



Industrial & Automotive Rubber Hose

The Hose Specialist.





Factory



Bangkok office



Bridgestone NCR



NCR-TRB

N.C.R. Rubber Industry Co., Ltd.

Currently operates from its new state-of-the-art manufacturing facility in Rayong, a few hours drive from the heart of Bangkok and minutes from Laem Chabang Deep Seaport. With a total production capacity of 6,000 tonnes per year, N.C.R. is one of Thailand's largest manufacturers, exporters, wholesalers and retailers of a wide range of industrial essentials. These include industrial and automotive rubber hoses, mandrel-built hoses, rubber expansion joints, marine fenders, bridge bearing pads, rubber and sponge profiles, silicone tubes and profiles, and moulded rubber parts, just to name a few.

N.C.R. has a mission to become "an organization which supports learning & development corporate culture, and delivers quality products and services, with emphasis on safety and environment, under a fair system of mutual benefits to all stakeholders". To expand its distribution channels, both domestically and internationally,

N.C.R. has established five affiliated companies :

- | | | |
|---------------------------------------|-----------------------------------|------------------------------|
| 1. Wattanasuk International Co., Ltd. | 2. N.C.B. International Co., Ltd. | 3. Bridgestone NCR Co., Ltd. |
| 4. NCR-TRB Industry Co., Ltd. | 5. Namcharoen Bangkok Co., Ltd. | |

Milestone

- 1960 : Established the first company in the name of "Namcharoen Bangkok" by Mr Charoenchai Boonbandansook.
- 1962 : Opened the first factory in Samutprakarn, Thailand.
- 1977 : Started export business. First customers were from Australia and Germany.
- 1980 : Changed company's name to "N.C.R. Rubber Industry Co., Ltd."
- Moved factory to a second location in Samutprakarn, Thailand.
- 1997 : Joint-venture with Bridgestone Corp., Japan to establish "Bridgestone NCR Co., Ltd." in Rayong, Thailand.
- 1999 : Certified ISO 9000:2000 by SGS / UKAS
- 2000 : Awarded "Thailand's Brand" certification by Ministry Of Commerce, The Royal Thai Government.
- 2004 : Opened the third factory in Rayong.
- Selected as 1 of 58 prominent enterprises by The Bangkok Post.
- 2005 : Awarded "5S Silver Award" by Thai-Japanese Technology Promotion Association.
- Awarded Quality Control Certification by Thai-Honda Manufacturing Co., Ltd.
- 2006 : Started Total Productive Management (TPM) Project.
- 2010 : Celebrated 50th Anniversary.
- 2012 : Awarded "Thailand LEAN Award 2012-Bronze"



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3	Hose Construction, Hose Selection
4	Hose Handling
5	Unit Conversion

Industrial Hose

Air & Water

7	> Air Hose
8	> Hot Air Blower Hose
9	> Jack Hammer Hose
10	> Water Hose
11	> Fire Reel Hose
11	> Washing Machine Hose

Welding & Cutting

12	> Oxygen & Acetylene Hose
13	> Oxygen & LPG Hose
13	> Gas Hose

Material Handling

14	> Cement Hose
15	> Sandblast Hose
16	> Dredging Hose

Petroleum

18	> Rail & Road Tanker Hose
18	> Oil Hose

Special Application

20	> Multi-Purpose Hose
20	> Petrol Pump Hose
21	> Flex Hose

Automotive Hose

22	> Air Conditioning Hose
23	> Brake Hose, Windshield Washer Tubing
24	> Fuel / Oil Hose
25	> Car Heater Hose, CNG/LPG Hose



Air



Water



Oil



Gas



Sand/Cement



Stone



Acid Solvent



Alkali Solvent



Delivery



Suction and Discharge



Vibration



Minimum Bending Radius (x times of ID)



Minimum Working Temperature (°C)



Maximum Working Temperature (°C)



Safety Factor (x times of WP)



Smooth



Fabric-wrapped



Corrugated



Ribbed

Hose Construction



The tube is the innermost rubber element of the hose. For suitable service, the tube must be resistant to the materials it is intended to convey. The characteristics of the rubber compound from which the tube is made and the thickness of the tube are based on the service for which the hose is designed.

The Reinforcement can be textile, plastic, or metal, alone or in combination, built into the body of the hose to withstand internal pressures, external forces, or combination of both. The type and amount of reinforcing material used depends on the method of manufacture and on the service requirements.

The cover is the outer element of the hose. The prime function of the cover is to protect the reinforcement from damage and withstand the environment in which the hose will be used. Covers are designed for specific applications and can be made to be resistant to oils, acids, abrasion, flexing, sunlight, ozone, etc.

Hose Selection

When choosing a hose, it is important to know the following basic information.

Inside Diameter (ID)	Generally used to refer to hose size.
Outside Diameter (OD)	Overall outside size of hose. Important when choosing couplings or clamps.
Thickness	Total thickness of the hose wall, including tube, reinforcement and cover.
Working Pressure (WP)	The maximum working pressure for which the hose is designed and to which it may be subjected.
Burst Pressure (BP)	The pressure which a new hose can resist before bursting.
Bending Radius	The minimum bending radius to which the hose can be curved.
Length (L)	Refers to the supplied length of hose. For coupled hoses, the length is counted from both coupling ends.
Product Standard or Certificate	Refers to any international standards, production certificates or other design regulations.
Operating Temperature	Temperature of media conveyed, and of the surrounding.
Aromatic Hydrocarbon Content	The maximum percentage amount of aromatic hydrocarbon in fluid to be transported.
External Conditions	The environment in which the hose is to be used e.g. climate and ozone conditions, abrasion, contact to oil or grease, etc.
Special Features	Special requirements e.g. spiral reinforcement or electric conductive wire.
Others	Marking, packaging, delivery or other requirements.

CARE, MAINTENANCE AND STORAGE *

Hose has a limited life and the user must be alert to signs of impending failure, particularly when the conditions of service include high working pressures and/or the conveyance or containment of hazardous materials. The periodic inspection and testing procedure described here provide a schedule of specific measures which constitute a minimum level of user action to detect signs indicating hose deterioration or loss of performance before conditions leading to malfunction or failure are reached.

SAFETY WARNING : Failure to properly follow the manufacturer's recommended procedures for the care, maintenance and storage of a particular hose might result in its failure to perform in the manner intended and might result in possible damage to property and serious bodily injury.

General Care and Maintenance of Hose

Hose should not be subjected to any form of abuse in service. It should be handled with reasonable care. Hose should not be dragged over sharp or abrasive surfaces unless specifically designed for such service. Care should be taken to protect hose from severe and loads for which the hose or hose assembly were not designed. Hose should be used at or below its rated working pressure; any changes in pressure should be made gradually so as to not subject the hose to excessive surge pressures. Hose should not be kinked or be run over by equipment. In handling large size hose, dollies should be used whenever possible; slings or handling rigs, properly placed, should be used to support heavy hose used in oil suction and discharge service.

Storage

Rubber hose in storage can be affected adversely by temperature, humidity, ozone, sunlight, oils, solvents, corrosive liquids and fumes, insects, rodents and radioactive materials.

The appropriate method for storing hose depends to a great extent on its size (diameter and length), the quantity to be stored, and the way in which it is packaged. Hose should not be piled or stacked to such an extent that the weight of the stack creates distortions on the lengths stored at the bottom. Since hose vary considerably in size, weight, and length, it is not practical to establish definite recommendations on this point. Hose having a very light wall will not support as much load as a hose having a heavier wall or a hose having a wire reinforcement. Hose which is shipped in coils or bales should be stored so that the coils are in a horizontal plane.

Whenever feasible, rubber hose should be stored in their original shipping containers, especially when such containers are wooden crates or cardboard cartons which provide some protection against the deteriorating effects of oils, solvents, and corrosive liquids. Shipping containers also afford some protection against ozone and sunlight. Certain rodents and insects will damage rubber hose, and adequate protection from them should be provided. Cotton jacketed hose should be protected against fungal growths if the hose is to be stored for prolonged periods in humidity conditions in excess of 70%.

The ideal temperature for the storage of rubber hose range from 50° to 70° F (10°C to 21°C) with a maximum limit of 100°F (38°C). If stored below 32°F (0°C), some rubber hose become stiff and would require warming before being placed in service. Rubber hose should not be stored near sources of heat, such as radiators, base heaters, etc., nor should they be stored under conditions of high or low humidity.

To avoid the adverse effects of high ozone concentration, hose should not be stored near electrical equipment that may generate ozone or be stored for any lengthy period in geographical areas of known high ozone concentration. Rubber hose should not be stored in locations where the ozone level exceeds the National Institute of Occupational Safety and Health's upper limit of 0.10ppm. Exposure to direct or reflected sunlight, even through windows, should also be avoided. Uncovered rubber hose should not be stored under fluorescent or mercury lamps which generate light waves harmful to rubber.

Storage areas should be relatively cool and dark, and free of dampness and mildew. Rubber hose should be stored on a first-in, first-out basis, since even under the best conditions, an unusually long shelf life could deteriorate certain rubber products.

Proper storage of rubber hose could minimize deterioration from exposure to elements or environments which are known to be deleterious to rubber hose. Proper storage conditions can enhance and extend substantially the ultimate life of rubber hose.

* (Referred from RMA Hose Handbook IP-2 Seventh Edition 2003)

LENGTH

	m.meter	c.meter	meter	k.meter	inch	foot	yard	mile
m.meter	1	0.10000	0.00100	-	0.03937	0.00328	0.00109	-
c.meter	10.0000	1	0.01000	0.00001	0.39371	0.03281	0.01094	-
meter	1000.00	100.000	1	0.00100	39.3707	3.28089	1.09363	0.00062
k.meter	-	100000	1000.00	1	39370.7	3280.89	1093.63	0.62138
inch	25.3995	2.53995	0.02540	0.00003	1	0.08333	0.02778	0.00002
foot	304.794	30.4794	0.30479	0.00030	12.0000	1	0.33333	0.00019
yard	914.383	91.4383	0.91438	0.00091	36.0000	3.00000	1	0.00057
mile	-	160931	1609.31	1.60931	63360.0	5280.00	1760.00	1

AREA

	meter ²	are	hectare	k.meter ²	foot ²	yard ²	acre ²	mile ²
meter ²	1	0.01000	0.00010	-	10.7639	1.19600	0.00025	-
are	100.000	1	0.01000	0.00010	1076.39	119.600	0.02471	0.00004
hectare	10000.0	100.000	1	0.01000	107639	11960.0	2.47105	0.00386
k.meter ²	-	10000.0	100.000	1	-	-	247.105	0.38610
foot ²	0.09290	0.00093	0.00001	-	1	0.11111	0.00002	-
yard ²	0.83613	0.00836	0.00008	-	9.00000	1	0.00021	-
acre	4046.87	40.4687	0.40469	0.00405	43560.2	4840.00	1	0.00156
mile ²	-	25900.2	259.002	2.59002	-	-	640.000	1

WEIGHT

	gram	k.gram	ton	s.ton	l.ton	ounce	pound
gram	1	0.00100	-	-	-	0.03527	0.00220
k.gram	1000.00	1	0.00100	0.00110	0.00098	35.2739	2.20462
ton	-	1000.00	1	1.10230	0.98421	35273.9	2204.62
s.ton	907185	907.185	0.90719	1	0.89286	32000.0	2000.00
l.ton	-	1016.04	1.01640	1.12000	1	35840.0	2240.00
ounce	28.3495	0.02835	0.00003	0.00003	0.00003	1	0.06250
pound	453.529	0.45359	0.00045	0.00050	0.00045	16.0000	1

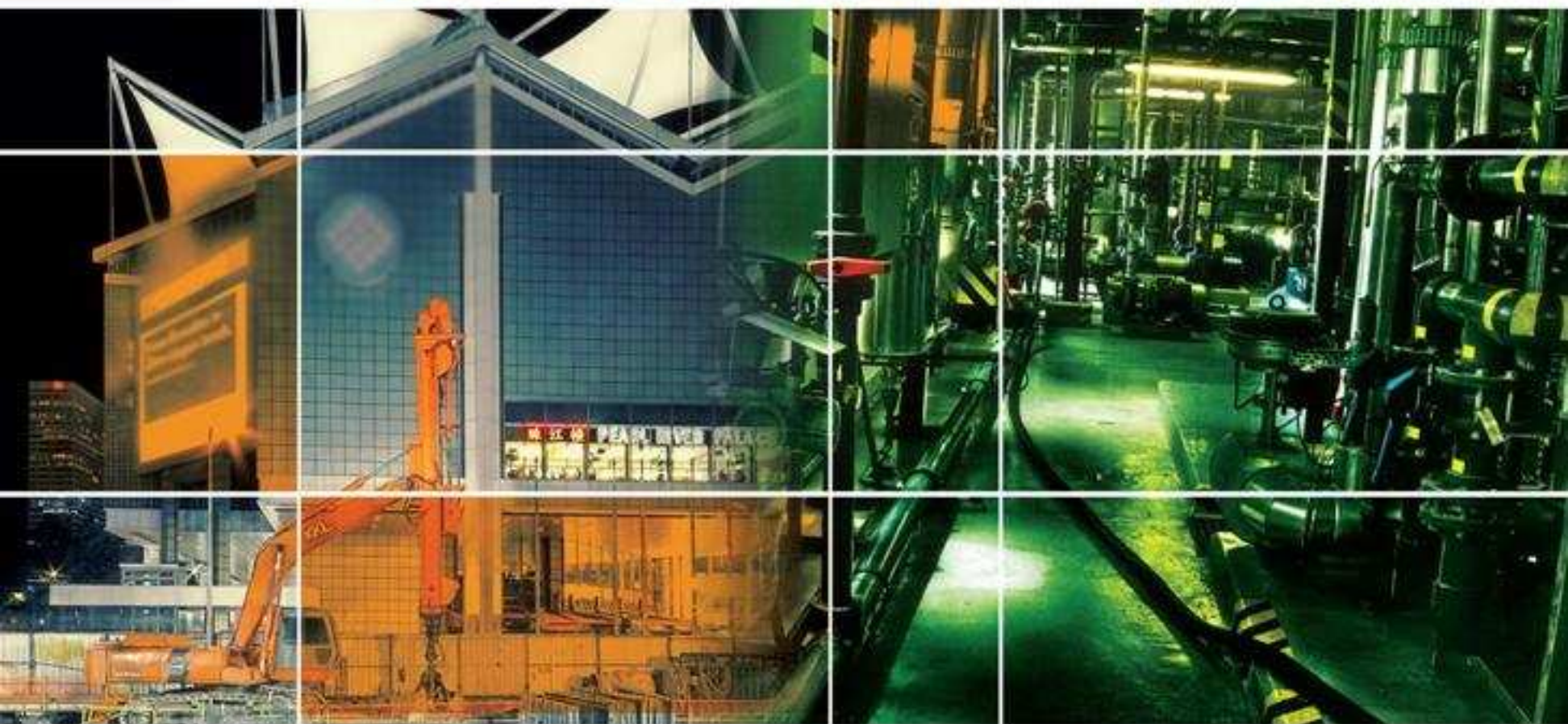
CAPACITY

	cub.meter	liter	cub.inch	cub.foot	cub.yard	U.S.gallon	U.K.gallon
cub.meter	1	1000.00	61027.1	35.3147	1.30802	264.186	220.216
liter	0.00100	1	61.0271	0.03532	0.00131	0.26419	0.22022
cub.inch	0.00002	0.01639	1	0.00058	0.00002	0.00433	0.00361
cub.foot	0.02832	28.3167	1728.00	1	0.03704	7.48051	6.23549
cub.yard	0.76455	764.554	46656.0	27.0000	1	201.974	168.358
U.S.gallon	0.00379	3.78543	231.000	0.13368	0.00495	1	0.83270
U.K.gallon	0.00455	4.54596	277.413	0.16037	0.00594	1.20091	1

PRESSURE

	bar	atm	mm Hg	m head of water	PSI	MPa	kgf/cm ²
bar	1	0.98692	750.064	10.1974	14.5038	0.10000	1.01972
atm	1.01325	1	760.002	10.3326	14.6959	0.101325	1.03322
mm Hg	0.00133	0.00136	1	0.01350	0.01933	0.00013	0.00136
m head of water	0.09806	0.09678	73.5541	1	1.42229	0.09806	0.99997
PSI	0.06894	0.06804	51.7150	0.70308	1	0.00689	0.07030
MPa	10.0000	9.86923	7500.63	101.974	145.038	1	10.1971
kgf/cm ²	0.98066	0.6784	753.561	10.0002	14.2233	0.09807	1

INDUSTRIAL HOSE



COMPRESSED AIR HOSE



Applications

For use with air compressors in mines, quarries, service stations, construction sites, shipyards, factories and other general services.

Tube

Synthetic rubber

Reinforcement

High tensile synthetic textile filament yarn

Cover

Ozone and weather resistant synthetic rubber

Marking

AIR HOSE ISO 2398/A1 ID" WP XX PSI BP XX PSI



Air 30 Series
ISO 2398/A1



Air 45 Series
ISO 2398/A1



Air 60 Series
ISO 2398/A1



Nominal ID		ID	OD	WP		BP		L	Product code
Inch	mm	mm	mm	bar	PSI	bar	PSI	m	
1/4	6	6.3	12.5	10	150	30	450	100	AZNA06BSJ01
5/16	8	8.0	15.0	10	150	30	450	100	AZNA08BSJ01
3/8	9	9.5	16.5	10	150	30	450	100	AZNA09BSJ01
1/2	12	12.7	20.0	10	150	30	450	100	AZNA12BSJ01
5/8	16	16.0	24.0	10	150	30	450	50	AZNA16BSE01
3/4	19	19.0	28.0	10	150	30	450	50	AZNA19BSE01
1	25	25.4	36.0	10	150	30	450	50	AZNA25BSE01
1.1/4	32	31.8	46.0	10	150	30	450	30	AZNA31BSC01
1.1/2	38	38.1	53.0	10	150	30	450	30	AZNA38BSC01

Nominal ID		ID	OD	WP		BP		L	Product code
Inch	mm	mm	mm	bar	PSI	bar	PSI	m	
1/4	6	6.3	13.0	15	225	45	660	100	AZNA06BSJ02
5/16	8	8.0	15.5	15	225	45	660	100	AZNA08BSJ02
3/8	9	9.5	17.0	15	225	45	660	100	AZNA09BSJ02
1/2	12	12.7	20.5	15	225	45	660	100	AZNA12BSJ02
5/8	16	16.0	25.0	15	225	45	660	50	AZNA16BSE02
3/4	19	19.0	29.0	15	225	45	660	50	AZNA19BSE02
1	25	25.4	37.0	15	225	45	660	50	AZNA25BSE02

Nominal ID		ID	OD	WP		BP		L	Product code
Inch	mm	mm	mm	bar	PSI	bar	PSI	m	
1/4	6	6.3	13.5	20	300	60	900	100	AZNA06BSJ03
5/16	8	8.0	16.0	20	300	60	900	100	AZNA08BSJ03
3/8	9	9.5	17.5	20	300	60	900	100	AZNA09BSJ03
1/2	12	12.7	21.0	20	300	60	900	100	AZNA12BSJ03
5/8	16	16.0	26.0	20	300	60	900	50	AZNA16BSE03
3/4	19	19.0	30.0	20	300	60	900	50	AZNA19BSE03
1	25	25.4	38.0	20	300	50	725	50	AZNA25BSE03

AIR HOSE - HEAVY DUTY -



Applications

For use with air compressors in quarries, service stations, construction sites, shipyards, factories and other general services.

Tube

Oil mist resistant synthetic rubber

Reinforcement

High tensile synthetic fabric

Cover

Ozone and weather resistant synthetic rubber

Marking

INTER AD300 -- AIR HOSE -- HEAVY DUTY -- WP 300 PSI



Nominal ID		ID	OD	WP		BP		L	Product code
Inch	mm	mm	mm	bar	PSI	bar	PSI	m	
1.1/4	32	32.0	44.0	20	300	60	900	40	BR-52001
1.1/2	38	38.0	51.0	20	300	60	900	40	BR-52002
2	51	50.8	65.0	20	300	60	900	40	BR-52003
2.1/2	63	63.5	80.0	20	300	60	900	40	BR-52004
3	76	76.2	92.0	20	300	60	900	40	BR-52005
4	102	101.6	118.0	20	300	60	900	40	BR-52006

HOT AIR BLOWER HOSE



Applications

For conveying hot air from the compressor / blower on dry material (for eg. cement) unloading systems.

Tube

Excellent heat resistant synthetic rubber

Reinforcement

High tensile synthetic fabric

Cover

High abrasion and heat resistant synthetic rubber

Marking

INTER HAB150 -- HOT AIR BLOWER HOSE -- HEAVY DUTY -- WP 150 PSI



Nominal ID		ID	OD	WP		BP		L	Product code
Inch	mm	mm	mm	bar	PSI	bar	PSI	m	
1.1/2	38	38.0	49.0	10	150	30	450	40	BH-41011
2	51	50.8	64.0	10	150	30	450	40	BH-41012
2.1/2	63	63.5	77.0	10	150	30	450	40	BH-41013
3	76	76.2	89.0	10	150	30	450	40	BH-41014
3.1/2	90	90.0	104.0	10	150	30	450	40	BH-41015
4	102	101.6	116.0	10	150	30	450	40	BH-41016

JACK HAMMER HOSE



Applications

For use with air compressors in construction works, quarries and many civil engineering and industrial applications.

Tube

Oil mist resistant synthetic rubber

Reinforcement

High tensile synthetic textile filament yarn

Cover

Ozone and weather resistant synthetic rubber

Marking

INTER JACK HAMMER HOSE 3/4" WP 300 PSI



ISO 2398/A2



Nominal ID		ID	OD	WP		BP		L	Product code
Inch	mm	mm	mm	bar	PSI	bar	PSI	m	
3/4	19	19.0	29.2	20	300	60	900	50	AZNA19YSE01

SUPER JACK HAMMER HOSE - HEAVY DUTY -



Applications

For heavy duty handling of oil-charge compressed air and high pressure compressor and other equipment used on public work sites.

Tube

Oil resistant synthetic rubber

Reinforcement

High tensile synthetic textile filament yarn

Cover

Oil, Ozone and weather resistant synthetic rubber

Marking

INTER SUPER JACK HAMMER HOSE 3/4" WP 300 PSI



ISO 2398/A2



Nominal ID		ID	OD	WP		BP		L	Product code
Inch	mm	mm	mm	bar	PSI	bar	PSI	m	
3/4	19	19.0	30.0	20	300	80	1200	50	AZNA19BSE04

WATER DELIVERY HOSE



Applications

For discharge of water and other non-corrosive liquid.

Tube

Synthetic rubber

Reinforcement

High tensile synthetic fabric

Cover

Ozone and weather resistant synthetic rubber

Marking

JET WD150 -- WATER DELIVERY HOSE -- WP 150 PSI



Nominal ID		ID	OD	WP		BP		L	Product code
Inch	mm	mm	mm	bar	PSI	bar	PSI	m	
1.1/4	32	32.0	41.0	10	150	30	450	40	BD-52001
1.1/2	38	38.0	47.0	10	150	30	450	40	BD-52002
2	51	50.8	60.0	10	150	30	450	40	BD-52003
2.1/2	63	63.5	74.0	10	150	30	450	40	BD-52004
3	76	76.2	88.0	10	150	30	450	40	BD-52005
4	102	101.6	115.0	10	150	30	450	40	BD-52006
5	127	127.0	140.0	10	150	30	450	40	BD-52007
6	152	152.4	165.0	10	150	30	450	40	BD-52008

WATER SUCTION & DISCHARGE HOSE



Applications

For suction and discharge of water and other non-corrosive liquid.

Tube

Synthetic rubber

Reinforcement

High tensile synthetic fabric with steel helical embedded wire

Cover

Ozone and weather resistant synthetic rubber

Marking

WSD150 -- WATER SUCTION & DISCHARGE HOSE -- WP 150 PSI



Nominal ID		ID	OD	WP		BP		L	Product code
Inch	mm	mm	mm	bar	PSI	bar	PSI	m	
1.1/4	32	32.0	42.0	10	150	30	450	40	BS-51001
1.1/2	38	38.0	48.0	10	150	30	450	40	BS-51002
2	51	50.8	62.0	10	150	30	450	40	BS-51003
2.1/2	63	63.5	75.0	10	150	30	450	40	BS-51004
3	76	76.2	89.0	10	150	30	450	40	BS-51005
3.1/2	90	90.0	103.0	10	150	30	450	40	BS-51006
4	102	101.6	115.0	10	150	30	450	40	BS-51007
5	127	127.0	142.0	10	150	30	450	40	BS-51008
6	152	152.4	168.0	10	150	30	450	40	BS-51009

FIRE REEL HOSE



Applications

For use on hose reels in buildings and factories for first aid fire fighting purposes.

Tube

Synthetic rubber

Reinforcement

High tensile synthetic textile filament yarn

Cover

Ozone and weather resistant synthetic rubber

Marking

INTER FIRST AID REEL HOSE BS 3169 A1 ID MM WP 225 PSI



BS 3169 A1



Nominal ID		ID	OD	WP		BP		L	Product code
Inch	mm	mm	mm	bar	PSI	bar	PSI	m	
3/4	19	19.0	29.0	15	225	48	720	30.5	AZNF19RSV01
1	25	25.4	36.0	15	225	48	720	30.5	AZNF25RSV01
1	25	25.4	36.0	15	225	48	720	36	AZNF25RS001

WASHING MACHINE HOSE



Applications

For use as inlet and outlet hoses in washing machines.

Tube

Synthetic rubber

Reinforcement

High tensile synthetic textile filament yarn

Cover

Ozone and weather resistant synthetic rubber

Marking

INTER ISO 6804/A2 - ID MM



ISO 6804/A2



Inlet hose

Nominal ID		ID	OD	WP		BP		L	Product code
Inch	mm	mm	mm	bar	PSI	bar	PSI	m	
3/8	10	10.0	17.0	15	225	60	900	40	AXXG10KSD01
1/2	12	12.7	20.0	15	225	60	900	40	AXXG12KSD01

Outlet hose



Nominal ID		ID	OD	WP		BP		L	Product code
Inch	mm	mm	mm	bar	PSI	bar	PSI	m	
1/2	12	12.7	18.0	-	-	-	-	40	AXXG12KRD01
3/4	19	19.0	26.0	-	-	-	-	40	AXXG19KRD01
7/8	22	22.0	30.0	-	-	-	-	40	AXXG22KRD01

WELDING & CUTTING HOSE (Oxygen & Acetylene)



Applications

For use with welding and allied processes in workshops, shipyards, construction sites and factories.

Tube

High ignition temperature synthetic rubber

Reinforcement

High tensile synthetic textile filament yarn

Cover

Excellent ozone and weather resistant synthetic rubber

Marking

ISO 3821 -2MPa (20 bar) -ID- **JWER** -YY



Green (Oxygen)
Blue (Oxygen)
Red (Acetylene)

Single line welding hose
ISO 3821, AS 1335



Nominal ID		ID	OD	WP		BP		L	Product code	
Inch	mm	mm	mm	bar	PSI	bar	PSI	m	Blue	Red
3/16	5	5.0	12.0	20	300	60	900	100	AXXS05USJ02	AXXS05RSJ02
1/4	6	6.3	13.3	20	300	60	900	100	AXXS06USJ02	AXXS06RSJ02
1/4	6	6.3	16.0	20	300	60	900	40	AXXS06USD01	-
5/16	8	8.0	15.0	20	300	60	900	100	AXXS08USJ01	AXXS08RSJ01
3/8	9	9.0	16.0	20	300	60	900	100	AXXS09USJ01	AXXS09RSJ02
3/8	10	10.0	17.0	20	300	60	900	100	AXXS10USJ01	AXXS10RSJ01
1/2	12	12.7	21.0	20	300	60	900	100	AXXS12USJ02	AXXS12RSJ02
3/4	19	19.0	28.0	20	300	60	900	100	AXXS19USJ02	AXXS19RSJ02

Twin line welding hose
ISO 3821, AS 1335



Nominal ID		ID	OD	WP		BP		L	Product code	
Inch	mm	mm	mm	bar	PSI	bar	PSI	m		
3/16+3/16	5+5	5.0+5.0	12.0+12.0	20	300	60	900	100	AXXT553SJ01	
1/4+1/4	6+6	6.3+6.3	13.3+13.3	20	300	60	900	100	AXXT663SJ01	
1/4+3/8	6+9	6.3+9.0	13.3+16.0	20	300	60	900	100	AXXT693SJ01	
1/4+3/8	6+9	6.3+9.0	16.0+16.0	20	300	60	900	40	AXXT693SD02	
5/16+5/16	8+8	8.0+8.0	15.0+15.0	20	300	60	900	100	AXXT883SJ01	
5/16+3/8	8+9	8.0+9.0	15.0+16.0	20	300	60	900	100	AXXT893SJ01	
3/8+3/8	9+9	9.0+9.0	16.0+16.0	20	300	60	900	100	AXXT993SJ01	
3/8+3/8	10+10	10.0+10.0	17.0+17.0	20	300	60	900	100	AXXT003SJ01	

WELDING HOSE WITH FITTINGS



Depending on customer's requirement, fitting can be made to meet the standards of UNF or BSP. Fittings material is made from brass.

WELDING & CUTTING HOSE (Oxygen & LPG)



Applications

For use with welding and allied processes in workshops, shipyards, construction sites and factories.

Tube

High ignition temperature synthetic rubber

Reinforcement

High tensile synthetic textile filament yarn

Cover

Excellent ozone and weather resistant synthetic rubber

Marking

ISO 3821 -2MPa (20 bar) -ID- **JNR** -YY



Blue (Oxygen)
Orange (LPG)

LPG hose
ISO 3821, AS 1335



Nominal ID		ID	OD	WP		BP		L	Product code
Inch	mm	mm	mm	bar	PSI	bar	PSI	m	
3/16	5	5.0	12.0	20	300	60	900	100	AXXL05OSJ01
1/4	6	6.3	13.3	20	300	60	900	100	AXXL06OSJ01
5/16	8	8.0	15.0	20	300	60	900	100	AXXL08OSJ01
3/8	10	10.0	17.0	20	300	60	900	100	AXXL10OSJ01

Oxygen & LPG hose
ISO 3821, AS 1335



Nominal ID		ID	OD	WP		BP		L	Product code
Inch	mm	mm	mm	bar	PSI	bar	PSI	m	
3/16+3/16	5+5	5.0+5.0	12.0+12.0	20	300	60	900	100	AXXT555SJ01
1/4+1/4	6+6	6.3+6.3	13.3+13.3	20	300	60	900	100	AXXT665SJ01
5/16+5/16	8+8	8.0+8.0	15.0+15.0	20	300	60	900	100	AXXT885SJ01
3/8+3/8	10+10	10.0+10.0	17.0+17.0	20	300	60	900	100	AXXT005SJ01

GAS HOSE (N₂, Ar, CO₂)

Applications

For use with welding and allied processes in workshops, shipyards, construction sites and factories.

Tube

High ignition temperature synthetic rubber

Reinforcement

High tensile synthetic textile filament yarn

Cover

Excellent ozone and weather resistant synthetic rubber

Marking

ISO 3821 -2MPa (20 bar) -ID- **JNR** -YY



ISO 3821



Nominal ID		ID	OD	WP		BP		L	Product code
Inch	mm	mm	mm	bar	PSI	bar	PSI	m	
3/16	5	5.0	12.0	20	300	60	900	100	AXXS05BSJ02
1/4	6	6.3	13.3	20	300	60	900	100	AXXS06BSJ02
5/16	8	8.0	15.0	20	300	60	900	100	AXXS08BSJ01
3/8	10	10.0	17.0	20	300	60	900	100	AXXS10BSJ01

CEMENT DELIVERY HOSE



Applications

For discharge of cement and abrasive slurry materials.

Abrasion resistant refer to DIN 53516

Tube

Excellent abrasion resistant synthetic rubber

Reinforcement

High tensile synthetic fabric

Cover

High abrasion and weather resistant synthetic rubber

Marking

~~NEW~~ CD150 - CEMENT DELIVERY HOSE -- HEAVY DUTY -- WP 150 PSI



Nominal ID		ID	OD	WP		BP		L	Product code
Inch	mm	mm	mm	bar	PSI	bar	PSI	m	
3	76	76.2	95.0	10	150	30	450	40	BC-42001
4	102	101.6	122.0	10	150	30	450	40	BC-42002
5	127	127.0	149.0	10	150	30	450	40	BC-42003

CEMENT SUCTION & DISCHARGE HOSE



Applications

For suction and discharge of cement and abrasive slurry materials.

Abrasion resistant refer to DIN 53516

Tube

Excellent abrasion resistant synthetic rubber

Reinforcement

High tensile synthetic fabric with steel helical embedded wire

Cover

High abrasion and weather resistant synthetic

Marking

NEW CSD150 -- CEMENT SUCTION & DISCHARGE HOSE --
HEAVY DUTY -- WP 150 PSI



Nominal ID		ID	OD	WP		BP		L	Product code
Inch	mm	mm	mm	bar	PSI	bar	PSI	m	
3	76	76.2	98.0	10	150	30	450	40	BC-41001
4	102	101.6	124.0	10	150	30	450	40	BC-41002
5	127	127.0	152.0	10	150	30	450	40	BC-41003
6	152	152.4	174.0	10	150	30	450	40	BC-41004

SANDBLAST HOSE



Applications

For conveying abrasive sandblasting materials in cleaning and blasting metal, casting and concrete surfaces.

Tube

Excellent abrasion resistant synthetic rubber

* Abrasion resistant : DIN 53516 $\leq 60\text{mm}^3$

Reinforcement

High tensile synthetic fabric

Cover

High abrasion and weather resistant synthetic rubber

Marking

SB175 -- SANDBLAST HOSE -- HEAVY DUTY -- WP 175 PSI



Nominal ID		ID	OD	WP		BP		L	Product code
Inch	mm	mm	mm	bar	PSI	bar	PSI	m	
3/4	19	19.0	33.0	12	175	36	530	40	BA-52002
1	25	25.4	39.0	12	175	36	530	40	BA-52003
1. 1/4	32	32.0	48.0	12	175	36	530	40	BA-52004
1. 1/2	38	38.0	54.0	12	175	36	530	40	BA-52005
2	51	50.8	69.0	12	175	36	530	40	BA-52006
2. 1/2	63	63.5	82.0	12	175	36	530	40	BA-52007
3	76	76.2	96.0	12	175	36	530	40	BA-52008
4	102	101.6	122.0	12	175	36	530	40	BA-52009



DREDGING HOSE

Dredging Pipe Joint Hose (Straight Ends Type)



Applications

For discharge of sand and abrasive slurry materials.
(dredging purpose)

Tube

Abrasion resistant synthetic rubber

Reinforcement

High tensile synthetic fabric

Cover

Ozone and abrasion resistant synthetic rubber

Max. bending angle

10 Degrees

Marking

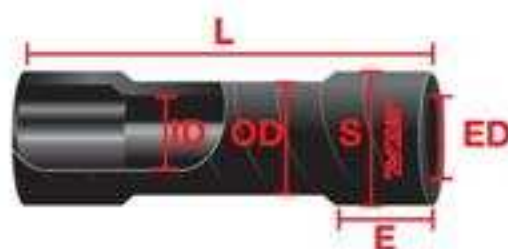
NCR



WP 5 kg/cm ² (75 PSI)				WP 8 kg/cm ² (120 PSI)				WP 10 kg/cm ² (150 PSI)			
ID	OD	L	Product Code	ID	OD	L	Product Code	ID	OD	L	Product Code
mm	mm	mm		mm	mm	mm		mm	mm	mm	
203	249	950	BM-2001	203	249	950	BM-2015	203	249	950	BM-2029
254	299	1000	BM-2002	254	299	1000	BM-2016	254	299	1000	BM-2030
301	347	1050	BM-2003	301	347	1050	BM-2017	301	351	1050	BM-2031
355	400	1100	BM-2004	355	404	1100	BM-2018	355	404	1100	BM-2032
410	458	1200	BM-2005	410	462	1200	BM-2019	410	465	1200	BM-2033
510	569	1300	BM-2006	510	575	1300	BM-2020	510	579	1300	BM-2034
560	622	1350	BM-2007	560	626	1350	BM-2021	560	633	1350	BM-2035

For custom-made specification, please contact N.C.R. sales team

Dredging Pipe Joint Hose (Enlarged Ends Type)



ID = Inside Diameter
OD = Outside Diameter
ED = Diameter of enlarged part
E = Length of enlarged part
S = Stretch
L = Length

				WP 5 kg/cm ² (75 PSI)			WP 8 kg/cm ² (120 PSI)			WP 10 kg/cm ² (150 PSI)		
ID	ED	E	L	S	OD	Product Code	S	OD	Product Code	S	OD	Product Code
mm	mm	mm	mm	mm	mm		mm	mm		mm	mm	
203	232	350	950	280	249	BM-2043	280	249	BM-2057	280	249	BM-2071
254	283	350	1000	331	299	BM-2044	331	299	BM-2058	331	299	BM-2072
301	335	350	1050	383	347	BM-2045	383	347	BM-2059	387	351	BM-2073
355	389	350	1100	437	400	BM-2046	441	404	BM-2060	441	404	BM-2074
410	444	350	1200	492	458	BM-2047	496	462	BM-2061	499	465	BM-2075
510	558	350	1300	616	569	BM-2048	623	575	BM-2062	627	579	BM-2076
560	608	350	1350	670	622	BM-2049	673	626	BM-2063	680	633	BM-2077

For custom-made specification, please contact N.C.R. sales team

DREDGING HOSE

Pipe Joint Hose with Built-in Flange



Applications

For discharge of sand and abrasive slurry materials.
(dredging purpose)

Tube

Abrasion resistant synthetic rubber

Reinforcement

High tensile synthetic fabric with steel helical
embedded wire

Cover

Ozone and abrasion resistant synthetic rubber

Max. bending angle

10 degrees

Flange type

JIS 10K, (Also available : DIN, PN)

Marking

INTER



Max. bending angle without kinking		Bending angle with kinking (temporarily allowable)
No pressure	Under pressure	
10-15 degrees	10-20 degrees	45-60 degrees
Recommend Bending angle of 10 degrees to assure longer life.		

ID mm	L mm	WP 8 kg/cm ² (120 PSI)		WP 10 kg/cm ² (150 PSI)		WP 12 kg/cm ² (180 PSI)	
		OD mm	Product Code	OD mm	Product Code	OD mm	Product Code
508	1200	585	BM-2101F	589	BM-2108F	593	BM-2115F
560	1250	635	BM-2102F	642	BM-2109F	646	BM-2116F
610	1300	699	BM-2103F	703	BM-2110F	710	BM-2117F
660	1350	749	BM-2104F	756	BM-2111F	760	BM-2118F
685	1400	777	BM-2105F	781	BM-2112F	788	BM-2119F
710	1400	812	BM-2106F	816	BM-2113F	823	BM-2120F
760	1450	862	BM-2107F	869	BM-2113F	876	BM-2121F



Suction/Discharge Sleeve Hose with Built-in Flange

Applications

For suction and discharge of sand and abrasive slurry materials.
(dredging purpose)

Flange type

JIS 10K, (Also available : DIN, PN)



ID mm	L mm	WP -1 kg/cm ² (-15 PSI)	
		OD mm	Product Code
508	5000	589	BM-1001F
560	5000	643	BM-1002F
610	5000	693	BM-1003F
660	5000	755	BM-1004F
685	5000	815	BM-1005F
710	5000	840	BM-1006F
760	5000	890	BM-1007F

RAIL & ROAD TANKER HOSE



Applications	For loading and unloading oil from tank truck.
Tube	Oil resistant synthetic rubber
Reinforcement	High tensile synthetic fabric with steel helical embedded wire
Cover	High abrasion, weather and oil resistant synthetic rubber
Marking	INTER RT150 -- ROAD & RAIL TANKER HOSE -- BS 3492:1987 -- WP 150 PSI



BS 3492 : 1987



Nominal ID		ID	OD	WP		BP		L	Product code
Inch	mm	mm	mm	bar	PSI	bar	PSI	m	
1	25	25.4	36.0	10	150	30	450	40	BI-41001
1.1/4	32	32.0	43.0	10	150	30	450	40	BI-41002
1.3/8	35	35.0	48.0	10	150	30	450	40	BI-41003
1.1/2	38	38.0	51.0	10	150	30	450	40	BI-41004
1.3/4	44	44.5	58.0	10	150	30	450	40	BI-41005
2	51	50.8	65.0	10	150	30	450	40	BI-41006
2.1/2	63	63.5	77.0	10	150	30	450	40	BI-41007
3	76	76.2	91.0	10	150	30	450	40	BI-41008
4	101	101.6	120.0	10	150	30	450	40	BI-41009

OIL DELIVERY HOSE



Applications	For discharge of oil and some chemicals in refineries, factories and vessels.
Tube	Oil resistant synthetic rubber
Reinforcement	High tensile synthetic fabric
Cover	High abrasion and oil resistant synthetic rubber
Marking	INTER OD150 -- OIL DELIVERY HOSE -- WP 150 PSI



Nominal ID		ID	OD	WP		BP		L	Product code
Inch	mm	mm	mm	bar	PSI	bar	PSI	m	
1	25	25.4	35.0	10	150	30	450	40	BL-52001
1.1/4	32	32.0	42.0	10	150	30	450	40	BL-52002
1.3/8	35	35.0	45.0	10	150	30	450	40	BL-52003
1.1/2	38	38.0	48.0	10	150	30	450	40	BL-52004
1.3/4	44	44.5	55.0	10	150	30	450	40	BL-52005
2	51	50.8	62.0	10	150	30	450	40	BL-52006
2.1/2	63	63.5	75.0	10	150	30	450	40	BL-52007
3	76	76.2	88.0	10	150	30	450	40	BL-52008
4	102	101.6	116.0	10	150	30	450	40	BL-52009
5	127	127.0	143.0	10	150	30	450	40	BL-52010
6	152	152.4	168.0	10	150	30	450	40	BL-52011

OIL SUCTION & DISCHARGE HOSE 150 PSI

**Applications**

For suction and discharge of petroleum products, of up to 50% aromatic contents, in refineries, factories and vessels.

Tube

Oil resistant synthetic rubber

Reinforcement

High tensile synthetic fabric with steel helical embedded wire

Cover

High abrasion and oil resistant synthetic rubber

Marking

INTER OSD150 -- OIL SUCTION & DISCHARGE HOSE -- WP 150 PSI



Nominal ID		ID	OD	WP		BP		L	Product code
Inch	mm	mm	mm	bar	PSI	bar	PSI	m	
1	25	25.4	36.0	10	150	30	450	40	BI-51101
1.1/4	32	32.0	43.0	10	150	30	450	40	BI-51102
1.1/2	38	38.0	49.0	10	150	30	450	40	BI-51103
2	51	50.8	63.0	10	150	30	450	40	BI-51104
2.1/2	63	63.5	76.0	10	150	30	450	40	BI-51105
3	76	76.2	89.0	10	150	30	450	40	BI-51106
3.1/2	90	90.0	105.0	10	150	30	450	40	BI-51107
4	102	101.6	117.0	10	150	30	450	40	BI-51108
5	127	127.0	145.0	10	150	30	450	40	BI-51109
6	152	152.4	170.0	10	150	30	450	40	BI-51110

OIL SUCTION & DISCHARGE HOSE 250 PSI

**Applications**

For suction and discharge of petroleum products, of up to 50% aromatic contents, in refineries, factories and vessels.

Tube

Oil resistant synthetic rubber

Reinforcement

High tensile synthetic fabric with steel helical embedded wire

Cover

High abrasion and oil resistant synthetic rubber

Marking

INTER OSD250 -- OIL SUCTION & DISCHARGE HOSE -- WP 250 PSI



Nominal ID		ID	OD	WP		BP		L	Product code
Inch	mm	mm	mm	bar	PSI	bar	PSI	m	
1	25	25.4	37.0	17	250	51	750	40	BI-51211
1.1/4	32	32.0	44.0	17	250	51	750	40	BI-51212
1.1/2	38	38.0	51.0	17	250	51	750	40	BI-51213
2	51	50.8	65.0	17	250	51	750	40	BI-51214
2.1/2	63	63.5	79.0	17	250	51	750	40	BI-51215
3	76	76.2	92.0	17	250	51	750	40	BI-51216
3.1/2	90	90.0	107.0	17	250	51	750	40	BI-51217
4	102	101.6	118.0	17	250	51	750	40	BI-51218
5	127	127.0	148.0	17	250	51	750	40	BI-51219
6	152	152.4	175.5	17	250	51	750	40	BI-51220

MULTI-PURPOSE HOSE



Applications

A premium quality hose for multi-purpose applications.

Suitable for conveying air, water, fuel, oil and other common solvents.

Tube

Oil resistant synthetic rubber.

Reinforcement

High tensile synthetic textile filament yarn.

Cover

Oil and weather resistant synthetic rubber.

Marking

INTER MULTI-PURPOSE HOSE ID" (ID MM) WP 300 PSI



Nominal ID		ID	OD	WP		BP		L	Product code
Inch	mm	mm	mm	bar	PSI	bar	PSI	m	
1/4	6	6.3	13.5	20	300	60	900	100	AXXM06RSJ01
5/16	8	8.0	15.0	20	300	60	900	100	AXXM08RSJ01
3/8	9	9.5	17.5	20	300	60	900	100	AXXM09RSJ01
1/2	12	12.7	21.0	20	300	60	900	100	AXXM12RSJ01
5/8	16	16.0	24.0	20	300	60	900	100	AXXM16RSJ01
3/4	19	19.0	29.0	20	300	60	900	100	AXXM19RSJ01
1	25	25.4	36.0	20	300	50	750	100	AXXM25RSJ01

PETROL PUMP HOSE



Applications

For dispensing petrol.

Tube

Petrol resistant synthetic rubber

Reinforcement

High tensile synthetic textile filament yarn, with built-in conductive wire to provide electrical continuity

Cover

Petrol, ozone and weather resistant synthetic rubber

Marking

INTER PETROL PUMP HOSE ID MM



Nominal ID		ID	OD	WP		BP		L	Product code
Inch	mm	mm	mm	bar	PSI	bar	PSI	m	
5/8	16	16.0	26.0	10	150	40	600	60	AZNP16BSF01
3/4	19	19.0	32.0	10	150	40	600	60	AZNP19BSF01
1	25	25.4	38.0	10	150	40	600	30	AZNP25BSC01

FLEX HOSE

(Straight Ends Type)



Applications

For use as a connecting joint between two pipes, transferring air, water and other non-corrosive liquids.
(Specially designed for underground use)

Tube

Synthetic rubber

Reinforcement

High tensile synthetic fabric with steel helical embedded wire

Cover

Wear and weather resistant synthetic rubber

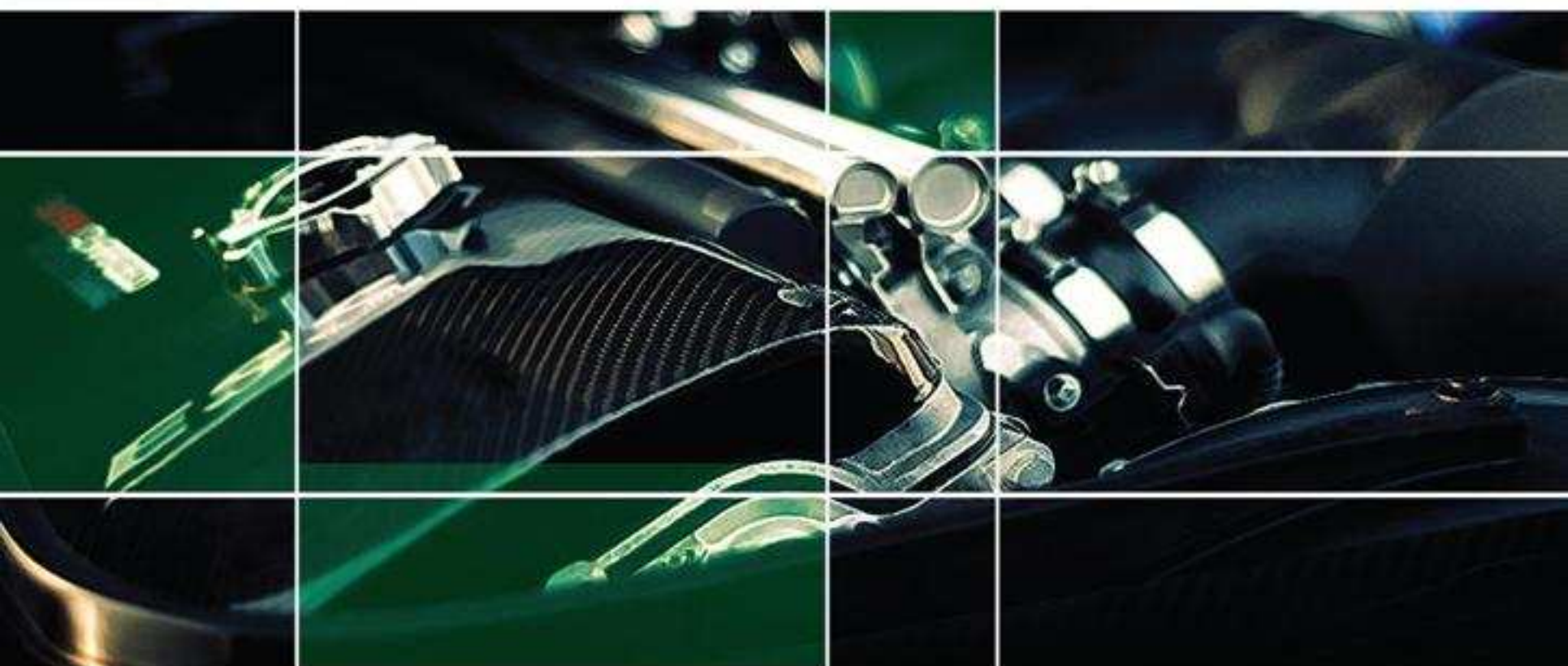
Marking

INTER



ID		OD	WP		BP		Product code			
Inch	mm	mm	bar	PSI	bar	PSI	L = 1'	L = 1.1/2'	L = 2'	L = 1 m
3/4	19.1	33.1	5	75	7.5	112.5	BF-1000N	BF-1500N	BF-2000N	BF-0100N
1	25.4	39.4	5	75	7.5	112.5	BF-1001N	BF-1501N	BF-2001N	BF-0101N
1.1/4	31.8	45.8	5	75	7.5	112.5	BF-1002N	BF-1502N	BF-2002N	BF-0102N
1.1/2	38.1	52.1	4	60	6	90	BF-1003N	BF-1503N	BF-2003N	BF-0103N
1.3/4	44.5	58.5	4	60	6	90	BF-1004N	BF-1504N	BF-2004N	BF-0104N
2	50.8	64.8	4	60	6	90	BF-1005N	BF-1505N	BF-2005N	BF-0105N
2.1/4	57.2	71.2	3	45	4.5	67.5	BF-1006N	BF-1506N	BF-2006N	BF-0106N
2.1/2	63.5	78.5	3	45	4.5	67.5	BF-1007N	BF-1507N	BF-2007N	BF-0107N
2.3/4	69.9	84.9	3	45	4.5	67.5	BF-1008N	BF-1508N	BF-2008N	BF-0108N
3	76.2	91.2	3	45	4.5	67.5	BF-1009N	BF-1509N	BF-2009N	BF-0109N
3.1/4	82.6	97.6	3	45	4.5	67.5	BF-1010N	BF-1510N	BF-2010N	BF-0110N
3.1/2	88.9	103.9	3	45	4.5	67.5	BF-1011N	BF-1511N	BF-2011N	BF-0111N
3.3/4	95.3	110.3	3	45	4.5	67.5	BF-1012N	BF-1512N	BF-2012N	BF-0112N
4	101.6	116.6	2	30	3	45	BF-1013N	BF-1513N	BF-2013N	BF-0113N
4.1/4	108.0	123.0	2	30	3	45	BF-1014N	BF-1514N	BF-2014N	BF-0114N
4.1/2	114.3	129.3	2	30	3	45	BF-1015N	BF-1515N	BF-2015N	BF-0115N
5	127.0	147.0	2	30	3	45	BF-1016N	BF-1516N	BF-2016N	BF-0116N
5.1/2	139.7	159.7	2	30	3	45	BF-1017N	BF-1517N	BF-2017N	BF-0117N
6	152.4	172.4	2	30	3	45	BF-1018N	BF-1518N	BF-2018N	BF-0118N
6.1/2	165.1	185.1	2	30	3	45	BF-1019N	BF-1519N	BF-2019N	BF-0119N

AUTOMOTIVE HOSE



AIR CONDITIONING HOSE



Applications

For conveying freon R-12 and R-134a in automotive air conditioning systems.

Tube

Oil and freon resistant synthetic rubber

Reinforcement

High tensile synthetic textile filament yarn

Cover

Oil, ozone and weather resistant synthetic rubber

Marking

INTER AIR CONDITIONING HOSE R-12 -ID MM- DIS

INTER AIR CONDITIONING HOSE NT TYPE -ID MM- DIS



SAE J51 A2



for R-12

Nominal ID		ID	OD	WP		BP		L	Product code
Inch	mm	mm	mm	bar	PSI	bar	PSI	m	
5/16	8	7.9	18.3	30	450	120	1,800	100	AZNR08BSJ01
13/32	10	10.6	22.3	30	450	120	1,800	100	AZNR10BSJ01
1/2	13	12.9	22.3	20	300	80	1,200	100	AZNR13BSJ01

SAE J2064 E1



NT type for R-134a

Nominal ID		ID	OD	WP		BP		L	Product code
Inch	mm	mm	mm	bar	PSI	bar	PSI	m	
5/16	8	8.2	15.7	30	450	120	1,800	100	AZNR08BSJ03
13/32	10	11.0	19.0	30	450	120	1,800	100	AZNR10BSJ03
5/8	15	15.2	23.0	15	225	60	900	100	AZNR15BSJ03

BRAKE HOSE



Applications

Air Brake Hose For use in automotive air brake system.

Tube

Vacuum Brake Hose For use in automotive vacuum brake system.

Reinforcement

Oil resistant synthetic rubber

Cover

High tensile synthetic textile filament yarn

Marking

Heat and ozone resistant synthetic rubber

INTER AIR BRAKE HOSE ID* SAE J1402 A WP 150 PSI

INTER VACUUM BRAKE HOSE ID* SAE J1403 L WP 150 PSI

SAE J1402



Air Brake Hose



Nominal ID		ID	OD	WP		BP		L	Product code
Inch	mm	mm	mm	bar	PSI	bar	PSI	m	
3/8	9	9.5	19.0	10	150	62	930	50	AXXE09BSE01
1/2	12	12.7	22.3	10	150	62	930	50	AXXE12BSE01

SAE J1403



Vacuum Brake Hose



Nominal ID		ID	OD	WP		BP		L	Product code
Inch	mm	mm	mm	bar	PSI	bar	PSI	m	
11/32	8	8.7	17.5	10	150	30	450	50	AXXV08BSE01
15/32	12	11.9	20.7	10	150	30	450	50	AXXV12BSE01

WINDSHIELD WASHER TUBING



Applications

For use in automotive windshield washing system.

Tube

Ozone and tear resistant synthetic rubber, resistant to windshield washer solution.

Marking

INTER WINDSHIELD WASHER TUBING ID MM SAE J1037

SAE J1037



Nominal ID		ID	OD	WP		BP		L	Product code
Inch	mm	mm	mm	bar	PSI	bar	PSI	m	
1/8	3	3.0	6.0	2	30	8	120	50	AZNC03BSE01
5/32	4	4.0	7.0	2	30	8	120	50	AZNC04BSE01
3/16	5	5.0	8.0	2	30	8	120	50	AZNC05BSE01
7/32	5.5	5.5	9.0	2	30	8	120	50	AZNC05BSE02
1/4	6	6.3	10.0	2	30	8	120	50	AZNC06BSE01

FUEL / OIL HOSE



Applications

For conveying fuel/oil in automotive lines and for general usage in contact with fuel/oil.

Tube

Fuel/oil resistant synthetic rubber

Reinforcement

High tensile synthetic textile filament yarn

Cover

Fuel/oil, ozone and weather resistant synthetic rubber

Marking

INTER FUEL/OIL HOSE SAE J30 R6 ID" WP 300 PSI



SAE J30 R6



"Not designed to be submerged in gasoline"

Nominal ID		ID	OD	WP		BP		L	Product code
Inch	mm	mm	mm	bar	PSI	bar	PSI	m	
1/8	3	3.2	10.0	20	300	60	900	50	AZNU03BSE01
5/32	4	4.0	11.0	20	300	60	900	50	AZNU04BSE01
3/16	5	5.0	12.0	20	300	60	900	50	AZNU05BSE01
1/4	6	6.3	13.3	20	300	60	900	50	AZNU06BSE01
5/16	8	8.0	15.0	20	300	60	900	50	AZNU08BSE01
3/8	9	9.5	16.5	20	300	60	900	50	AZNU09BSE01
7/16	11	11.1	18.4	20	300	60	900	50	AZNU11BSE01
1/2	12	12.7	20.0	20	300	60	900	50	AZNU12BSE01
5/8	16	16.0	24.0	20	300	60	900	50	AZNU16BSE01
3/4	19	19.0	29.0	20	300	60	900	50	AZNU19BSE01
1	25	25.4	36.0	20	300	50	750	50	AZNU25BSE01

FUEL / OIL HOSE (Gasohol E20/E85)



Applications

Most suitable for conveying **ethanol blended gasoline (E20/E85)** in combustion engines and for general usage in contact with fuel/oil.

Tube

Fuel/oil resistant synthetic rubber

Reinforcement

High tensile synthetic textile filament yarn

Cover

Fuel/oil, ozone and weather resistant synthetic rubber

Marking

INTER FUEL/OIL HOSE SAE J30 R7 ID" WP 300 PSI GASOHOL E20/E85



SAE J30 R7



"Not designed to be submerged in gasoline"

Nominal ID		ID	OD	WP		BP		L	Product code
Inch	mm	mm	mm	bar	PSI	bar	PSI	m	
1/8	3	3.2	10.0	20	300	60	900	25	AZNU03BSZ01
5/32	4	4.0	11.0	20	300	60	900	25	AZNU04BSZ01
3/16	5	5.0	12.0	20	300	60	900	25	AZNU05BSZ02
1/4	6	6.3	13.3	20	300	60	900	25	AZNU06BSZ03
5/16	8	8.0	15.0	20	300	60	900	25	AZNU08BSZ03
3/8	9	9.5	16.5	20	300	60	900	25	AZNU09BSZ03
7/16	11	11.1	18.4	20	300	60	900	25	AZNU11BSZ02
1/2	12	12.7	20.0	20	300	60	900	25	AZNU12BSZ02
5/8	16	16.0	24.0	20	300	60	900	25	AZNU16BSZ03
3/4	19	19.0	29.0	20	300	60	900	25	AZNU19BSZ01
1	25	25.4	36.0	20	300	50	750	25	AZNU25BSZ01

CAR HEATER HOSE



Applications

For use in connecting engine heater system in the coolant circulating system.

Tube

Glycol resistant synthetic rubber

Reinforcement

High tensile synthetic textile filament yarn

Cover

Oil and weather resistant synthetic rubber

Marking

INTER CAR HEATER HOSE ID" SAE J20 R3 D1 WP 75 PSI



SAE J20 R3 D1



Nominal ID		ID	OD	WP		BP		L	Product code
Inch	mm	mm	mm	bar	PSI	bar	PSI	m	
5/16	8	8.0	16.0	5	75	20	300	50	AZNH08BSE01
3/8	9	9.5	17.5	5	75	20	300	50	AZNH09BSE02
1/2	12	12.7	20.0	5	75	20	300	50	AZNH12BSE01
5/8	16	16.0	24.0	5	75	20	300	50	AZNH16BSE02
3/4	19	19.0	27.0	5	75	20	300	50	AZNH19BSE01
1	25	25.4	36.0	5	75	20	300	50	AZNH25BSE01

CNG / LPG HOSE



Applications

For conveying CNG (Compressed Natural Gas) or LPG (Liquefied Petroleum Gas) in automotive lines.

Tube

CNG/LPG resistant synthetic rubber

Reinforcement

High tensile synthetic textile filament yarn

Cover

Oil, ozone and weather resistant synthetic rubber

Marking

INTER CNG/LPG HOSE ECE R110 / ECE R67 CLASS 2 ID MM WP 300 PSI



ECE R110 / ECE R67 CLASS 2



Nominal ID		ID	OD	WP		BP		L	Product code
Inch	mm	mm	mm	bar	PSI	bar	PSI	m	
5/32	4	4.0	10.0	20	300	40	600	25	AZNL04BSZ01
3/16	5	5.0	11.0	20	300	40	600	25	AZNL05BSZ01
1/4	6	6.0	13.0	20	300	30	450	25	AZNL06BSZ01
5/16	8	8.0	15.0	20	300	60	900	25	AZNL08BSZ01
3/8	10	10.0	17.0	20	300	60	900	25	AZNL10BSZ01
7/16	11	11.0	18.0	20	300	60	900	25	AZNL11BSZ01
1/2	12	12.0	19.0	20	300	40	600	25	AZNL12BSZ01
5/8	16	16.0	24.0	20	300	60	900	25	AZNL16BSZ01
3/4	19	19.0	27.0	20	300	60	900	25	AZNL19BSZ01

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