

ABRASIVE MATERIAL 5



ABRASIVE MATERIAL HOSE

Often ducting, or standard air and water hoses are used for material handling. However, the hoses that are listed in this section are constructed to give superior performance over general duty hoses. For light-weight particle collection please also see the Ducting & Vacuum Section.

Material handling service can vary from blowing lightweight insulation particles into walls, to carrying ore slurries across open pit mines. Different hose manufacturing technologies are chosen depending on the application. So Green Line offers a selection of material handling hoses incorporating specialized rubbers, PVC's, and urethanes in various constructions.

In general hoses are listed from lighter duty up to our heaviest hoses for extreme service.

G941WT & G941WE... PNEUMATIC TRANSFER

G941WT Pneumatic Transfer is designed for conveying powder, pellets or granular materials. The clear construction allows users to see any blockages and the food grade compound meets a variety of standards (see Food Section for complete details) so that this hose finds use in a variety of food handling applications. For example, in poultry processing, the 1" size is very popular because of its flexibility. G941WT is also very popular in injection molding plants for conveying plastic pellets.

G941WE is very similar but incorporates a copper static wire for grounding where movement of particles may cause a static build-up.

Other sizes, including some metric sizes used in plastic pellet transfer, are available on special order. Please enquire for details.

Construction: Clear, flexible, food grade PVC supported by a clear, rigid PVC helix. Food grade compound complies with FDA, USDA, and 3-A Sanitary Standards (see Food Section for explanations of applicable standards). G941WE incorporates a copper static wire embedded next to the helix.

Interior: Abrasion resistant PVC with smooth bore to eliminate material build-up.

Exterior: Abrasion resistant PVC, corrugated for increased flexibility.

Temperature Range: Static condition -20°C (-4°F) to 65°C (150°F). Dynamic condition -10°C (14°F) to 40°C (104°F)



G941WT



G941WE

I.D.	Part Number	O.D.	Working Pressure		Vacuum Rating 20°C	Bend Radius	Weight per ft	PRICE PER FOOT		Standard Length
			20°C	40°C				Cut	Std Length	
1"	G941WT-100	1.30"	55 psi	30 psi	28"Hg	2"	0.21 lb	\$ 4.40	\$ 3.20	100 ft
1 1/4"	G941WT-125	1.60	50	25	28	2	0.28	5.00	3.80	100
1 1/2"	G941WT-150	1.92	50	25	28	3	0.35	5.70	4.50	100
2"	G941WT-200	2.40	40	20	28	4	0.56	7.80	6.30	100
2 1/2"	G941WT-250	2.99	40	20	28	5	0.77	11.80	9.60	100
3"	G941WT-300	3.64	40	20	28	6	1.10	15.10	12.30	100
1 1/2"	G941WE-150	1.83	50	25	28	5	0.49	9.40	7.70	60
2"	G941WE-200	2.40	40	20	28	4	0.58	13.00	10.50	60
2 1/2"	G941WE-250	2.99	40	20	28	5	0.88	16.80	13.50	60
3"	G941WE-300	3.64	40	20	28	6	1.25	20.90	17.00	60
4"	G941WE-400	4.72	35	18	24	10	1.92	34.30	28.00	60

Polyurethane is an amazingly durable and abrasion resistant material. Because of this feature, Urethane Blower hose can be very lightweight and flexible and yet stand up to abrasion that would wear out comparable PVC or polyethylene hoses almost immediately. Urethane Blower hose is great for insulation blowing, lawn cleaning, leaf collection and abrasive material chutes. Polyurethane also remains flexible at very low temperatures.



G1740

G1740... URETHANE BLOWER

Construction: Translucent, thin, flexible polyurethane, supported by a rigid green PVC helix.

Interior: Highly abrasion resistant polyurethane that is smooth when laid straight.

Exterior: Hard, green PVC helix that protrudes above the clear tube to reduce resistance and abrasion when the hose is dragged.

Temperature Range: Static condition -40°C (-40°F) to 65°C (150°F). Dynamic condition -30°C (-22°F) to 40°C (104°F)

I.D.	Part Number	O.D.	Working Pressure		Vacuum Rating 20°C	Bend Radius	Weight per ft	PRICE PER FOOT		Standard Length
			20°C	40°C				Cut	Std Length	
1 1/2"	G1740-150	1.82"	20 psi	7 psi	22"Hg	1.5"	0.23 lb	\$ 6.50	\$ 5.40	60 ft
2	G1740-200	2.39	15	6	21	2.0	0.32	9.80	8.10	50
2 1/2	G1740-250	2.89	10	5	19	2.5	0.40	11.80	9.90	50
3	G1740-300	3.46	10	5	18	3.0	0.49	13.70	11.40	50
4	G1740-400	4.50	8	4	13	4.0	0.77	19.80	16.50	50

ABRASIVE MATERIAL HOSE

Multi-Purpose Transfer is designed for applications where high flexibility is required in a durable hose. G941W is popular for herring, salmon, and groundfish transfer on fish pumps. It is also excellent for conveying ice, wood shavings, and PVC pellets.

The flexible PVC portion is clear on all sizes so that hose contents are visible. In sizes 4" and up, a high molecular compound is used to provide increased wear and cold temperature flexibility.

G941W... MULTI-PURPOSE TRANSFER

Construction: Clear, flexible PVC, supported by a thick, grey, rigid PVC helix.

Interior: Smooth, abrasion and mild chemical resistant PVC.

Exterior: Corrugated, abrasion, weather, and chemical resistant PVC.

Temperature Range for Sizes 1" through 3":

Static condition -20°C (-4°F) to 65°C (150°F). Dynamic condition -10°C (14°F) to 40°C (104°F).

Temperature Range for Sizes 4" through 16":

Static condition -40°C (-40°F) to 65°C (150°F).

Dynamic condition -30°C (-22°F) to 40°C (104°F).

G941W



I.D.	Part Number	O.D.	Working Pressure		Vacuum Rating		Bend Radius	Weight per ft	PRICE PER FOOT		Standard Length
			20°C	40°C	20°C	40°C			Cut	Std Length	
1"	G941W-100	1.30	55 psi	35 psi	Full	28"Hg	1"	0.21 lb	\$ 3.00	\$ 2.40	100 ft
1 ¹ / ₄	G941W-125	1.60	50	30	Full	28	2	0.28	3.70	2.80	100
1 ¹ / ₂	G941W-150	1.85	50	30	Full	28	2	0.34	4.00	3.10	100
2	G941W-200	2.40	50	30	Full	28	3	0.52	5.40	4.20	100
2 ¹ / ₂	G941W-250	3.07	45	25	Full	28	4	0.77	8.50	6.80	100
3	G941W-300	3.64	45	25	Full	28	6	1.17	10.60	8.70	100
4	G941W-400	4.76	35	18	Full	28	8	1.92	17.70	14.50	100
5	G941W-500	5.75	35	18	28	25	12	2.41	27.20	22.50	100
6	G941W-600	7.00	30	15	28	25	14	3.75	33.90	27.80	Multiples of 10 ft
8	G941W-800	9.18	30	15	28	25	24	5.97	63.70	51.70	Multiples of 10 ft
10	G941W-1000	11.56	25	12	28	25	39	9.73	97.10	82.30	Multiples of 10 ft
12	G941W-1200	13.64	20	10	28	25	59	12.74	137.80	110.10	Multiples of 10 ft



G1341C is usually seen in the fall on municipal vacuum trucks where it is used to remove leaves and debris from plugged storm drains. It is constructed of a special material that combines the advantages of rubber and PVC, with features such as light weight, good abrasion resistance, good low temperature flexibility, and the ability to dissipate static electricity. Though most visible on leaf suction trucks, this hose is often used for conveying abrasive materials such as, grain, sand, gravel, cement, and crushed rock. For lighter duty applications where greater flexibility is required, we offer G1340C – a lighter version hose with similar construction and properties. G1340C is often used for grain vacuum service.



G1341C

G1341C & G1340C... TPR BULK MATERIAL

Construction: Black, abrasion resistant thermoplastic elastomer material supported by a thick, rigid PVC helix.

Interior: Smooth, abrasion and mild chemical resistant thermoplastic elastomer material.

Exterior: Corrugated, abrasion, weather, and chemical resistant thermoplastic elastomer.

Temperature Range: -40°C (- 40°F) to 65°C (150°F).

I.D.	Part Number	O.D.	Working Pressure at 20°C	Vacuum Rating at 20°C	Minimum Bend Radius	Weight per Foot	PRICE PER FOOT		Standard Length
							Cut	Std Length	
G1341C									
2"	G1341C-200	2.38	32 psi	Full	1.5"	0.56 lb	\$ 12.40	\$ 10.70	100 ft
3	G1341C-300	3.56	28	Full	2.5	0.98	20.60	18.00	100
4	G1341C-400	4.67	26	Full	4.5	1.70	32.40	28.40	100
5	G1341C-500	5.63	25	28" Hg	5.0	2.47	50.70	44.50	100
6	G1341C-600	6.88	19	28	9.5	3.20	64.10	56.40	100
8	G1341C-800	9.04	18	27	15.0	5.65	107.00	93.90	Multiples of 10 ft
G1340C									
4	G1340C-400	4.55	25	25	9	1.46	19.20	16.90	100
5	G1340C-500	5.65	25	25	10	2.16	26.80	23.60	100
6	G1340C-600	6.78	25	25	12	3.00	34.90	30.80	100

ABRASIVE MATERIAL HOSE

G1741 is for suction, discharge, and pneumatic transfer of abrasive materials. Urethane Bulk Material is recommended for sand and shot blast recovery lines, grain handling, roof rock cleaning, and milling machine metal recovery lines. This hose is much lighter than conventional rubber hoses because of its thermoplastic construction, yet remains flexible in the cold when general PVC hoses become too stiff to use.



G1741... URETHANE BULK MATERIAL

Construction: Clear polyurethane tube fused to high molecular-weight, flexible PVC, and supported by a rigid PVC helix

Interior: Smooth, clear, ultra-abrasion resistant polyurethane.

Exterior: Blue, convoluted, abrasion and weather resistant, high molecular-weight PVC compound.

Temperature Range: Static condition -40°C (-40°F) to 65°C (150°F). Dynamic condition -30°C (-22°F) to 40°C (104°F)

G1741

I.D.	Part Number	O.D.	Working Pressure		Vacuum Rating 20°C	Bend Radius	Weight per ft	PRICE PER FOOT		Standard Length
			20°C	40°C				Cut	Std Length	
1 1/2"	G1741-150	1.88"	50 psi	25 psi	Full	3"	0.46 lb	\$ 7.90	\$ 6.50	100 ft
2	G1741-200	2.44	40	20	Full	4	0.65	12.90	10.60	100
2 1/2	G1741-250	3.12	40	20	Full	5	0.89	16.60	13.60	100
3	G1741-300	3.70	40	20	Full	6	1.32	21.90	18.00	100
4	G1741-400	4.82	35	18	Full	10	2.14	35.30	29.40	100
5	G1741-500	5.81	35	18	28	15	2.66	55.50	46.10	100

The extremely abrasion resistant gum rubber tube in G741 allows it to stand up to most non-oily bulk materials such as gravel, sand, and fertilizers. The tube is also certified to FDA food grade standards, making it suitable for grains, corn, sugar, and other foodstuffs. Where static build-up is a problem, the built in static wire dissipates static electricity when properly grounded to couplings.



G741... GUM RUBBER MATERIAL TRANSFER

Tube: Smooth, tan, 3/16" thick, ultra abrasion-resistant natural gum rubber that is certified to FDA standards.

Reinforcement: Double wire helix plus static wire embedded between layers of synthetic textile cords

Cover: Corrugated, tan, wrapped finish, weather and abrasion resistant rubber.

Temperature Range: -40°C (-40°F) to 70°C (158°F)

Couplings: Because natural rubber is quite soft, it is difficult to obtain good fitting retention with punch clamps or band & buckles. On pressure applications, G38 double bolt clamps or G23T Tri-lock fittings may be required.

G741

I.D.	Part Number	O.D.	Working Pressure	Vacuum Rating	Bend Radius	Weight per ft	PRICE PER FOOT		Standard Length	
							20ft	Std Length		
1 1/2"	G741-150	2.12"	75 psi	Full	8"	1.19 lb	\$ 22.30	\$ 19.60	\$ 18.30	100 ft
2	G741-200	2.72	75	Full	10	1.31	23.30	20.20	19.10	100
2 1/2	G741-250	3.29	75	Full	14	1.68	34.80	30.30	28.50	100
3	G741-300	3.78	75	Full	16	2.04	36.50	31.80	29.90	100
4	G741-400	4.76	75	Full	22	2.70	40.60	35.40	33.40	100
5	G741-500	5.79	75	Full	32	3.46	47.50	40.80	39.00	100
6	G741-600	6.87	75	Full	37	4.47	52.70	45.40	43.50	100
8	G741-800	9.02	75	Full	51	5.90	105.70	90.70	86.70	100

ABRASIVE MATERIAL HOSE

G722 Sandblast is designed to conduct sand, shot, glass beads, and other abrasives at high velocity. The tube is static conductive to prevent dangerous shocks and the outside diameter is designed to accept over-the-cover sandblast couplings. The life of a sandblast is greatly affected by velocity of flow and amount of hose bending. Typically, hoses will wear out on the outside radius of a curved hose, especially near the operator where it is continuously flexed. Selection of the correct nozzle size is important to prevent

premature wear. Please see the chart below. Sandblast whip hoses are designed with a reduced outside diameter for extra flexibility to reduce operator fatigue. However, the tighter bends that occur with the smaller outside diameters will reduce hose life.

Of course the quality and thickness of the tube material also affect the life and the price of the hose. Be wary of less expensive sandblast hoses that may give false economy if they wear out faster. There is an international standard (DIN 53516) that measures abrasion loss of rubber. The rating for G722 is 70+/- 1.5 mm³. Wear rates of competitive hoses found in the market have been measured at 140 and more.



G722... SANDBLAST

Tube: Smooth, black, very abrasion resistant, static-conductive, natural rubber.

Reinforcement: Multiple layers of spiralled textile cords.

Cover: Black, pin-pricked, abrasion and weather resistant rubber with wrapped finish.

Temperature Range: -40°C (-40°F) to 95°C (203°F)

G722

I.D.	Part Number	O.D.	Working Pressure	Tube Thickness	Weight per ft	PRICE PER FOOT Cut	Std Length	Standard Length
1/2"	G722-050	1.06"	150 psi	0.23"	0.36 lb	\$ 6.20	\$ 4.60	50 or 100 ft
3/4"	G722-075	1.50	150	0.27	0.64	7.70	5.60	50 or 100
1"	G722-100	1.88	150	0.31	1.04	9.40	6.90	50 or 100
1 1/4"	G722-125	2.16	150	0.31	1.25	9.80	7.50	50 or 100
1 1/2"	G722-150	2.38	150	0.30	1.30	13.10	9.90	50 or 100
2"	G722-200	2.88	150	0.31	1.64	17.00	11.30	50 or 100
2 1/2"	G722-250	3.44	150	0.31	2.24	28.30	21.70	50 or 100
3"	G722-300	4.06	150	0.31	2.70	37.40	28.80	50 or 100
Whip Hose								
1"	G722-100-150	1.50"	150 psi	0.28"	0.55	6.90	5.40	50 or 100
1 1/4"	G722-125-188	1.88	150	0.28	0.80	9.20	7.20	50 or 100

Sandblast Hose Size	Nozzle Type	Nozzle Diameter	Air Flow at 100 psi	Air Hose Size	Material Flow
1"	B4	1/4"	90 cfm	1 1/4"	540 lb/hr
1 1/4"	UB5	5/16"	150	1 1/4"	900
1 1/4"	UB6	3/8"	200	1 1/2"	1260
1 1/2"	UB7	7/16"	260	1 1/2"	1750
1 1/2"	UB8	1/2"	350	2"	2250

ABRASIVE MATERIAL HOSE

Gunite is a relatively dry mixture of sand and cement that is conveyed at high velocity through the hose to a nozzle. Sufficient water is added at the nozzle to produce a uniform concrete mixture with zero slump and high strength. G724 gunite hose is made with a natural rubber tube and cover for maximum flexibility, to reduce operator fatigue. The thick tan rubber tube provides excellent resistance to the highly abrasive concrete mixture.

G724

G724... GUNITE HOSE

Tube: Smooth, tan, natural rubber

Reinforcement: Spiral layers of textile cords plus static wire

Cover: Tan, wrapped finish, natural rubber.

Temperature Range: -40°C (-40°F) to 70°C (158°F)

I.D.	Part Number	O.D.	Working Pressure	Weight per ft	PRICE PER FOOT		Standard Length
					Cut	Std Length	
1½"	G724-150	2.38"	150 psi	1.35 lb	\$ 26.70	\$ 17.80	50 ft
2"	G724-200	2.95"	150	1.75	31.70	21.10	50

Rhino Hose is our heaviest hose and is ideal for handling slurries, gravel, ore, ground-fish, and other abrasive materials where conditions are severe. The corrugated cover is designed to fit an over-the-cover flange fitting system. Flanges feature corrugated coupling sleeves that fit tightly over the hose when flange halves are bolted together. This provides a full-flow coupling that can be installed in the field.

G743

G743... RHINO MATERIAL HANDLING

Couplings: G79 couplings only. Regular barbed hose inserts are not recommended.

Tube: Smooth, tan, 3/8" thick, natural rubber.

Reinforcement: Double wire helix embedded between layers of synthetic spiral cords.

Cover: Corrugated, black, weather resistant rubber.

Temperature Range: -40°C (-40°F) to 70°C (158°F)

I.D.	Part Number	O.D.	Working Pressure	Vacuum Rating	Bend Radius	Weight per ft	PRICE PER FOOT			Standard Length
							Cut	20 ft	Std Length	
3"	G743-300	4.5"	150 psi	Full	18"	4.2 lb	\$ 60.70	\$ 49.20	\$ 45.80	100 ft
4"	G743-400	5.3"	150	Full	24"	5.0	76.60	61.80	57.90	100
6"	G743-600	7.5"	150	Full	36"	8.0	111.70	92.50	84.00	100
8"	G743-800	9.5"	150	Full	69"	12.0	158.10	125.30	118.80	40
10*	G743-1000	11.5"	150	Full	79"	16.0		148.30	141.80	40
12"	G743-1200	13.75"	150	Full	95"	24.0		195.10	186.60	40

*Note: 10" size measures 9.85" actual I.D. to allow conformance to external coupling size while maintaining 3/8" tube thickness and 150 psi rating

ABRASIVE MATERIAL HOSE

Dry Cement Hose is a collapsible (soft-wall) hose which uses a highly abrasion-resistant natural rubber tube for maximum life in the conveying of bulk dry cement and other dry materials such as sand, gravel, limestone, and fertilizer.

G772 & 774... DRY CEMENT

Tube: We offer our lightweight G772 hose with a 1/8" thick tube, while G774 has a 1/4" thick tube. Both are black, abrasion-resistant, static conducting, natural rubber.

Reinforcement: Spiral layers of textile cords.

Cover: Black, abrasion and weather resistant rubber with wrapped finish.

Temperature Range: -40°C (-40°F) to 85°C (185°F)



G772 & 774

I.D.	Part Number	O.D.	Working Pressure	Weight per ft	PRICE PER FOOT			Standard Length
					Cut	20 ft	Std Length	
4"	G772-400	4.50"	80 psi	1.50 lb	\$ 25.10	\$ 18.60	\$ 18.10	100 ft
5	G772-500	5.50	80	1.88	29.50	24.50	24.00	100
4	G774-400	4.80	80	2.72	28.90	24.00	23.40	100
5	G774-500	5.79	80	3.30	45.20	34.60	33.50	100

ABRASIVE MATERIAL HOSE

G782... FABRIC CONCRETE PLACEMENT HOSE

Tube: Smooth, black, abrasion resistant Natural/SBR blend rubber specially compounded for abrasion resistance.

Reinforcement: Spiral layers of textile cords.

Cover: Black, abrasion and weather resistant Natural/SBR blend rubber wrapped finish and yellow stripe.

Temperature Range: -40°C (-40°F) to 70°C (158°F)



I.D.	Part Number	O.D.	Working Pressure	Weight per ft	PRICE PER FOOT Std Length	Standard Lengths	Bulk Length
2"	G782-200	2.7"	1233 psi	1.27 lb	\$ 13.00	25, 50	100 ft
2½"	G782-250	3.37	1000	1.79	17.00	25, 50	100
3"	G782-300	4.02	1000	2.51	22.70	10,12.5, 25, 50	100
3½"	G782-350	4.70	1000	3.37	27.10	10,12.5, 25, 50	100
4"	G782-400	5.12	1000	3.52	31.00	10,12.5, 25, 50	100

CONCRETE HOSE ASSEMBLIES

Standard hose assemblies are fitted with heavy-duty style ends. The full-flow design stems are hardened to Rockwell 58-62 to a depth of 0.020" to 0.025" for maximum wear. Metric design end fittings are available on special order.



G782 assembly

Hose Size	Length	Part Number	Weight Each	PRICE EACH
2"	25 ft	G782-200HH25	42 lb	\$ 488.00
2"	50	G782-200HH50	74	813.00
2 ½"	25	G782-250HH25	57	619.00
2 ½"	50	G782-250HH50	102	1,044.00
3"	10	G782-300HH10	40	445.00
3"	12.5	G782-300HH12	45	501.75
3"	20	G782-300HH20	65	672.00
3"	25	G782-300HH25	78	785.50
3 ½"	10	G782-350HH10	54	631.00
3 ½"	12.5	G782-350HH12	61	698.75
3 ½"	20	G782-350HH20	91	902.00
3 ½"	25	G782-350HH25	104	1,037.50
4"	10	G782-400HH10	57	540.00
4"	12.5	G782-400HH12	65	617.50
4"	25	G782-400HH25	110	1,005.00