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Training Manual



Mississauga

I.R.P. Industrial Rubber Ltd.
6300 Edwards Blvd., Unit 1
Mississauga, ON L5T 2V7

Phone: 905-670-5700
Fax: 905-670-3700
Toll Free: 800-387-9537
Email: sales@irprubber.com

Edmonton

I.R.P. Industrial Rubber Ltd.
5724 – 67th Ave. NW.
Edmonton, AB T6B 3P8

Phone: 780-485-1227
Fax: 780-485-1228
Email: saleswest@irprubber.com

Vancouver

I.R.P. Industrial Rubber Ltd.
1525 Broadway St., Unit 120
Port Coquitlam, BC V3C 6P6

Phone: 604-472-1200
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Toll Free: 877-527-1200
Email: saleswest@irprubber.com

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I.R.P. INDUSTRIAL RUBBER LTD.



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I.R.P. INDUSTRIAL RUBBER LTD.



COMPANY PROFILE

March 2013

I.R.P. Industrial Rubber Ltd. was established in 1950 by the Mallett family; who still owns and operates the business today. The company has evolved from a small end user distributor to an industry leading, nation wide wholesale distributor with locations in Mississauga, Edmonton, and Vancouver.

Our product groups consist of industrial hose, couplings, clamps, Flexaust ducting, sheet rubber, and matting.

We offer an array of value added services consisting of hose assemblies, pressure testing, Canadian Registration Numbers, internal and external swaging, crimping, rubber slitting, gasket cutting, and rubber fabrication.

IRP has been a registered ISO 9000 company since 1997 and is currently implementing a 5 S management structure to further our quality commitment to our distributors.

Our entire organization is focused on helping our customers meet the demands of today's industry, from maintaining large inventories, providing a high level of service, to helping with product selection. IRP prides itself on our ability to provide solutions for our distributors.



I.R.P. INDUSTRIAL RUBBER LTD.



IRP LOCATIONS

IRP Industrial Rubber Ltd. Maintains three warehouses in Canada. Our head office in Mississauga, Ontario services Eastern Canada and the United States, while Edmonton services the Prairie Provinces and Port Coquitlam services B.C. All of our facilities are located close to major highways allowing easy access for carriers, transports, as well as customers picking up.

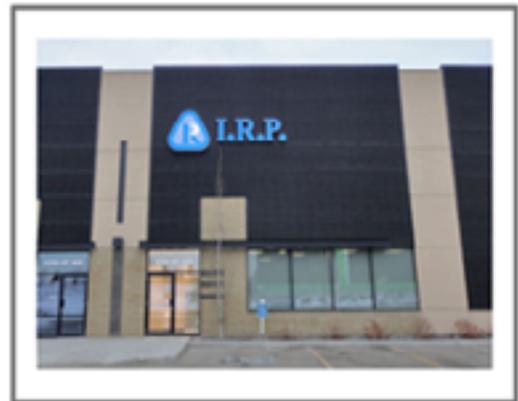
Mississauga Location Head Office and Main Warehouse



I.R.P. Industrial Rubber Ltd.
6300 Edwards Blvd., Unit 1
Mississauga, ON L5T 2V7

Phone: 905-670-5700
Fax: 905-670-3700
Watts: 800-387-9537
Email: sales@irprubber.com

Edmonton Location Warehouse and Office



I.R.P. Industrial Rubber Ltd.
5724 – 67th Ave. NW.
Edmonton, AB T6B 3P8

Phone: 780-485-1227
Fax: 780-485-1228
Email: saleswest@irprubber.com

Vancouver Location Warehouse and Office

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I.R.P. INDUSTRIAL RUBBER LTD.



Value Added Services

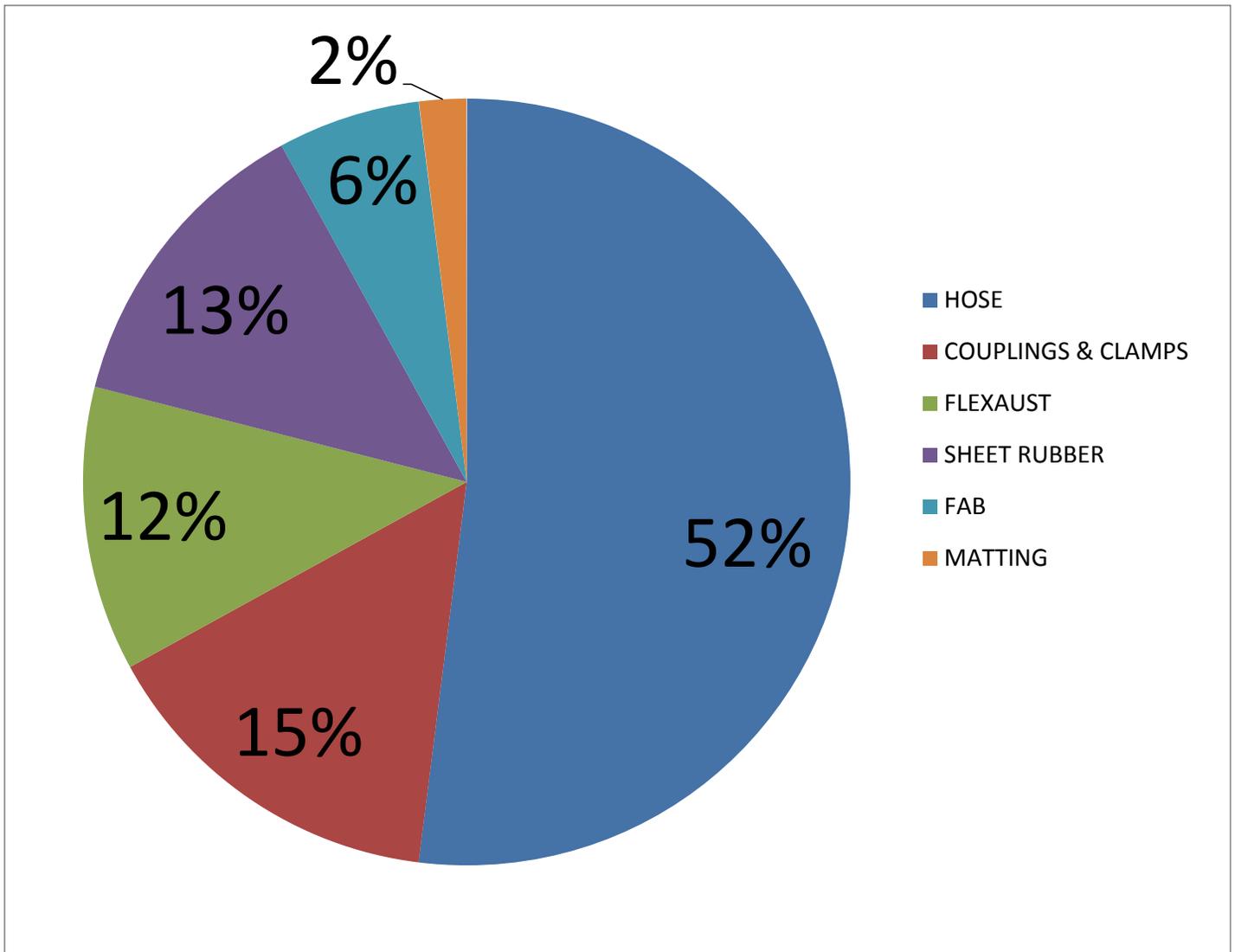
1. ISO 9001:2008 Registered and compliant
2. Warehouses - Edmonton, Vancouver and Mississauga - Nationwide coverage
3. 800 phone service at both locations
4. Inventory - consisting of hose, couplings, clamps, sheet rubber, and ducting
5. Canadian Registration Numbers if required on assemblies (TSSA)
6. Custom rubber fabrication facility - gaskets, roller recovery, etc.
7. Hydrostatic testing and certification
8. Orders may be accepted via phone, fax, or email
9. Customer part numbers may be used to simplify ordering
10. Listing of after hours personnel for emergency requirements
11. Experienced staff in all departments
12. Distributor sales staff training
13. Implementing "5 S" Management structure
14. Over 90% of orders are filled same day
15. Custom swaging up to 4" ID
16. Custom crimping up to 10" ID



I.R.P. INDUSTRIAL RUBBER LTD.



IRP SALES BY PRODUCT GROUP





I.R.P. INDUSTRIAL RUBBER LTD.



Industrial Hose





I.R.P. INDUSTRIAL RUBBER LTD.



S.T.A.M.P.E.D

How to Recommend a Hose:

(S)IZE:	SIZE. This consists of the I.D, length, and any O.D. constraints of the hose required for your specific needs. Overall length should be determined to include fittings. If any specific requirements are needed, tolerances need to be specified.
(T)EMPERATURE:	TEMPERATURE of the environment and material conveyed. Specify minimum and maximum temperatures for both the internal (media and friction) and external (ozone and sunlight) temperatures.
(A)PPPLICATION:	APPLICATION. This refers to how the hose is actually being used. Intermittent or continuous service, and indoor or outdoor use. If there are any external conditions - such as abrasion, oil (specify type), solvents (specify type), chemical (specify type and concentration), ozone and salt water. Consider the configuration/routing of the hose, if the hose is hanging or laying horizontally, if it's supported or unsupported, if there is anything else attached to the hose, or if any external load is on the hose. Consider any bend requirements, flexibility, and elongation needs with working pressure. If there is a current hose in use, specify the type of hose, service life being obtained thus far and description of failure or source of customer dissatisfaction.
(M)EDIA:	MEDIA/MATERIAL that is being transported including it's concentration. The selection of tube compound is critical and the materials chemical properties and it abrasive characteristics must be taken into account. Specify any agency requirements, media velocity, flow rate and any other specific requirements.
(P)RESSURE:	PRESSURE. The Maximum working pressure that the assembly will be exposed to including surges. You must consider spikes in pressure and vacuum considerations when selecting your hose. Keep in mind the correspondence between pressure and temperature because a hose is not generally designed to be used at both the maximum working pressure and maximum temperature rating.
(E)NDS:	ENDS. The type and style of end connections including the orientation and attachment methods of the fittings required. Specify end styles, material, dimensions and any conductivity requirements.
(D)ELIVERY:	DELIVERY. The method of delivery and when delivery is expected including any testing requirements or any certification requirements. As well as any special packing, shipping and/or delivery requirements.



General Characteristics of Hose Compounds

TYPE	TEMP RANGE (°F)	GENERAL PROPERTIES
SBR	-50 / +180	<ul style="list-style-type: none"> -Low cost -Non oil resistant -Poor chemical resistance -Good abrasion and impact resistance
NEOPRENE	-50 / +200	<ul style="list-style-type: none"> -Fair resistance to oils, fats, grease, chemicals, and solvents -Low compression set -Good weather and ozone resistance
NITRILE (BUNA-N)	-40 / +200	<ul style="list-style-type: none"> -Good oil and gas resistance -Moderate ozone resistance
EPDM	-20 / +300 (Excluding multi-purpose EPDM)	<ul style="list-style-type: none"> -Excellent for ozone and weather aging -For use in steam and heat applications -Not for use with oils
HYPALON	-30 / +225	<ul style="list-style-type: none"> -Good flame resistance -Excellent resistance to alkalis and acids -Low oil and solvent resistance
PURE GUM	-20 / +180	<ul style="list-style-type: none"> -Excellent abrasion properties and high tensile -Excellent compression set -Not suitable for oils or solvents
PVC	+20 / +160	<ul style="list-style-type: none"> -Low cost -Moderate abrasion and chemical resistance
POLYURETHANE	-4 / +180	<ul style="list-style-type: none"> -Excellent abrasion resistance -Good ozone resistance



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Industrial Hose - Mandrel Made

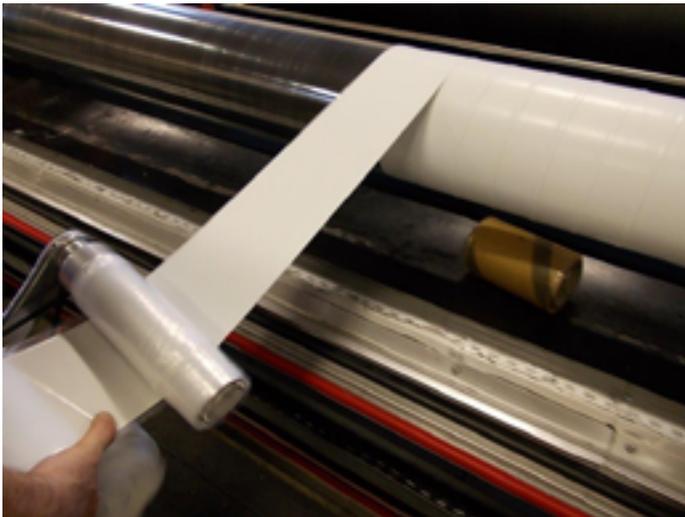
MANDREL MADE

Maximum I.D. 42"

Maximum length 100'

Identification - wrapped finish

Custom hoses manufactured in small production runs





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Examples of Mandrel Made Hose





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Industrial Hose - Extruded

EXTRUDED

Long Lengths Available

Lower Cost

Maximum I.D. 2" (Exceptions: Contraflex Discharge hose up to 8", PVC Layflat up to 10" ID)

Identification - Smooth Finish

Custom hoses manufactured in large production runs





I.R.P. INDUSTRIAL RUBBER LTD.



Examples of Extruded Hose





Oil Sands

Low Temp Tank Truck

This is an all purpose petroleum suction and discharge hose designed to remain flexible in low temperature conditions. The corrugated cover makes the hose very flexible and it is also suitable for full vacuum service. Sizes available 1" to 4" ID



Tank Truck Hose

An all purpose suction & discharge hose for gasoline, distillate, kerosene, diesel, oil suspensions and emulsions, and hydraulic return line. Suitable for full vacuum. Maximum aromatic content 50%. Sizes available 3/4" to 6" ID.



Flow Maxx Rubber Discharge & Suction Hose

A heavy duty EPDM rubber hose for construction, quarries, dewatering, and general use. Sizes available 1 1/2" to 12" ID.



EPDM Water Suction

Lightweight and flexible with abrasion resistant cover for agricultural chemicals and general municipal and industrial use. Suitable for full vacuum. Sizes 1-1/2" to 6".



Wire Braid Steam Hose 250 PSI

Bulk or assemblies with High Pressure ground joint Dixon couplings. Sizes available: 1/2" ID to 2" ID

Contraflex

A premium hose designed for discharging water and oil contaminated water at high pressures. An excellent portable pump hose. (Suitable for handling petroleum products with an aromatic content under 30%) Sizes 1-1/2" to 10"



Custom Hose

Custom Hoses can be ordered with a variety of end fittings.



I.R.P. INDUSTRIAL RUBBER LTD.



Aggregate



Skirtboard Rubber

Skirtboard is commonly used as skirting on conveyor belt systems. SBR is the most common and most economical. Our new "DuraRed" has proven to be a great product by lasting longer and cutting down on maintenance time. We will cut to size. Standard lengths are 50 ft rolls by 4", 5", 6", 8", and 10" wide, 1/2" thick is the most common.

Pully Lagging

Weld on pulley lagging is available for onsite repairs or in house pulley recovering.



Air Hoses for Compressors

For heavy duty air supply, we recommend our yellow cover air hoses in 300 or 400 PSI. These hoses are available in assemblies from stock for quick shipment. Sizes from 1/2" ID to 4" ID.

Quarry Dewatering

We offer a wide variety of suction and discharge hoses. Layflat hoses are standard in blue and brown PVC and a black nitrile/PVC rubber. For suction lines we also carry PVC, rubber and EPDM. We will cut and couple to your needs.





I.R.P. INDUSTRIAL RUBBER LTD.



Agriculture / Irrigation

Discharge Hose available assemblies in:



Light Duty - Blue PVC
1-1/2" ID to 10" ID.



Medium Duty - Brown PVC
1-1/2" ID to 8" ID.



Heavy Contraflex Duty -
Black/Nitrile PVC. 1-1/2" ID to 8" ID.



Cam Type Couplers

Available in aluminum, stainless steel,
brass, and poly. 1/2" to 8".



Industrial Mill Discharge Hose

Assemblies available with instantaneous
brass, aluminum or standard fire hose
couplings. 1/2" ID to 2" ID.



Brass Full Port Ball Valve

1/4" to 4"
With or without locking handle



Stainless Steel Full Port Ball Valve

1/4" to 2"
With or without locking handle



FDA Approved, NSF51.
1/4" ID to 2" ID.

Kanaline SR Suction Hose
3" ID to 12" ID.



EPDM Multi-Purpose Hose



Used for air, water, and agricultural
chemicals. 1/4" ID to 1" ID.



Heavy Duty T-Bolt Clamp

Available in Carbon and Stainless Steel



Tridon Gear Clamp

Available in Stainless Steel, Shielded,
and quick release.



I.R.P. INDUSTRIAL RUBBER LTD.



Automotive Manufacturing



Push on Hose

Available in six colours for colour coding air and water lines in plant. The nitrile rubber construction makes this hose oil resistant. Push on fittings are used for easy coupling. Available in 1/4", 3/8", and 1/2" ID. MSHA available in black.

Challenger Multi Purpose Air Hose

This economically priced hose is ideal for supplying air to production tools. Sizes available 1/4" to 1" ID.



Self Storing

Two styles are available., nylon and polyurethane. Nylon is used in less demanding applications while polyurethane is a long lasting solution in active environments. Both hoses will stretch and then snap back out of the way of the operator. Sizes available 1/4" to 1/2" ID.



Flexaust Ducting

Manufacturing facilities that create many uses for ducting hose such as exhausting welding fumes, air transfer, etc. Three popular products are T7, CW-GP, and Flx-thane.



Sizes 2" to 24"
T7



Sizes 2" to 24"
Flx-Thane



Sizes 1" to 24"
CW-GP



Automotive Transit



Garage Exhaust Hose and Accessories

A complete line of garage exhaust hose and accessories are available from 2" ID to 6" ID.



Silicone and Nomex Ducting

Used for venting diesel exhaust for bus and truck repairs.

1" ID to 6" ID



3" ID to 12" ID

Silicone Heater and Coolant Replacement Hose



1/4" ID to 1" ID



7/8" ID to 4" ID



Tridon Gear Clamps

Available in Stainless Steel, Shielded, and quick release.

EPDM Heater Hose

For replacing heater hose where silicone is not required. 1/2" ID to 1" ID available.



Challenger Multi Purpose Air Hose

This economically priced hose is ideal for supplying air to production tools. Sizes available 1/4" to 1" ID.

Urethane Self Storing Air Hose

Non-marking for shop air. Available in 1/4" ID and 3/8" ID.





I.R.P. INDUSTRIAL RUBBER LTD.



Bulk Railcar/Pneumatic Tanker Truck

Directional Flow Metal Hoses

These smooth bore lines can be made into assemblies with standard or swivel camlock, flanged, or NPT ends. The swivel standard camlock, flanged, or basic male NPT ends to a length of your choice. Swivel camlock fittings increase the hose life by reducing twisting. Sizes available 1-1/2" to 16".



Tan Bulk Maxx hose is a reliable gum rubber abrasion resistant hose also suited for bulk transfer. Sizes available 1-1/2" to 4".

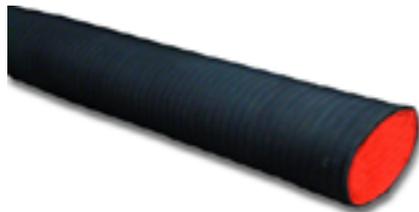


Hose Tec HTSS5180



Hot Air Blower Hose for pneumatic conveying. Sizes available 3" and 4".

Cam Type Couplers



The Wear MAXX is an extremely abrasion resistant hose designed for conveying wood, metal, rock, concrete, dust, etc. under vacuum. Corrugated for excellent flexibility.



Tigerflex Plas-T-Flo and 2020 Series Hoses

Ideal for dry bulk unloading. Flexible urethane construction for low temperature flexibility, lightweight, and clear so you can see the flow. Also reduces the noise commonly associated with metal hoses.



Series 2020 for food grade applications. Sizes available from 3" ID to 6" ID.



Series PF for non food grade applications. Sizes available from 3" ID to 6" ID.



I.R.P. INDUSTRIAL RUBBER LTD.



Chemical and Petroleum



Ultra Chem Hose

This extremely flexible premium quality hose is capable of transferring 98% of all common industrial chemicals. The tube is UHMW polyethylene.

(Please note: Ask the ultimate user for MSDS documentation before specifying a hose.) Sizes available 1" to 3".

All Chemical

A more economically priced chemical transfer hose capable of resisting 85% of common industrial chemicals. The tube is cross linked polyethylene (XLPE).

(Please note: Ask the ultimate user for MSDS documentation before specifying a hose.) Sizes available 3/4" to 4".



Tank Truck Hose

An all purpose suction & discharge hose for gasoline, distillate, kerosene, diesel, oil suspensions and emulsions, and hydraulic return line. Suitable for full vacuum. Maximum aromatic content 50%. Sizes available 3/4" to 6" ID.

Oil Delivery (Discharge)

For conveying oil, gasoline, fuel oil, and other petroleum derived products. This hose is non-conductive. Sizes available 1/4" ID to 2" ID.



Wire Reinforced Steam Hose

An extremely flexible hose for use with steam at temperatures up to 406°F. Not suitable for superheated steam. CRN Registered with High Pressure couplings. Sizes available 1/2" ID to 2" ID.

Low Temp Tank Truck

This is an all purpose petroleum suction and discharge hose designed to remain flexible in low temperature conditions. The corrugated cover makes the hose very flexible and it is also suitable for full vacuum service.





I.R.P. INDUSTRIAL RUBBER LTD.



Food Processing

Rubber Food Grade Suction and Discharge Hose

These hoses have FDA tube compounds and are used for handling liquid food products including fats and oils without impugning taste, odour, or smell. Standard sizes 1" to 4" and temperatures from -31°F to 200°F. Internal swaging available.



PVC Milk Hose

This hose is designed to handle milk in all applications from pick up to processing plant. Meets FDA and 3A requirements. Sizes available 1-1/2" to 2".



PVC Clear Food Grade Suction Hose



PVC Clear Food Grade Discharge Hose

This hose is made for NSF-51 and NSF-61 certified material. Used for transferring air, drinking water, food products, and mild chemicals. Sizes available 3/16" to 2" ID.

Stainless Steel Swaging Components





I.R.P. INDUSTRIAL RUBBER LTD.



Marine



Fish Suction Hose

Two types available, both hoses work extremely well in fish suction applications.

Rubber Fish Suction available on special order.



Spiral Clamps for Fish Suction Hose



Kanaflex EPDM

3/4" ID to 6" ID

Suction Hose

Suction hose assemblies for water transfer as well as holding tank evacuation.



Kuritec BW Low temp

1-1/2" ID to 6" ID



Kuritec Type K

3/4" ID to 6" ID



7/8" ID to 6" ID

Suction Hose

Softwall and Hardwall Marine Exhaust hose for wet exhaust applications.



1/2" ID to 6" ID



Cam Type Couplers

Available in aluminum, stainless steel, brass, and poly.

1/2" to 8"



Polyair

Polyair hose for air and water transfer.

1/4" to 1" ID



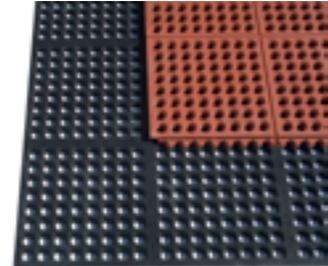
I.R.P. INDUSTRIAL RUBBER LTD.



Matting

Rubber Hex Mats

This matting is design specifically to give relief from ankle, knee, hip, and back pain. Great for work stations and areas where people are standing for long periods of time. This mat comes with built in connector strip, other connector strips and safety edges are available to allow a wide variety of configurations. Size 3ft x 3ft. Available in Black SBR RUBber and Red Nitrile Rubber (Grease Reistant)

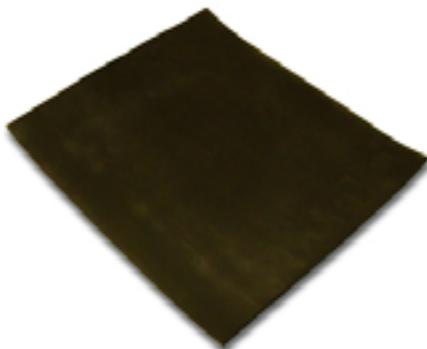


Long Length Anti-Fatigue Runner Matting

Standard matting comes with a 1/8" thick rubber on vinyl top, the most common profiles are wide and fine rib. 1/4" thick sponge is bonded to the underside to create a premium anti-fatigue mat. Available in standard widths of 24", 36", and 48" and lengths up to 75 feet. Custom mats available on request.

Wide Rib and Fine Rib Runner Matting

A low cost industrial and commercial safety floor mat available in standard 24", 36", and 48" widths. Specifically compounded for outstanding wear resistance and durability for both indoor and outdoor environments. Lengths up to 75 ft. and custom cutting available on request.



Sandwich Mats

A premium quality anti-fatigue mat. This product has a diamond top PVC cover with high rebound sponge and a vinyl backing. The edges are heat sealed so that no contaminants can affect the sponge and this process also tapers the edges to help avoid tripping.



Mining

Heavy Duty Air Hose

For tough underground applications. Sizes available from 1/2" ID to 4" ID. Pressures from 300 PSI to 1000 PSI depending on the inside diameter.



Light Duty - Blue PVC
1-1/2" ID to 10" ID.



Medium Duty - Brown PVC
1-1/2" ID to 8" ID.



Heavy Contraflex Duty - Black/Nitrile PVC.
1-1/2" ID to 8" ID.

Mining Stems and Nuts



Corrugated Material Conducting Hose

For transferring abrasive media in rugged applications. External split flanges allow full flow through the hose as well as easy alignment when installing.



Material Handling Hose - Wear MAXX

The Wear MAXX is an extremely abrasion resistant hose designed for conveying wood, metal, rock, concrete, dust, etc. under vacuum. Corrugated for excellent flexibility.



180AR

A lightweight extremely flexible hose used for abrasive material transfer.



Brass Full Port Ball Valve

1"4 to 4" with locking handle or without.



Stainless Steel Full Port Ball Valve

1"4 to 2" with locking handle or without.



Driller's Hose

1" hose assemblies complete with either universal or long shank brass couplings. Comes in standard 100' lengths; other lengths available if required. We inventory three styles to suit all applications





Municipal - Transit, Parks, and Rec



Challenger Multi Purpose Air Hose

This economically priced hose is ideal for supplying air to production tools. Sizes available 1/4" to 1" ID.

Silicone Flexaust Hose

Flexaust silicone exhaust hoses for high temperature diesel or gasoline fume extraction systems. Available in various forms depending on installation i.e. drops from a ceiling system or, on the ground (also available with protective coating on the metal wear strip to protect paint finish on vehicles), or even on mounted storage reels.



Silicone Heater and Coolant Hose

Complete size range of SAE, high temperature heater and coolant hoses for routine engine maintenance.

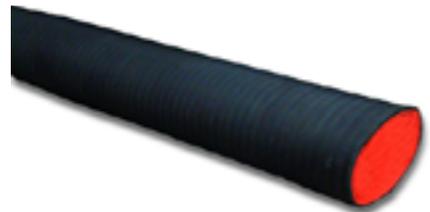


Sizes available 7/8" - 4"

Sizes available 1/4" - 1"

Material Handling Hose

The Wear MAXX is an extremely abrasion resistant hose designed for conveying wood, metal, rock, concrete, dust, etc. under vacuum. Corrugated for excellent flexibility.



Leaf Collector Hose

Ducting hose for leaf collectors and mobile industrial vacuum units. Sizes available 2" to 24".

Street Sweeper Hose

Corrugated street sweeper hoses for underside vacuum unit with cuffed ends.



180AR

A lightweight extremely flexible hose used for abrasive material transfer.



Municipal Water and Sewage

Water Discharge



Blue Layflat

A light weight duty hose for portable pump and irrigation use. Hose folds flat for ease of coiling & handling. Designed for open end discharge. Sizes 1-1/2" to 10".

Brown Layflat

This hose is a more rugged version of our blue PVC layflat hose, designed for use where higher working pressures are required. Designed for open end discharge. Sizes 1-1/2" to 8".



Contraflex

A premium hose designed for discharging water and oil contaminated water at high pressures. An excellent portable pump hose. (Suitable for handling petroleum products with an aromatic content under 30%) Sizes 1-1/2" to 10"

Contractors Rubber Discharge

Heavy duty rubber discharge hose with abrasion resistant cover. For use around rugged terrain. Sizes 1-1/2" to 10".



Industrial Mill Discharge

A very economical pump discharge and washdown hose. Not approved for fire fighting service. Sizes 1-1/2" and 2-1/2" ID.



Cam Type Couplers



I.R.P. INDUSTRIAL RUBBER LTD.



Municipal Water and Sewage

Water Suction



Heavy Duty PVC Green Helix

For construction pumps, septic tank & marine pump out service, water treatment and sewage plants. PVC is resistant to some chemicals, acids & alkalis. Suitable for full vacuum. Sizes 1-1/2" to 6".

EPDM Water Suction

Lightweight and flexible with abrasion resistant cover for agricultural chemicals and general municipal and industrial use. Suitable for full vacuum. Sizes 1-1/2" to 6".



Heavy Duty Rubber Water Suction

A heavy duty rubber suction hose for construction, digesters, and areas where a rugged hose is required. Sizes 1-1/2" to 10".

Low Temp PVC Suction

A premium quality PVC suction hose that will remain flexible in cold temperatures. Sizes 1-1/2" to 6".



Basket Strainer



Sizes 1-1/2" to 6".

Foot Valve & Strainer



Sizes 1-1/2" to 6".



Pharmaceutical Industry

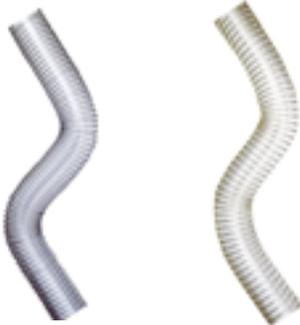


Capsule Transfer Hose

Our CFS with static wire or our CF are clear corrugated PVC hoses. Both are excellent for transferring granules or capsules. Their smooth bore helps prevent product damage. The static copper wire prevents electrical build up and shock. Sizes available 1-1/2" to 6", including some metric. They are FDA approved hoses with an NSF 51 rating and is 3A compliant.

FDA Approved Air and Water Lines

Clear braided PVC hose, can be used for many applications. It is great for air line, water line, or light chemicals. It is FDA approved with an NSF 51 rating.



Ducting for Transfer of Powders

Our ducting product line is manufactured by Flexaust, a leading manufacturer of ducting hose. They have many styles of ducting made for your industry to convey powders and exhaust fumes. Choices available in PVC, Urethane or white thermoplastic. Some products are manufactured with FDA acceptable materials. Smooth bores available to lessen friction loss. Sizes available 2" to 24".

Peroxied and Platinum Cured Silicone Hoses

This hose is designed for high heat applications. A variety of sizes and lengths are available. A variety of crimp and swage on fittings are available.



Cam Type Couplers



Swaging Components



Plastic Injection Molding

Pellet Transfer Hose

IRP's CFS with static wire is a clear corrugated PVC hose. It's excellent for the transfer of plastic pellets. Static wire prevents electrical build up and shock. Very good abrasion resistance. Many sizes available including metric. For better abrasion resistance where needed, try our urethane lined hose 2020. Sizes 1-1/2" to 6" and 45mm and 57mm available.



Pellet Drying Ducting Hose

Flexaust silicone ducting hose. Sizes 2" to 12" available from stock. It comes in either one or two ply and is rated for 550°F.

Flexaust CW 325

A 325°F max temperature ducting hose used to exhaust hot air from the pellet dryers. More economical than silicone where the temperatures are lower. Available in 1-1/2" up to 16".



Push On Hose

Available in six colours for colour coding air and water lines inplant. The nitrile rubber construction makes this hose oil resistant. Push on fittings are used for easy coupling. Available in 1/4", 3/8", and 1/2" ID. MSHA available in black.

Cam Type Couplers



Gear Clamps



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Pulp and Papermill



Papermill Washdown Hose
With tapered nozzle for washdown service.
Sizes available: 3/4" ID to 1" ID

Wire Braid Steam Hose 250 PSI
Bulk or assemblies with High Pressure ground joint Dixon couplings.
Sizes available: 1/2" ID to 2" ID



Hot Water Wash Up Hose
For general washdown use. Temperature to 200°F. Sizes available: 1/2" ID to 3/4" ID

Mill Discharge Hose
A lightweight layflat washup hose that is available with fire hose couplings attached.



Sheet Rubber
Red sheet packing, Neoprene, SBR, EPDM, Nitrile, White nitrile, Viton. Other polymers also available.
Ranging in thickness from 1/32" to 2".

Custom Hoses
Custom Hoses can be ordered with a variety of end fittings.



Chemical Transfer Hose
Internal and external swaging available.



1" ID to 3" ID



3/4" ID to 4" ID



Vacuum Trucks



Polar Maxx Low Temp Tank Truck

This is an all purpose petroleum suction and discharge hose designed to remain flexible in low temperature conditions. The corrugated cover makes the hose very flexible and it is also suitable for full vacuum service.

Tank Truck for Oils and Fuels

An all purpose suction & discharge hose for gasoline, distillate, kerosene, diesel, oil suspensions and emulsions, and hydraulic return line. Suitable for full vacuum. Maximum aromatic content 50%. Sizes available 3/4" to 6".



Kanaflex EPDM Water Suction - Industry Standard

This is the most commonly used for septic and water hauling. It is flexible, lightweight and durable. Sizes available 1" to 6".

Kanaflex 180 AR

Great for applications where abrasion resistance is needed. Its corrugated cover gives this hose good flexibility. Good for vacuuming up sand, debris, stones, etc. Sizes available 1-1/2" to 8".



Low Temp PVC Hose

Finally a PVC hose that is easy to use and will stay flexible in the cold. Tigerflex BW is lighter than rubber hoses and stays flexible all year round. Sizes available 1-1/2" to 6".

Wear Maxx Material Handling Hose

is an extremely abrasion resistant hose designed for conveying wood, metal, rock, concrete, dust, etc. under vacuum. Corrugated for excellent flexibility.



Bush Hog Couplings

These vacuum couplings are used in agriculture, dewatering, transition and industrial applications.



Irrigation Couplings

These couplings can be used to transfer water, sludge, and other waste products. The ball and socket design allows the coupling to be misaligned while still make a positive connection.



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Woodworking and Cabinet Industry

Flexadux R4

A flexible PVC ducting hose for light duty woodworking applications. Available in diameters from 2" to 12". Standard lengths 10, 25, and 50 ft.

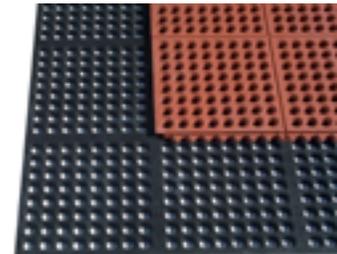


Flexthane MD

The industry standard for dust and wood particle removal. Flexthane MD is lightweight, flexible, and extremely abrasion resistant due to the polyurethane construction. Available in diameters from 2" x 24" (stocked in 2" to 12") and lengths of 25 and 50 ft. Black or clear.

Anti Fatigue Mats

Great for cutting down on backaches and fatigue. This 5/8" rubber anti fatigue mat is 3 ft. x 3 ft. and has a connector strip built in to expand if desired. Yellow bevelled safety edges can also be attached.



Challenger Multi Purpose Air Hose

This economically priced hose is ideal for supplying air to production tools. Sizes available 1/4" to 1" ID.

Self Storing Air Hose

Two styles are available, nylon and polyurethane. Nylon is used in less demanding applications while polyurethane is a long lasting solution in active environments. Both hoses will stretch and then snap back out of the way of the operator. Sizes available 1/4" to 1/2" ID.



Gear Clamps





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Troubleshooting



Kinked Hose



Crushed PVC Helix



External Damage



Crushed Rubber Suction Hose



Failure due to Kinking at Fitting



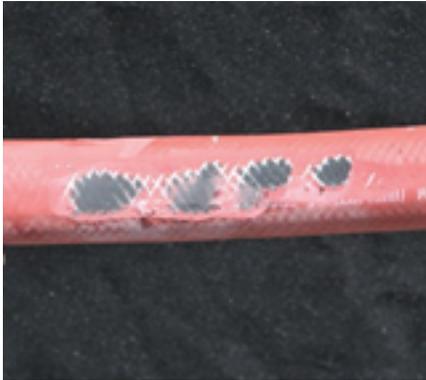
Ozone Damage



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Troubleshooting Continued



Exterior Abrasion



Oil Attacking Cover



Damaged Fitting



Oil Swell



Not Chemically Compatible



Pressure Burst



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COUPLINGS & CLAMPS



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Couplings



Part A



Part B



Part C



Part D



Part E



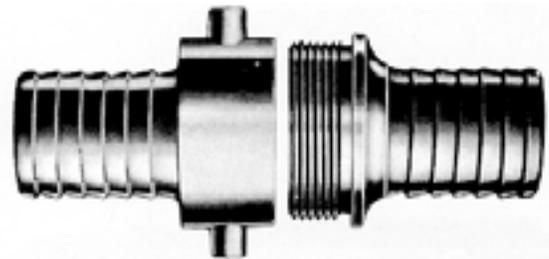
Part F



Part DC



Part DP



Short Shank - Female

Short Shank - Male



Mender



Combination Nipple with Vicatolic Groove



Combination Nipple - NPT Plain, Plated, Stainless Steel



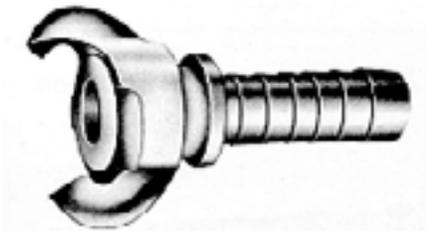
Dixon series male pipe thread with locking sleeve



Dixon series hose end with locking sleeve



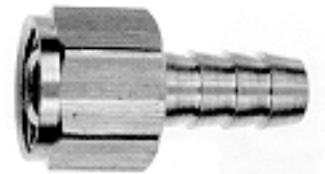
Couplings Continued (2)



Universal Quick Acting Hose end



Mining Hose Stem



Ground Joint Male Stem



Universal Quick Acting Female end



Ground Joint Male Stem



Universal Quick Acting Male end



P1 Tool



PB-001 Branding Tool



Oetiker Z Ear Clamp



Performed Clamp
Galvanized, Stainless Steel



Tbolt Clamp



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Couplings Continued (3)



Open End Clamp Galvanized, Stainless Steel



1098 Standard Straight Jaw Pincers



P38 Centre Punch Locking Tool



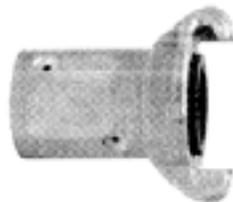
Double Bolt Clamp



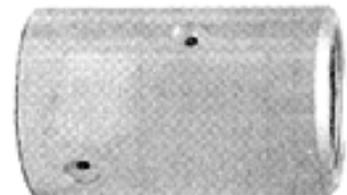
1099 Side Jaw Pincers



Brass 600 WOG Ball Valve Brass, Brass - CSA, Stainless Steel



Sandblast Coupling - Alum



Nozzle Holder Coupling



Safety Cable



Basket Strainer



Foot Valve Strainer



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Fitting Methods



High Pressure Clamp



Gear Clamp



Preformed Clamps



Internal Swage



Brass Ferrule



Push-on Fitting



Oetiker Clamp



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Fitting Methods (2)



T-Bolt Clamp



Preformed Clamp



Spiral Clamp



Preformed Clamp



Crimp Ferrule



Sandblast Coupling



Double Bolt Clamp



Band and Buckle



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Crimping & Swaging

A FP170UC Finn-Power Crimper

Crimping



- 360 Degree uniform seal
- Better coupling retention at higher pressures
- No protruding metal clamps

Swaging

IRP also swages using our Dixon Bayco 50 Ton Ram. Internal up to 4" ID and external up to 6" ID.



Testing



IRP offers proof and burst testing, and has many **Canadian Registration Numbers** for a wide variety of hose assemblies and applications.



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Flexaust Hose & Ducting

FLEXAUST®



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Flexaust Applications

Application	Type	Colour	Elastomer	Additional Information	Temp
AIR Movement	FSP-5	Yellow/Black W.S.	PVC	1 Ply Polyester Reinforcement Wide Pitch with 10-1 Ratio, UL 94V-0	-20 to 180 F
AIR/FUME	CW-GP	Black	NEOPRENE	2 Ply, Available in Metric sizes	-40 to 250 F
AIR/FUME	CWS	Black	NEOPRENE	Extremely Flexible, Lightweight	-40 to 250 F
AIR/FUME	CW-325	Black	Acrylic	1 Ply, Available with Wearstrip, UL 94V-0, High Temp	-20 to 325 F
AIR/FUME	GS	Red	Silicone	2 Ply, Fibreglass Reinforced, Non-Kinking, High Temp	-65 to 550 F
AIR/FUME	BDS	Red	Silicone	1 Ply, Fibreglass Reinforced, Non-Kinking, High Temp	-65 to 500 F
AIR/FUME	FSP-1	Black/Orange W.S.	PVC	1 Ply, Polyester Reinforced, UL 94V-0, Available in Metric sizes	-20 to 180 F
AIR/FUME	Flex-Lok 1050	Red	Fibreglass	2 Ply, Outer Metal Wearstrip, High Temp	-65 to 1050 F
AIR/FUME/DUST	Flexthane Light Duty	Clear or Black	Polyurethane	Light Duty, Highly Abrasion Resistant	-65 to 225 F
AIR/FUME/DUST	Flex-Tube PV	Clear/Black W.S.	PVC/PVC HELIX	Medium Weight, Economical, Smooth Bore, OEM Colors/Lengths	20 to 160 F
DUST/ MATERIAL	CW-GP	Black	NEOPRENE	2 Ply, Available in Metric sizes	-40 to 250 F
DUST/MATERIAL	T-7	Black	TPR	Thermoplastic Rubber General Purpose	-60 to 275 F
DUST/MATERIAL	T-7W	Black/Yellow W.S.	TPR	Thermoplastic Rubber General Purpose	-60 to 275 F
DUST/MATERIAL	Flex-Stat	Clear/Wearstrip	Polyurethane	Static Dissipative, FDA Acceptable Materials	-40 to 200 F
MATERIAL	Flexthane Medium Duty	Clear or Black	Polyurethane	Medium Duty, Highly Abrasion Resistant	-65 to 225 F
MATERIAL	Flexthane Heavy Duty	Clear or Black	Polyurethane	Heavy Duty, Highly Abrasion Resistant	-65 to 225 F
MATERIAL	FLEX-TUBE PU	Clear/Yellow Helix	Polyurethane	Medium Duty, Rigid Helix, Highly Abrasion Resistant	-0 to 200 F
VACUUM -SMALL ID	Blue STM	Blue/White Cuffs	Polyethylene	Vacuum, I-Helix Construction, Flexible, Durable, Cuffs Included	-40 to 160 F
VACUUM -SMALL ID	DPZ	Black or Grey	Polyethylene copolymer, Vacuum Hose Lightweight and Flexible, Cuffs Available		-40 to 140 F
VACUUM -SMALL ID	Tiger Tail	Yellow / Black	Polyethylene copolymer, Vacuum, Rugged, Durable, Welded on Cuffs		-40 to 140 F
VACUUM -SMALL ID	GPE	Black	Polyethylene	Vacuum, Economic, Flexible and Lightweight	-40 to 140 F

Air	Fume	Dust	Materials (light weight materials handling)
Heating or Cooling	Laboratory	Filtering	Shavings
Drying	Industrial	Movement	Chips
Dehumidifying	Automotive	Exhaust	Powders
Cleaning	Painting	Duct Cleaning	Debris
Dust Covers	Welding	Textile Fiber Collection	Leaf Collection
Supply	Soldering	Vacuum Cleaning	Street Sweeping
Connectors	Plating	Lint Collection	Lawn Vacuum
Air Filter Intakes		Loading (containment)	Slurries
		Cutting	Sawdust Collection
		Grinding	Drains
			Packing Popcorn



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Commonly Purchased Flexaust Hose & Ducting

Market	Application	Key Points	Suggested Products
Air / Blowers	Air Movement in Confined area		FSP-5,CWS,Flx-ThaneLD
Agricultural	Grain Handling , Grain Vac		Flex-Tube PU.060
Air Duct Cleaning	Duct Cleaning		Flex-Tube-TR,FSP-2,CWC-W
Automotive	A/C Units , Defroster Intake		GS,FL 550
Car Wash Air Dryer	Air Dryer, Vacuum Hose		T-7W,FSP-2,CW-GP,DPZ,Flx Plus
Carpet Cleaning	Portable Truck Mount		Blue STM
Chemical Fumes	Fume Control	Contact IRP - Require Detailed Info.	
Dust Collection	Dust Control		T-7,T-7W,CW-GP,Flx-ThaneLD,MD
Exhaust Systems	Carbon Monoxide Removal	Contact IRP - Require Detailed Info.	
Food - Powders	Powder Transfer	Check Vacuum Rating-Cleaning Required	R2,R3-Clear,FlexStat
Food - Sugar	Sugar Unloading	Before Processing-Highly Abrasive	Flx-ThaneHD,FlexStat 60
Food - Processing	Sugar During Process		R3 Clear,Flx-Thane ClearMD
Garage Exhaust	Fume Control -High Temp. Exhaust	Contact IRP - Require Detailed Info.	ACT,Flarelok,CW-325,GS
Injection Moulding Equip	Hot air drying - atop Pelitizer	Check Temperature	BDS,GS
Lawn and Leaf Collection	Grass and Leaf Collection		Flex-Tube PU,Flx-ThaneMD,HD
Metal Grinding	Exhaust	Should use a UL940VO product	CW-GP
Metal Stamping			Flx-ThaneMD,Flex-Tube PU
Mining	Ventilation		FSP-5,SD-W,CW-GP,AWP-W
Mulch and Bark	Conveying		Flex-Tube PU
Paper Mills	Drying, Fume , Moisture Control		CW-325,GS,Flx-ThaneHD,VHD
Pharmaceutical	Fume Ventilation		R2 ,R3 Clear,Flx-ThaneLD,T-7 White
Plastic Pellet Transfer	Conveying	Hose must be grounded	Flx-Thane MD , HD , Flx-ThaneSD,FlexStat
Portable Heater Duct	Air movement in confined spaces	Discuss application with IRP	FSP-5
Sandblasting	Dust Control		Flx-ThaneMD,CWC-W,FSP Bridge
Sewer and Waste	Water and Waste Discharge		Tiger Tail, Tail Sewer Guide,
Sheet Metal	Dust and Fume Control		T-7,CW-GP,Flx-ThaneLD
Street Sweepers	Vacuum Hoses		Flx-ThaneMD,HD,Flex-Tube PU
Vacuum	Industrial Vacuum Cleaning		DPZ,UniLoop,Commercial,Flx Plus
Welding Fumes	Fume Exhaust	Discuss application with IRP	CW-325,CW-GP,Flex-Lok550
Wood Dust	Light Dust from Planers		Flx-ThaneLD,Flex-Tube PV
Wood Particles	Larger Wood Chips from Planers		Flx-ThaneHD

Cross Reference Chart

Flexaust	Duravent	Flexmaster	Thermoid	Hi-Tech	Kanaflex
CWC	-	-	-	-	-
++ CW-GP	NC-2 (2PN)	AF-2	DE	-	-
++ CWS	NC-1 (1PN)	AF-1	SE	-	-
CWY	2NN	AF-2N	-	-	-
FL-181	SLP-10	FAB-4	-	-	-
CWC-W	2PN-W	AF-2W	DE-W	-	-
++ CW-325	PA-EX	AF-2FG	DNF	-	-
++ BDS	U9	-	SSF	SF-1	-
++ GS	L9	MBSF	DSF	SF-2	-
CWGS	-	-	-	-	-
FL-SF	-	U-LOK401	-	-	-
FL-1000	-	U-LOK1000	-	-	-
FL-1500	-	U-LOK1500	-	-	-
FL-TF	TFE-S	U-LOK1100	-	-	-
CWC WHITE HOSE	2PA-WHITE	AF/W2WHITE	-	-	-
CWC-2XN	NC-2-2X	AF-2-2X	DE-2X	-	-
FLC	NC-2-3X	AF-2-3X	DE-3X	-	-
LCW	-	AF-2NW	-	-	-
XLT	TPE	-	-	-	-
++ T-7	9025WB (Buch TPR-W)	SF-TPR (lighter)	TPR-W	RFH-W	WDWS
LT	9025	-	TPR	RFH	-
HT	-	-	TPR	RFH-045	-
TFR-W	-	-	-	RFHPLUS	-
++ FLX-THANE LD (BLACK/CLEAR)	DURATHANE LD	-	-	-	-
++ FLX-THANE MD (BLACK/CLEAR)	DURATHANE MD	-	TPU	UFD	-
++ FLX-THANE HD (CLEAR)	DURATHANE HD	-	-	-	-
++ FLX-THANE SD (BLACK/CLEAR)	-	-	-	-	-
LN	4NN	-	-	-	-
LN-W	4NN-W	-	-	-	-
++ FSP-1	TDS	U-LOK101	VP-1	-	-
++ FSP-2	TD-HS	-	VP-2	-	-
++ FSP-5	IPV-EPW	VINYL-BD	UB	MD-W	-
SD	IPN-EP	-	-	-	-
SD-W	IPN-EPW	NEOBD	-	-	-
GF-W	-	-	-	-	-
++ R2	PVC BLUE 8025	-	TPC	CVD	-
++ R3	-	-	TPC	CVD	-
++ R2C	-	-	-	-	-
++ R3C	-	-	-	-	-
R7	PVC BLUE	-	TPC	SPR	-
++ GPE	0122 PE (External Crimp)	-	-	J-11	-
MK11	-	-	-	333	-
++ DPZ	VAC-U-LOK	-	-	-	-
SUPER FLEX VAC	SUPER VAC-U-FLEX	-	-	-	-

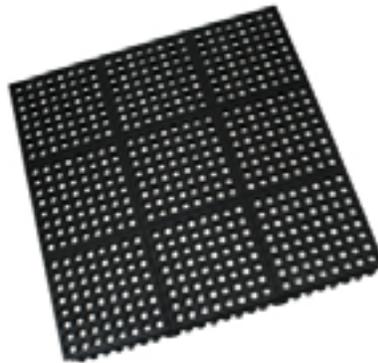
++ DENOTES CORE PRODUCT



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Sheet Rubber



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Sheet Rubber Products

Full rolls available from 3 feet to 4 feet wide, and lengths from 9 feet to 100 feet, depending on thickness

Durometers available from 40 to 90 Duro shore A, depending on style

Thickness available from 1/32" to 2" thick depending on style

Red Urethane 80 Duro in stock in thickness of 1/8", 3/16" and 1/4" thick

Custom width also available

Custom slitting to width

Closed cell sponge is in stock in 2 different durometers. Also comes with a skin on top and bottom

Sheet Compounds

Products Available	Characteristics	Usage Examples
SBR	Inexpensive, good for water and air	Vibration pads, skirtboard
NEOPRENE	Oil resistant	Drain covers, gaskets
NITRILE	Good for petroleum products (gas, diesel, oil)	Camlock gaskets
WHITE NITRILE	FDA Compounds - Good in food industry	Food, pharmaceutical
RED SHEET	Inexpensive, Mostly gaskets for air, water	Flange gaskets
PURE GUM 40	Good abrasion resistance	Drop chute sleeves, sandblast curtains
DURA - RED	High abrasion resistance	Abrasion applications
URETHANE	Excellent abrasion resistance - Hard durometers	Gaskets where high abrasion resistance is required
EPDM	Good UV resistance - Good chemical range	Steam gaskets, outdoor applications
BUTYL	Good high temp and chemical resistance	Hot tar and asphalt seal
HYPALON	Good chemical resistance	Chemical seal
VITON	Good chemical resistance	Chemical seal
NEOPRENE NYLON	Nylon fabric insert	Gaskets where high tear strength is required
CI PACKING	SBR with polyester insert	Gaskets where high tear strength is required
CHUTE & LAUNDER LINING	Good for metal chute lining	Mining chutes - bonding to metal

* For chemical - please supply MSDS paperwork



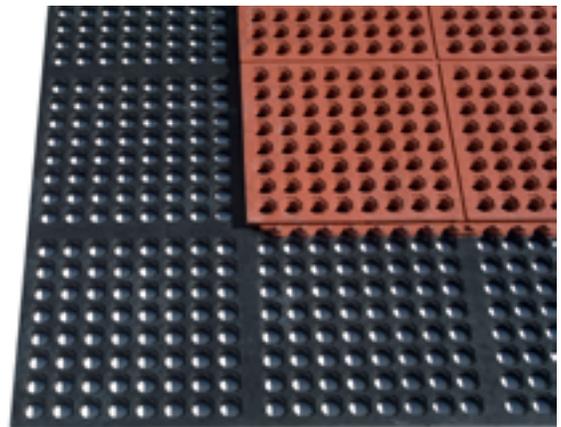
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Matting

Products Available:

- Hex Mats 3' x 3' x 5/8" thick, interconnectable
- Yellow safety edges for staminizer
- Switchboard high voltage matting
- Runner matting (wide rib, fine rib, and diamond top)- Anti-fatigue
- 1/8" cover (wide rib, fine rib or diamond top) bonded to a sponge back 1/4", or 3/8", available from 2 to 4 feet wide by up to 75 feet long.





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Products & Services

- Gaskets - All types of rubber, polyurethane, and silicone
- Rubber Sleeves
- Roller and pulley recovering (hot or cold bond)
- Vibration pads
- Anti-fatigue matting
- Rubber to metal bonding
- Rubber or sponge stripping c/w adhesive backing
- Ramps and bumpers
- Extrusions
- Molded parts

IRP Industrial Rubber has always offered a complete line of rubber sheeting from 1/32" to 2" cut to any dimensions you require.

As a compliment to this we have a fully equipped gasket and fabrication facility. We have the ability to custom build many types of parts made from rubber or urethane to meet your requirements.

Send us your drawing or sketches and we will offer you the same type of great service and quality that you are accustomed to when dealing with IRP.



I.R.P. INDUSTRIAL RUBBER LTD.



IRP Staff

Mississauga, Ontario.

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Customer Service Manager
Liz Douglas

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Ducting	Lisa Christian
Sheet Rubber, Rubber Fabrication	Jason Pluem

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