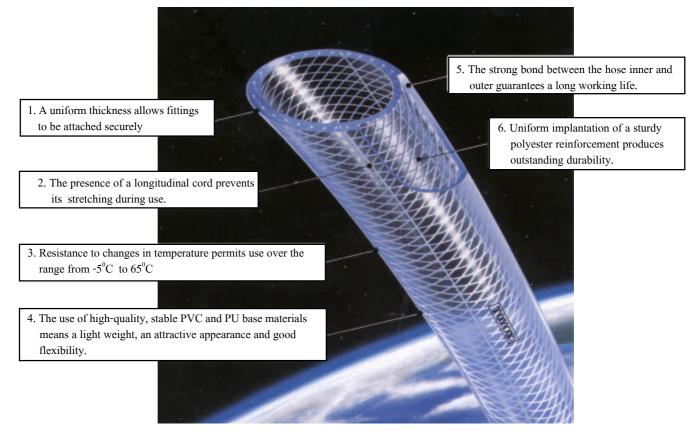
TOYOX HOSES SELECTION TABLE

u Most Suitable m Suitable SPassable X Unsuitable

	Light Weight	Н Н	Н	Н Н	ННН	Н	Н Н	ННН	НН
es	Flexibility	НН	Н	НННН	НН	ННН	НН	Н	ННН
Properties	Pressure Resistance	НН	Н	ННН	ННН	ННН	ННН	ННН	НННН
Proj	Heat Resistance	Н	НН	НН	ННН	ΗН	ΗΗ	ННН	НН
Hose I	Abrasion Resistance	НН	НН	ННН	НННН	ННН	НН	Н	НН
Η	Transparent	НН	Н Н	-	-	-	-	Н	-
	Vacuum Resistance	-	ННН	-	-	-	-	-	-

Excellent HHHH > HHH > HH > HPoor

EVEN THOUGH BOTH ARE PLASTIC HOSES, THE TOYOX HOSES DIFFER HERE !



m m	Calcium Acetate Calcium Hypochlorite	1	Hydrocarbon XAliphatic Series				
			XALIDINATIC Series		XKetone 5		
111	Calcium Nitrate				Chloroacetone	5	
s	Calcium Hydroxide	1	Acetylene	1	Dichlohexane	5	
5	Calcium Sulfide	1	Liquefied Petroleum Gas	s	Methylisobuthylketone	5	
	xPotassium Compound		Propane	1	Methylethylketone	5	
-	Potassium Chloride	1	Propylens	s	XAmine/Nitrogen Compound		
5	Potassium Permanganate 5%RT	m	Butane	m	Acetamide	s	
_						5	
-	-				-	1	
						s	
-			-			m	
		1	-			m 5	
-					-	1	
-				m		m	
_				-		m	
			-	-		m	
m		1		S		5	
_		m		-		m	
s 5		m			÷ .		
m		1		5		S	
1		m		5	-	5	
-			-	m	Creosote Oil	5	
	-		Hydroguinone	m	Grease	5	
1		1	Phenol	5	Mineral Oil	s	
		1	Benzene	5		s	
m		m	Monochlorobenzene	5		s	
m		1	xHalogenide Derivative		Silicone Oil	s	
	0						
s	Magnesium Chloride	1	Titanium Carbon	5	Linseed Oil	s	
1	Magnesium Hydroxide	1	Trichloroethylene	5	Olive Oil	s	
1	Magnesium Sulfide	1	Ethylene Dichloride	5	Tung Oil	m	
1	xOther Compound		Methylene Dichloride	5	Bean Oil	s	
1	Mercuric Chloride	m	Perchloroethylene	5	Turpentine Oil	m	
1	Mercuy	1	Chlorine Compound	5	Corn Oil	s	
1	Carbonic Acid m		Alcohol/Ether/AldehydeKetone		Pineapple Oil	5	
	Arsenic Acid m		XAlcohol		Castor Oil	s	
1	Boric Acid	m	Amyl Alcohol	s	Cottonseed Oil	s	
1	Alum	1	Isoprophy Alcohol	5	Palm Oil	s	
1	Hydrogen Peroxide 30%RT	m	Ethyl Alcohol	5	Salt Water	1	
	Hydrogen Peroxide 5%50 ^o C	m	Ethylene Glycol	5	Vinegar	m	
m	xGaseous Bodies		Glycerine	s	Vapor/Steam	5	
1	Sulfuruos Acid Gas	1	Thio Alcohol	5	Soapy Water	1	
m	Liquid Chlorine	5	Buthl Alcohol	5	Natural Gas	1	
1	Chlorine Gas s		Methyl Alcohol 5		Water		
	Ozone m		XEther		Lard(Animal Oil)	s	
m	Oxygen	1	Diethy Ether	5	Lard	s	
5	Hydrogen	1			1 Excellent : has almost no influ	uence	
	Nitrogen	1	XAldehyde	1	m Good : has a little influence		
	Carbonic Acid Gas	1	Asetaldehyde	s	s Possible : preferably not to be	e used	
	-	I	Asetaldehyde Formalddehyde 40%RT		I	+	
	m s 5 m 5 m 5 m s 5 m 1 m 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	mPotassium Bichromate 10%RTsPotassium HydroxidesPotassium Cyanide5Potassium Sulfatem XSilver /Iron / Copper / NickelCompound 5Silver NitratemFerric ChloridesFerric Nitrateferric SulfateCupric ChloridemCopper SulfatemLead Acetates5Lead Acetates5Lead AcetatemNickel Chloride1Nickel Sulfate1Nickel Sulfate1Barium Compound1Barium SulfidemBarium SulfidemMagnesium Chloride1Magnesium Sulfide1Magnesium Sulfide1Magnesium Sulfide1Arsenic Acid1Boric Acid1Arsenic Acid1Sulfuruos Acid Gas1Sulfuruos Acid Gas1Chlorine Gas1OzonemOxygen5Hydrogen	mPotassium Bichromate 10%RT1sPotassium Hydroxide1sPotassium Cyanide1fPotassium Sulfate1m XSilver/Iron/Copper/NickelCompound 1sSilver NitratemmFerric Chloride1sFerric Nitrate1mCupric ChloridemmCopper Sulfate1mCopper Sulfate1mLead AcetatemsLead NitratemmNickel Chloride11Nickel Sulfate11Rarium Compound11Barium Sulfate1mBarium Sulfate1mBarium Sulfate11Magnesium Chloride11Magnesium Chloride11Magnesium Sulfide11Magnesium Sulfide11Magnesium Sulfide11Magnesium Sulfide11Magnesium Sulfide11Mercuric Chloridem1Mercuric Chloridem1Mercuric Chloridem1Sotther Compoundm1Sulfuruos Acid Gas11Sulfuruos Acid Gas11Sulfuruos Acid Gas11Sulfuruos Acid Gas11Caboonic Acidm1Sulfuruos Acid Gas11Sulfuruos Acid Gas11 <td>m Potassium Bichromate 10%RT 1 Gasoline s Potassium Hydroxide 1 Kerosene s Potassium Cyanide 1 Naphtha s Potassium Sulfate 1 Naphtha m Xsiiver/Iron/Copper/NickelCompound Naphthenic Acid 5 Silver Nitrate m Fuel Oil m Ferric Chloride m Karomotic c Ferric Sulfate m Xaromotic c Cupric Chloride m Xylene m Copper Sulfate 1 Cresol m Lead Acetate m Chloro Toluene s Lead Acetate m Toluene m Nickel Chloride 1 Tar 1 Nickel Sulfate 1 Naphthalene 1 Starium Compound 1 Benzene m Barium Chloride 1 Hydroguinone 1 Barium Sulfate 1 Stalogenide Derivative m <td< td=""><td>m Potassium Bichromate 10%RT 1 Gasoline 5 s Potassium Cyanide 1 Kerosene m s s Potassium Sulfate 1 Naphtha s m Xsilver/Iron/Copper/NickelCompound Maphthenic Acid m 5 Silver Nitrate m Fuel Oil s m Ferric Chloride 1 Hexane s s Ferric Nitrate m KAromotic s Cupric Chloride m Xylene 5 m Copper Sulfate 1 Cresol s m Lead Acetate m Chloro Toluene 5 m Nickel Acetate m Toluene 5 m Nickel Sulfate 1 Maphthalene 1 n Nickel Sulfate 1 Mapnesium Chloride 1 m Nickel Sulfate 1 Maphthalene 5 m Nickel Sulfate 1 Maphthalene 5</td><td>mPotassium Bichromat 10%RT1Gasoline5AnilinesPotassium Cyanide1OilsFomic Acid 25%RT5Potassium Cyanide1OilsFomic Acid 25%RT5Potassium Sulfate1NaphthacCitric Acid5Silver NitratemFuel Oil5Acetric Acid 10%RT5Silver NitratemFuel Oil5Acetric Acid 10%RT6Ferric Chloride1Hexane5Salicylic Acid6Ferric Nitrate1BenzinemHydrogen Cyanic Acid7Cupric Chloride1RarnoticOxalic Acid6Cupric Chloride1CresolaLine AcidmCoper Sulfate1CresolaLine AcidmKel Chloride2Tar5Monochloroacetic AcidmNickel Chloride1NaphthalenemCresoste Oil1Nickel AcetatemToluene5LacquermNickel Sulfate1Phenol5Mineral Oil1Barium Choride1Phenol5Silcon GreasemBarium Sulfate1XHalogenide DerivativeSilcon GreasemBarium Sulfate1XHalogenide DerivativeSilcon GreasemBarium Sulfate1Trichorechylene5Silcon GreasemMagnesium Sulfate1KHoolhorechylene5Turg Oil<</td></td<></td>	m Potassium Bichromate 10%RT 1 Gasoline s Potassium Hydroxide 1 Kerosene s Potassium Cyanide 1 Naphtha s Potassium Sulfate 1 Naphtha m Xsiiver/Iron/Copper/NickelCompound Naphthenic Acid 5 Silver Nitrate m Fuel Oil m Ferric Chloride m Karomotic c Ferric Sulfate m Xaromotic c Cupric Chloride m Xylene m Copper Sulfate 1 Cresol m Lead Acetate m Chloro Toluene s Lead Acetate m Toluene m Nickel Chloride 1 Tar 1 Nickel Sulfate 1 Naphthalene 1 Starium Compound 1 Benzene m Barium Chloride 1 Hydroguinone 1 Barium Sulfate 1 Stalogenide Derivative m <td< td=""><td>m Potassium Bichromate 10%RT 1 Gasoline 5 s Potassium Cyanide 1 Kerosene m s s Potassium Sulfate 1 Naphtha s m Xsilver/Iron/Copper/NickelCompound Maphthenic Acid m 5 Silver Nitrate m Fuel Oil s m Ferric Chloride 1 Hexane s s Ferric Nitrate m KAromotic s Cupric Chloride m Xylene 5 m Copper Sulfate 1 Cresol s m Lead Acetate m Chloro Toluene 5 m Nickel Acetate m Toluene 5 m Nickel Sulfate 1 Maphthalene 1 n Nickel Sulfate 1 Mapnesium Chloride 1 m Nickel Sulfate 1 Maphthalene 5 m Nickel Sulfate 1 Maphthalene 5</td><td>mPotassium Bichromat 10%RT1Gasoline5AnilinesPotassium Cyanide1OilsFomic Acid 25%RT5Potassium Cyanide1OilsFomic Acid 25%RT5Potassium Sulfate1NaphthacCitric Acid5Silver NitratemFuel Oil5Acetric Acid 10%RT5Silver NitratemFuel Oil5Acetric Acid 10%RT6Ferric Chloride1Hexane5Salicylic Acid6Ferric Nitrate1BenzinemHydrogen Cyanic Acid7Cupric Chloride1RarnoticOxalic Acid6Cupric Chloride1CresolaLine AcidmCoper Sulfate1CresolaLine AcidmKel Chloride2Tar5Monochloroacetic AcidmNickel Chloride1NaphthalenemCresoste Oil1Nickel AcetatemToluene5LacquermNickel Sulfate1Phenol5Mineral Oil1Barium Choride1Phenol5Silcon GreasemBarium Sulfate1XHalogenide DerivativeSilcon GreasemBarium Sulfate1XHalogenide DerivativeSilcon GreasemBarium Sulfate1Trichorechylene5Silcon GreasemMagnesium Sulfate1KHoolhorechylene5Turg Oil<</td></td<>	m Potassium Bichromate 10%RT 1 Gasoline 5 s Potassium Cyanide 1 Kerosene m s s Potassium Sulfate 1 Naphtha s m Xsilver/Iron/Copper/NickelCompound Maphthenic Acid m 5 Silver Nitrate m Fuel Oil s m Ferric Chloride 1 Hexane s s Ferric Nitrate m KAromotic s Cupric Chloride m Xylene 5 m Copper Sulfate 1 Cresol s m Lead Acetate m Chloro Toluene 5 m Nickel Acetate m Toluene 5 m Nickel Sulfate 1 Maphthalene 1 n Nickel Sulfate 1 Mapnesium Chloride 1 m Nickel Sulfate 1 Maphthalene 5 m Nickel Sulfate 1 Maphthalene 5	mPotassium Bichromat 10%RT1Gasoline5AnilinesPotassium Cyanide1OilsFomic Acid 25%RT5Potassium Cyanide1OilsFomic Acid 25%RT5Potassium Sulfate1NaphthacCitric Acid5Silver NitratemFuel Oil5Acetric Acid 10%RT5Silver NitratemFuel Oil5Acetric Acid 10%RT6Ferric Chloride1Hexane5Salicylic Acid6Ferric Nitrate1BenzinemHydrogen Cyanic Acid7Cupric Chloride1RarnoticOxalic Acid6Cupric Chloride1CresolaLine AcidmCoper Sulfate1CresolaLine AcidmKel Chloride2Tar5Monochloroacetic AcidmNickel Chloride1NaphthalenemCresoste Oil1Nickel AcetatemToluene5LacquermNickel Sulfate1Phenol5Mineral Oil1Barium Choride1Phenol5Silcon GreasemBarium Sulfate1XHalogenide DerivativeSilcon GreasemBarium Sulfate1XHalogenide DerivativeSilcon GreasemBarium Sulfate1Trichorechylene5Silcon GreasemMagnesium Sulfate1KHoolhorechylene5Turg Oil<	

TOYORON HOSE MULTI-PURPOSE GRADE



PVC POLYESTER CORD REINFORCED HOSE

WATER :

OIL :

Factory Water Supply And Drainage Line

COMPRESSED AIR :

Piping For Pneumatic Equipment

CHEMICAL : Piping For Factory Chemicals

Supply Line For Lubricating Oil

Features

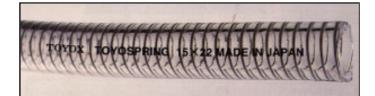
- Light weight (40% righter than Rubber Hose)
 - Clean and transport
 - High flexibility and easy to handle
 - Workinttre can range from 3 to 10 kgf/cm² depending on size
 - Burst pressure is 4 times of working pressure at temp. 20°C
- Bending radius is 5 times of ID.
- Working temp, is from 0° C to 65° C
- If chemicals is used, please refer to Chemical Resistance Chart in the appendix.

Precautions for use :

- Do not use for Oxygen and Acetylene in welding site.
- The sharp top of the serrated nipples should be rounded off.
- The steel wire should not be tightened as hose band.

Series No.	Size	Hose	e Size	Lengh	Working	Burst Pressure		
	(inch)	I.D. X O.D.		M/Roll	Pressure	at 20°C	at 60°C	Note
		Μ	М.		kgf/cm ²	kgf/cm ²		
T004	5/32	4	9	100	10	77	30	
T006	1/4	6	11	100	10	73	30	
T008	5/16	8	13.5	100	10	65	28	
T009	3/8	9	15	100	10	56	25	
T010	13/32	10	16	100	10	56	25	
T012	1/2	12	18	100	8	52	23	
T015	5/8	15	22	100	8	46	21	
T019	3/4	19	26	100	6	38	20	
T022	27/32	21.5	29	100	6	35	18	
T025	1	25	33	50	6	30	18	
T032	1-1/4	32	41	50	4	23	15	
T038	1-1/2	38	48	50	4	19	13	
T045	1-3/4	45	56	40	4	17	10	
T050	2	50	62	40	3	15	13	
T063	2-1/2	63	80	20	3	13	11	
T075	3	75	92	20	3	12	10	

TOYOSPRING HOSE MULTI-PURPOSE GRADE



PVC SPRING WIRE REINFORCED HOSE

OIL:

WATER:

Supply Line For Lubricating Oil **POWDER:**

Piping For Factory Chemicals

Factory Water Supply And Drainage Line **CHEMICAL :**

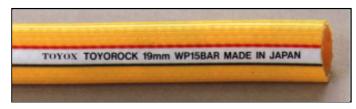
Factory Suction line For Powder & Granul

- Can be used as vacuum hose Features

- Superior to abrasion resistance
- Good resistance to outside squash.
- Even if squashed, can be restored to original to shape with a hammer.
- Superior to heat resistance.
- Burst pressure is 4 times of working pressure.
- Longer life time compared with SPRING HOSE
- Natural transparent make easier to see inside fluid
- Measuring number indicate system make easier to control the stock.
- Please refrain using from Kerocine and Gasoline.
- If chemicals is used, please refer to Chemical Resistance Chart in the appendix.

Series No.	Size	Hose	Size	Lengh	Working	Burst Pressure				
	(inch)		(inch) I.I		I.D. X O.D.		Pressure	at 20°C	at 60°C	Note
		M	M.		kgf/cm ²	kgf/	cm ²			
S006	1/4	6	11	100	8	70	16			
S008	5/16	8	13.5	100	8	60	16			
S009	3/8	9	15	100	8	55	15			
S012	1/2	12	18	100	5	40	15			
S015	5/8	15	22	100	5	35	13			
S019	3/4	19	26	50	4	30	12			
S025	1	25	33	50	4	25	10			
S032	1-1/4	32	41	40	3	20	9			
S038	1-1/2	38	48	40	3	18	8			
S050	2	50	62	40	3	14	8			
S063	2-1/2	63	80	20	2	12	7			
S075	3	75	92	20	2	11	7			
S090	3-1/2	90	108	10	2	9	5			
S100	4	100	118	10	2	7	5			

ROCK HOSE COMPRESSOR AIR SPECIALIZED HOSE



PVC POLYESTER CORD REINFORCED HOSE

PNEUMATIC LINE

- Civil Engineering
- Quarry

Application

- Civil Engineering.
- Tunnel and dam construction
- Quarry
- Sewage piping works.
- Shipbuilding yard

- Building Construction
- Factory line
- Road and bridge construction
- Subway construction
- Building construction
- Seabed drilling
- Construction equipment

Features - Light weight (40% righter than Rubber Hose)

- Superior to abration resistance (10 times stronger than Rubber Hose)
- Good resistance to effects of oil

(No stichness or maceration of the hose due to oil, thus ensuring a long usable life)

Precautions for use

- Do not allow to make direct contact with heted objects such as weklding sparks.
- The steel wire should not be tightened as hose band.

Series No.	Size	Hose	Size	Lengh	Working	Burst Pressure		
	(inch)	I.D. X	I.D. X O.D.		Pressure	at 20°C at 60°C		Note
		M	M.		kgf/cm ²	kgf/cm ²		
R009	3/8	9.5	16	100	17	100	75	
R012	1/2	12.5	20	100	17	100	70	
R019	3/4*	19	27	100	15	90	60	
R025	1	25	33	100	12	60	40	
R032	1-1/4	32	43	50	10	50	35	

ARROW HOSE PNEUMAtIC SPECIALIZED HOSE



HIGH GRADE PVC POLYESTER CORD REINFORCED HOSE

PNEUMATIC LINE

- Assembly Factory Air Tool
- wood Works-Metal Works
- House Spray Painting

Features

- Light weight (40% righter than Rubber Hose)
- Flexible and easy to handle.
- Superior to abration resistance (10 times stronger than Rubber Hose)
- Bending radius is 5 times of ID.
- No stickness or maceration of the hose due to oil
- Airtight with the fitting is very good, thus there is no air leakage.

Precautions for use:

- Working Temperature is from -10° C 65° C
- Do not use for Oxygen and Acetylene in welding site.

Series No.	Size	Hose	Size	Lengh	Working	Burst Pressure		
	(inch)	I.D. X	I.D. X O.D.		Pressure	at 20°C at 60°C		Note
		Μ	M.		kgf/cm ²	kgf/cm ²		
A006	1/4	6.5	13	100	10	90	54	
A007	9/32	7	13.5	100	10	85	50	
A008	5/16	8	15	100	10	80	50	
A009	3/8	9.5	16.5	100	10	75	45	
A012	1/2*	13	21.5	100	10	70	43	