



# **ARK**

# **Industrial Hoses**

**CATALOGUE**

**Thermoplastic  
Hoses**

**PVC Braided  
Hoses**

**Polyurethane Tubing  
and Recoil Hoses**

**Thermoplastic  
Welding Hoses**



## About us

ARK Polychem Private Limited is one of the prominent and distinguished manufacturers of Industrial Hoses which include Thermoplastic Hoses, Polyurethane Tubes & Recoil Hoses, PVC Braided Hoses & Welding Hoses. We design, develop and manufacture wide variety of hoses to cater to Automobile, Printing & Packaging, and Plastic Industries to name a few.

Strength, Durability and Innovation are the hallmarks of every product manufactured at ARK Polychem Private Limited. Our all innovations are based on PQR theory, which is primarily known as Performance, Quality and Reliability. It is our belief that all products we manufacture should pass the Performance tests and be at par in **Quality with global standards** and achieve highest benchmark in Reliability. We are India's fastest growing Industrial hose company and looking to grow and achieve International recognition for the quality of our hoses and tubes.

Our infrastructure capabilities are at par with International standards and we strive to follow strict and best in house test procedures in our in house established testing laboratory.

We are committed and are always looking forward to associate with organizations that are looking to develop fluid conveyance solutions in the field of Automobile, Industrial and Pneumatic applications.



## Quality Management

It is ARK's vision to become an Indian multinational company in the field of Industrial hoses and keeping that goal in mind we always stress on Total quality management principles and strive to achieve zero defect products in line with our manufacturing capabilities.



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# ARK

## Thermoplastic Hoses

Thermoplastic Multipurpose Hoses are manufactured using thermoplastic PVC compound, which have properties similar to rubber compound to withstand high pressure and temperature conditions. It is constructed with full weaving of synthetic yarn and with normal reinforcement as well in between two thermoplastic layers. It is very light weight and economical.

**Operating Fluid** : Air/Water/Liquid,  
**Material** : Thermoplastic PVC compound  
**Reinforcement** : High Quality Synthetic Braided yarn

CORE	PLASTICIZED PVC, BLACK
REINFORCEMENT	SINGLE BRAID OF SYNTHETIC FIBER
COVER	BLACK COLOR THERMO COMPOUND
APPLICATION	DESIGNED FOR INDUSTRIAL MACHINERY, UNDERGROUND APPLICATION, CIVIL CONSTRUCTION AND OTHERS
TEMPERATURE	CONTINUOUS : -10°C TO 60°C

CORE										
	OD		ID		WP		BP		MIN. BR	
	Inch	Mm	Inch	Mm	Psi	Bar	Psi	Bar	Mm	Mm
<b>MP1</b>	0.492	12.5	1/4	6.5	284	20	853	60	1.181	30
<b>MP2</b>	0.571	14.5	0.315	8	284	20	853	60	1.378	35
<b>MP3</b>	0.630	16	3/8	9.5	284	20	853	60	1.969	50
<b>MP4</b>	0.787	20	1/2	12.5	284	20	853	60	2.362	60
<b>MP5</b>	0.886	22.5	0.630	16	284	20	853	60	2.559	65
<b>MP6</b>	1.063	27	0.787	20	284	20	853	60	2.953	75
<b>MP7</b>	1.299	33	0.984	25	284	20	853	50	4.921	125



## Multipurpose Hose Advantages

EXCEPTIONAL ENDURANCE	RESISTANCE TO REPETITIVE FLEXING
	PROTECTION AGAINST SPARK AND FLAME
	ABRASION AND CRUSH-RESISTANT
	UV-RESISTANT
IDEAL FOR IN-PLANT AUTOMOTIVE	EXCELLENT OZONE RESISTANCE
	PERFECT FOR COOLING SYSTEMS
	MAXIMUM FLOW WITH NO PRESSURE DROP
	SILICON-FREE
READY-TO-USE	NO LUBRICATION OR PREPARATION TIME REQUIRED
	TO CONNECT : PUSH THE HOSE FULLY HOME AGAINST THE FITTING SHOULDER
	TO DISASSEMBLE : CUT THE HOSE ON THE BARBED SIDE OF THE FITTING

## APPLICATIONS

- INDUSTRIAL MACHINERY
- IN-PLANT AUTOMOTIVE
- FOR WATERING ON CONSTRUCTION SITES
- WELDING ROBOTS
- PNEUMATICS
- COOLING









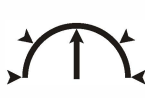
# ARK

## Air/Water Hose

Air/Water Hoses are manufactured using thermoplastic PVC compound, which have properties similar to rubber compound to withstand high pressure and temperature conditions. It is constructed with full weaving of synthetic yarn and with normal reinforcement as well in between two thermoplastic layers.

**Operating Fluid** : Air/Water/Liquid  
**Material** : Thermoplastic PVC compound  
**Reinforcement** : High Quality Synthetic Braided yarn

CORE	PLASTICIZED PVC, BLACK
REINFORCEMENT	SINGLE BRAID OF SYNTHETIC FIBER
COVER	BLACK COLOR THERMO COMPOUND
APPLICATION	DESIGNED FOR INDUSTRIAL MACHINERY, UNDERGROUND APPLICATION, CIVIL CONSTRUCTION AND OTHERS
TEMPERATURE	CONTINUOUS : -10°C TO 60°C

CORE										
	OD		ID		WP		BP		MIN. BR	
	Inch	Mm	Inch	Mm	Psi	Bar	Psi	Bar	Mm	Mm
AW111	0.453	11.5	1/4	6.5	228	16	910	64	1.575	40
AW112	0.531	13.5	0.315	8	228	16	910	64	1.772	45
AW113	0.591	15	3/8	9.5	228	16	910	64	2.362	60
AW114	0.728	18.5	1/2	12.5	228	16	910	64	2.756	70
AW115	0.866	22	0.630	16	228	16	910	64	2.953	75
AW116	1.024	26	0.787	20	142	10	569	40	3.346	85
AW117	1.240	31.5	0.984	25	142	10	569	40	5.512	140
AW118	1.555	39.5	1.240	31.5	142	10	569	40	6.693	170
AW119	1.811	46	1.496	38	142	10	569	40	7.874	200
AW120	2.323	59	1.969	50	142	10	569	40	10.630	270

## Air/Water Hose Advantages

EXCEPTIONAL ENDURANCE	RESISTANCE TO REPETITIVE FLEXING
	PROTECTION AGAINST SPARK AND FLAME
	ABRASION AND CRUSH-RESISTANT
	UV-RESISTANT
IDEAL FOR IN-PLANT AUTOMOTIVE	EXCELLENT OZONE RESISTANCE
	PERFECT FOR COOLING SYSTEMS
	MAXIMUM FLOW WITH NO PRESSURE DROP
	SILICON-FREE
READY-TO-USE	NO LUBRICATION OR PREPARATION TIME REQUIRED
	TO CONNECT : PUSH THE HOSE FULLY HOME AGAINST THE FITTING SHOULDER
	TO DISASSEMBLE : CUT THE HOSE ON THE BARBED SIDE OF THE FITTING

## APPLICATIONS

- IN-PLANT AUTOMOTIVE
- FOR WATERING ON CONSTRUCTION SITES
- WELDING ROBOTS
- PNEUMATICS
- INDUSTRIAL MACHINERY
- COOLING





# ARK

## PVC Braided Hose






PVC Braided Hoses are made from non-toxic Ingredients and offers far higher pressure capability. It possesses mirror smooth interior which permits outstanding flow characteristics and abrasion resistance with flexibility. It is light in weight and hence easy to handle. It does not crack when in use or stored for long time.

**Operating Fluid** : Air/Water/Liquid,  
**Operating Temperature** : 5°C to 80°C  
**Material** : Air/Water/Liquid,  
**Reinforcement** : High Quality Synthetic Braided yarn

### Light Duty

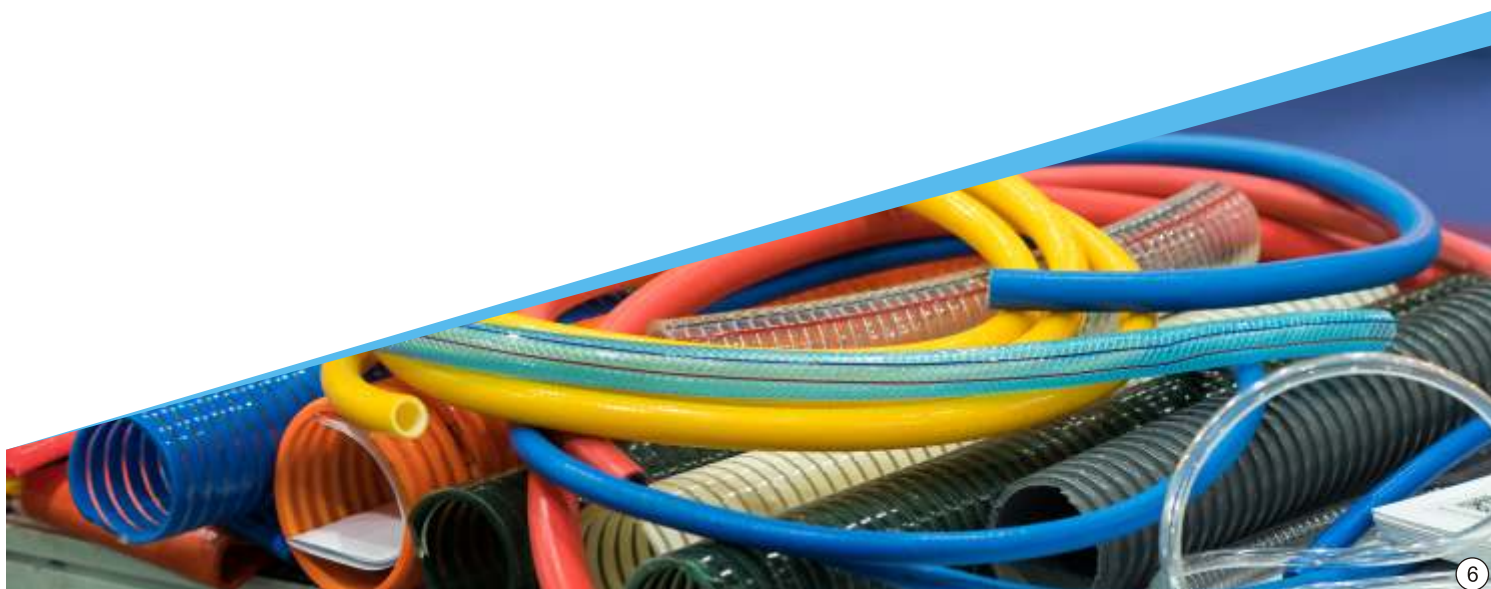
CORE										
	ID		OD		WP		BP		MIN. BR	
	Inch	Mm	Inch	Mm	Psi	Bar	Psi	Bar	Mm	Mm
APB001-L	0.236	6	0.433	11	345	24	1034	73	1.575	40
APB002-L	0.315	8	0.512	13	299	21	896	63	1.772	45
APB003-L	0.394	10	0.571	14.5	299	21	896	63	2.165	55
APB004-L	0.472	12	0.669	17	256	16	768	48	2.559	65
APB005-L	0.630	16	0.827	21	206	15	619	45	3.150	80
APB006-L	0.748	19	1.004	25.5	228	15	597	45	5.118	130
APB007-L	0.984	25	1.240	31.5	182	13	547	38	6.102	155
APB008-L	1.240	31.5	1.555	39.5	142	10	427	30	7.283	185
APB009-L	1.496	38	1.811	46	128	9	384	27	8.465	215
APB010-L	1.969	50	2.323	59	114	8	341	24	9.449	240

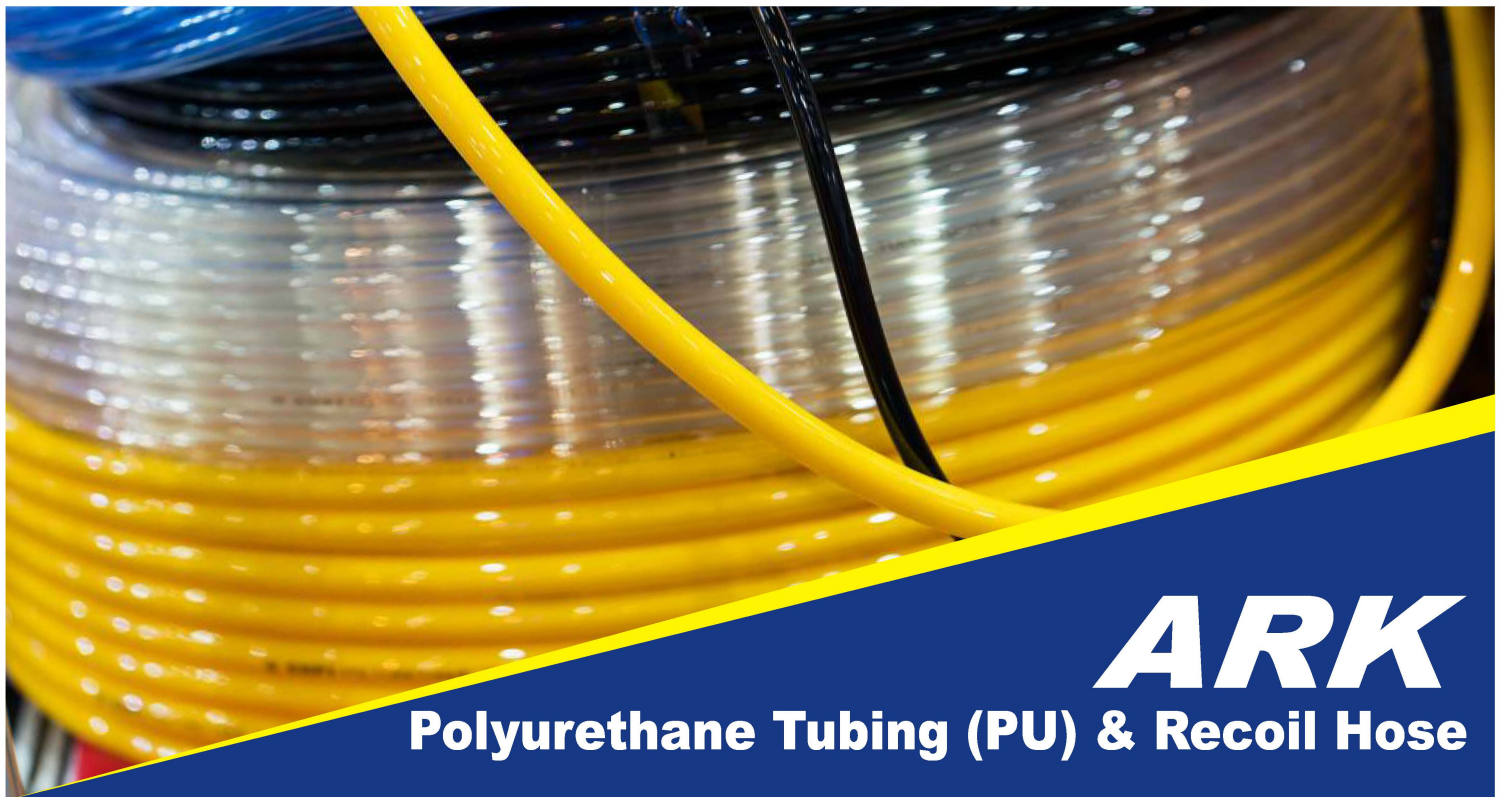
## Heavy Duty

CORE										
	ID		OD		WP		BP		MIN. BR	
	Inch	Mm	Inch	Mm	Psi	Bar	Psi	Bar	Mm	Mm
APB001-H	0.236	6	0.472	12	384	27	1152	81	1.181	30
APB002-H	0.315	8	0.551	14	398	28	1194	84	1.378	35
APB003-H	0.394	10	0.610	15.5	398	28	1194	84	1.772	45
APB004-H	0.472	12	0.748	19	284	20	853	60	2.165	55
APB005-H	0.630	16	0.886	22.5	256	18	768	54	2.953	75
APB006-H	0.748	19	1.063	27	284	20	853	60	4.331	110
APB007-H	0.984	25	1.299	33	213	15	640	45	5.315	135
APB008-H	1.240	31.5	1.594	40.5	171	12	512	36	6.496	165
APB009-H	1.496	38	1.850	47	156	11	460	33	7.677	195
APB010-H	1.969	50	2.362	60	142	10	427	30	8.661	220

## APPLICATIONS

- AGRICULTURE
- AIR & GAS LINES
- BEVERAGE TRANSFER
- CHEMICAL PROCESSING & TRANSFER



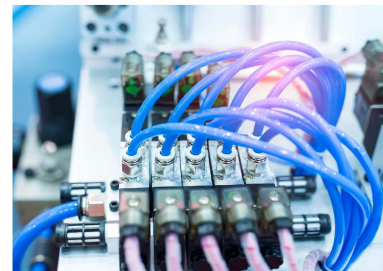







# ARK

## Polyurethane Tubing (PU) & Recoil Hose

Polyurethane Tubing is fast becoming an idea choice for pneumatic applications. It combines the elasticity of rubber with the chemical resistance normally reserved for plastics. Polyurethane Tubing is a flexible, kink resistant and abrasion resistant tube commonly used in pneumatic control systems. It is easy to assemble on to fittings and has excellent hydrolytic stability. Polyurethane Tubes are available in variety of colors and features. Polyurethane recoil hoses possess outstanding memory, a soft feel and superior flexibility. These coils are extraordinary tough and resistant to abrasion, over stretching, kinking and repeated flexing they allow easy and safe operation of pneumatic equipments.

OPERATING FLUIDS	COMPRESSED AIR, WATER, GASES, WELDING GASES, BEVERAGES, CHEMICALS
SHORE HARDNESS:	98A
APPLICABLE FITTINGS	ONE TOUCH FITTING
OPERATING TEMPERATURE	-20°C TO 60°C
MAX OPERATING PRESSURE	10 kg/cm2



CODE										
	OD		ID		WP		BP		Min	
	Inch	Mm	Inch	Mm	Psi	Bar	Psi	Bar	Inch	mm
PU01	0.157	4	0.098	2.5	156	11	780	55	0.393	10
PU02	1/4	6.4	0.157	4.1	156	11	780	55	0.787	20
PU03	0.314	8	0.196	5	156	11	780	55	1.181	30
PU04	0.314	8	0.216	5.5	135	9.5	675	47.5	1.181	32
PU05	0.314	8	0.236	6	121	8.5	605	42.5	1.377	35
PU06	3/8	9.5	0.255	6.5	156	11	780	55	1.377	35
PU07	0.393	10	0.314	8	92	6.5	460	32.5	1.968	50
PU08	0.472	12	0.314	8	156	11	780	55	1.181	35
PU09	0.472	12	0.354	9	114	8	570	40	0.826	40
PU10	0.472	12	0.393	10	78	5.5	390	27.5	0.826	45
PU11	0.551	14	0.393	10	128	9	640	45	1.771	45
PU12	0.629	16	0.472	12	107	7.5	535	37.5	1.968	50

## Type of Pneumatic Tubing

PNEUMATIC PU TUBINGS

HYDROLYSIS RESISTANT

ANTI STATIC

ANTI SPARK

FOOD GRADE AND CHEMICAL  
RESISTANT

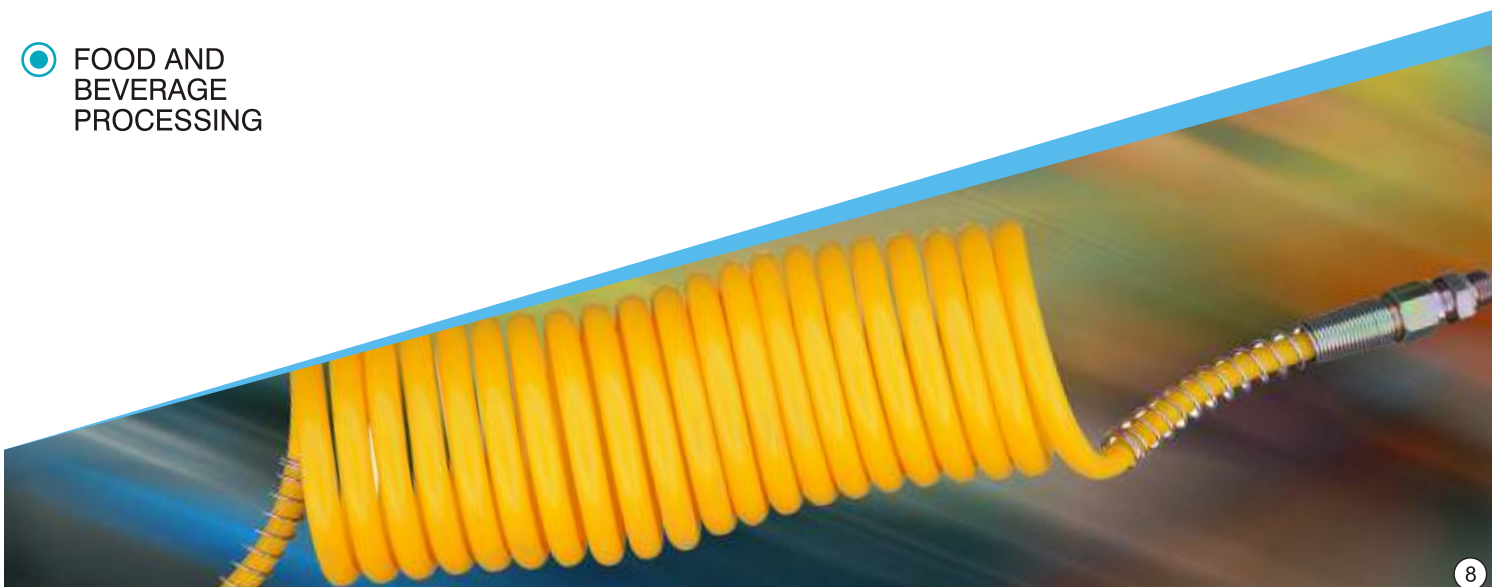
COIL TUBE SIZES	WORKING LENGTH
6mm x 4mm	3m, 5m, 10m, 15m
8mm x 5mm	3m, 5m, 10m, 15m
10mm x 6.5mm	3m, 5m, 10m, 15m
12mm x 8mm	3m, 5m, 10m, 15m

## Salient Features

- Excellent mechanical properties
- Consistent tensile strength, elongation for optimum burst pressure and longevity
- Abrasion resistance and flexural modulus as per ISO standards
- UV resistant & Silicon Free
- Good vibration absorption
- Optimal bend radius and good vacuum capability due to surface hardness
- Low resistivity for antistatic tubes
- High resistance to kinking
- Self extinguishing sheath for anti spark tubes
- Resistance to wide range of chemicals for PU tubes
- Smooth inner surface
- Available in multicolor for easy identification
- In built meter marking

## APPLICATIONS

- PNEUMATICS
- PRINTING AND PACKAGING MACHINES
- AUTOMOBILE EQUIPMENTS
- ROBOTICS AUTOMATION
- FOOD AND BEVERAGE PROCESSING










# ARK

## Thermoplastic Welding Hose

Thermoplastic Welding Hoses are manufactured using thermoplastic compound, which have properties similar to rubber compound to withstand high pressure and temperature conditions. It is constructed with full weaving of synthetic yarn and with normal reinforcement as well in between two thermoplastic layers. It is very light weight and economical compared to double braided plastic/rubber hoses. Thermoplastic welding hoses meets all requirements for welding, brazing and cutting operations including oxygen and Acetylene welding by hand and machine. This hose is manufactured by using high quality tested raw material and using best quality nitrile rubber compound, in accordance with latest technology and in compliance with set industry standards.

ARK Welding Hoses are approved by BIS via CML number 8700036611

CORE	PLASTICIZED PVC, BLACK
REINFORCEMENT	SINGLE BRAID OF SYNTHETIC FIBER
COVER	BLACK COLOR THERMO COMPOUND
APPLICATION	DESIGNED FOR INDUSTRIAL WELDING AND CUTTING APPLICATION
TEMPERATURE	CONTINUOUS : -10°C TO 75°C

CORE										
	OD		ID		WP		BP		MIN. BR	
	Inch	Mm	Inch	Mm	Psi	Bar	Psi	Bar	Mm	Mm
<b>WH08</b>	0.57	14.5	5/16	8	200	15	800	55	1.181	30
<b>WH10</b>	0.65	16.5	3/8	10	200	15	800	55	1.574	30

## Salient Features

- Approved By BIS As Per Isi 447 Wide CML Number 8700036611
- Light Weight And Flexible, Easy For Circular And Overhead Welding
- Abrasion Resistant
- Rodent Proof
- Crush And Kink Resistant
- Resistant To Chemicals And Alkali
- Available In Two Colors Red For Acetylene And Blue For Oxygen



Physical and Mechanical Properties of the Hose

Physical and Mechanical Properties of the Hose	
Tensile Strength (Lining)	10 N/mm <sup>2</sup>
Tensile Strength (Cover)	14 N/mm <sup>2</sup>
Elongation (Lining)	220 %
Elongation (Cover)	300%
Adhesion between Lining & Covers	At least 2.5 kN/m, in accordance with IS:3400 (Part-24):2001 / ISO 8033:1991

## APPLICATIONS

- SUITABLE FOR OXY-ACETYLENE
- WELDING AND CUTTING EQUIPMENTS IN ALL TYPES OF INDUSTRIAL WORKSHOPS
- OIL REFINERIES
- STEEL MILLS
- SHIP BUILDING REPAIR & BREAKING YARDS
- GARAGES
- SERVICE STATIONS










# ARK

## Thermoplastic Hose for Fire Hose Reels






Thermoplastic Hoses for fire hose reels are manufactured using thermoplastic compound, which have properties similar to rubber compound to withstand high pressure and temperature conditions and approved as per **IS 12585:1988**. It is constructed with full weaving of synthetic yarn and with normal reinforcement as well in between two thermoplastic layers. This hose is manufactured by using high quality tested raw material and using best quality nitrile rubber compound, in accordance with latest technology and in compliance with set industry standards.

CORE	PLASTICIZED PVC, BLACK
REINFORCEMENT	SINGLE BRAID OF SYNTHETIC FIBER
COVER	FLAME RETARDANT THERMO COMPOUND
APPLICATION	DESIGNED FOR HOSE REELS
TEMPERATURE	CONTINUOUS : -10°C TO 75°C

Manufactured as per IS 12585:1988 Type 1

CODE										
	OD		ID		WP		BP		Min BR	
	Inch	Mm	Inch	Mm	Psi	Bar	Psi	Bar	Inch	mm
<b>FH12-1</b>	0.688	17.5	0.472	12	101	7	426	30	2.756	70
<b>FH20-1</b>	1.024	26	0.787	20	100	7	426	30	3.346	85
<b>FH25-1</b>	1.220	31	0.984	25	100	7	426	30	5.512	140

Manufactured as per IS 12585:1988 Type 2

CODE										
	OD		ID		WP		BP		Min BR	
	Inch	Mm	Inch	Mm	Psi	Bar	Psi	Bar	Inch	mm
<b>FH12-2</b>	0.708	18	0.472	12	171	12	682	48	2.362	60
<b>FH20-2</b>	1.063	27	0.787	20	171	12	682	48	2.953	75
<b>FH25-2</b>	1.26	32	0.984	25	171	12	682	48	4.921	125

## Salient Features

- Light weight and flexible
- Abrasion Resistant
- Rodent Proof
- Crush and kink resistant
- Resistant to chemical and alkali
- Anti ageing
- Meter marking
- Available in two colors Red and Black

### Physical and Mechanical Properties of the Hose

Tensile Strength (Lining)	10 N/mm <sup>2</sup>
Tensile Strength (Cover)	14 N/mm <sup>2</sup>
Elongation (Lining)	220 %
Elongation (Cover)	300%
Adhesion between Lining & Covers	At least 2.5 kN/m, in accordance with IS:3400 (Part -24):2001 / ISO 8033:1991

## APPLICATIONS

- Fire Hose Reels
- Fire Extinguishers





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