CAT 5

24

INDUSTRIAL RUBBER HOSE

AIR
CHEMICAL
MATERIAL TRANSFER
PETROLEUM
WATER

SEALFAST
THE SIMPLE SOLUTION

INDEX

TERMS OF SALE

TERMS:

1/2% 10 Days, net 30 Days

FREIGHT:

All shipments are made FOB Seal Fast Inc. or Point of Manufacturer. (Applies to shipments from Houston Warehouse Only) Freight prepaid on 1000 net couplings and accessories, $1500 Net Couplings, PVC Tubing, Braided Tubing and Fire Hose. Freight prepaid on $3000 Net Couplings, Rubber Hose, PVC Hose and Sheet Rubber with the exclusion of all PVC Suction including 6" and 8" PVC Suction ONLY orders. If combined with other items freight is prepaid at $3000 Net, otherwise these items will Not be applied toward prepaid freight. **Effective immediately, regardless of invoice value, all uncoupled cut lengths of hoses are shipped FOB Seal Fast Inc.** Seal Fast Inc. reserves the right to determine the most Economical shipping method on all prepaid shipments. **In addition, Seal Fast Inc. reserves the right to refuse any prepaid shipments exceeding 6% freight cost of the order unless items are added or subtracted to keep said freight cost at or below 6%.** Applies to Continental United States, excluding Alaska and Hawaii. **Any evidence of shortage must be reported to Seal Fast Inc. within 10 days. Any Damage to hose/hoses, etc. customer is responsible for filing a claim with the delivery carrier within 10 days. Seal Fast Inc. will not issue credit.**

ALL UPS prepay and add or collect shipments will endure a **$7.50** shipping and handling fee including All backorders.

All drop shipments will endure a $5.00 fee.

WARRANTY:

Products are warranted against defects in workmanship and defects in material. Products having such defects will be replaced or credited as Seal Fast elects. Liability is limited to the invoice value of the defective item. Our responsibility shall not exceed the original purchase price of the defective product. In any event, Seal Fast, Inc. shall not be held responsible for any special or consequential damages.

RETURNED GOODS:

If for any reason you wish to return goods, please contact Seal Fast Inc. for prior authorization number. Goods must be returned within 30 days and must be in new and resaleable condition. Minimum handling charge is 15%.

All discrepancies in shipment / invoice must be reported within 10 days of receipt of goods.

PROMPTPAYMENT:

Orders receive preferred treatment when the account is paid promptly. Orders may be held up if any unpaid invoice exceeds 30 days.

MINIMUM INVOICE:

All invoices are subject to a minimum billing charge of 50.00 net. Returned checks are subject to a $25.00 service charge.

GENERAL:

Orders will be accepted subject to delays caused by accident, strike, fire or other causes beyond the control of the seller including failure of seller's suppliers to deliver. Prices, discounts and other specifications are subject to change without notice. All prices are subject to any applicable taxes imposed. The possessions of this price schedule is not to be construed as an offer to sell at the prices shown. Special price for volume quotes will be accepted in writing only.

PLEASE NOTE:

Extra care is taken in the preparation of this literature but Seal Fast, Inc. is not responsible for any inadvertent typographical errors or omissions.

STOCKING WAREHOUSES

SEAL FAST, INC.
5603 Harvey Wilson Dr.
Houston, TX 77020

(713) 675-6324 or 800-231-0734 | FAX (713) 675-0146 or 800-681-1515 | E-mail sales@sealfast.com

PORTER ASSOCIATES
1150 Boot Road
Unit 1
Downingtown, PA 19335
(610) 518-2301

ASPEN MARKETING, INC
5160 Fox Street
Denver, CO 80216
(303) 455-8175
(303) 477-6504 Fax

THE WAGNER GROUP
125 State St.
P O Box 1683
Elkhart, IN 46516
(574) 294-2769
(574) 522-2083 Fax

DISCLAIMERS

Product Images

- Seal Fast makes every reasonable effort to show accurate product representation, however pictures are for reference only, and do not necessarily reflect the exact product you will receive.
- Seal Fast reserves the right to alter product appearance without notice. Some product features shown in pictures may no longer be available.

Product Specifications

- Seal Fast is continuously working to provide the best quality for the best price.
- We reserve the right to alter product specifications without notice.

Product Usage

- Our Sales Team will do their best to assist in choosing the best product for a particular application. However, it is ultimately the customer's responsibility to determine the correct product for the correct application.
- Seal Fast will not be held liable for the abuse or misuse of our products in a manner in which they are not designed.
- Seal Fast cannot guarantee the integrity of an assembly if other manufacturers parts are used.

Product Availability

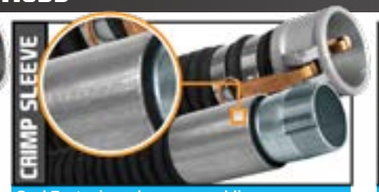
- Seal Fast reserves the right to discontinue products at any time without prior notice.

Product Pricing

- Seal Fast is constantly doing our best to maintain pricing levels. However, circumstances change and while many prices go down, others will increase.
- Please contact your sales associate for current pricing.

STANDARD COUPLING METHODS

Seal Fast banded assemblies are designed for maximum hose retention with the added benefit of being reparable in the field.



Seal Fast crimp sleeve assemblies are designed for maximum hose retention and provide a clean looking, snag-free assembly.

Seal Fast crimp assemblies using ferrules are designed for maximum hose retention, with an added safety featured an "interlock". The top of the ferrule grabs into the interlock giving the operator extra piece of mind. All Seal Fast assemblies using ferrules must be paired with either our crimp cam lock or crimp combination nipples.

OTHER COUPLING METHODS

POSSIBLE ATTACHMENTS

STANDARD METHODS

SPECIALTY COUPLINGS

DISCLAIMER!

Seal Fast does not stock or necessarily offer assemblies with all of the parts depicted here. The purpose of this page is to give the customer an idea of the various combinations that can be achieved when they shop at Seal Fast. Not all fittings are suitable for all hoses, and not all clamping methods are suitable for all hose/fitting combinations. Seal Fast offers a variety of material options for the fittings as well. Not all materials are suitable for all applications so please consult with your sales representative before ordering.

*Hose construction may vary. Hoses might be supplied with 1 or 2 wires. This does not affect working/burst pressure.

GENERAL PURPOSE - PREMIUM

SPECS

- Temp Range: -20° F to +176° F
- Cover: EPDM/SBR blend
- Tube: EPDM/SBR blend
- Reinforcement: Spiral braided polyester
- Safety Factor: 3:1 min

FEATURES

- An economy general purpose air & water hose engineered for medium duty applications | Limited Oil Resistance

ID	Length	O.D.	Working PSI	Burst PSI	lbs per ft	TUBE: Black EPDM/SBR									
						RED = (R)		BLACK = (B)		Green = (G)		YELLOW = (Y)		BLUE = (BL)	
						Part #	List ft.	Part #	List ft.	Part #	List ft.	Part #	List ft.	Part #	List ft.
1/4"	600'	.51"	300	900	0.123	SFAH 025		SFAHB 025		---		---		---	
3/8"	600'	.65"	300	900	0.163	SFAH 038		SFAHB 038		---		---		---	
1/2"	600'	.82"	300	900	0.242	SFAH 050		SFAHB 050		---		---		---	
5/8"	300'	1.14"	300	900	0.429	SFAH 058		SFAHB 058		SFAHG 058		SFAHY 058		SFAHBL 058	
3/4"	300'	1.14"	300	900	0.429	SFAH 075		SFAHB 075		SFAHG 075		SFAHY 075		SFAHBL 075	
1"	300'	1.39"	200	600	0.535	SFAH 100		SFAHB 100		---		---		---	
	300'	1.44"	300	900	0.537	SFAH 100-2		SFAHB 100-2		---					
	100'	1.39"	200	600	0.535	SFAH 100 100		SFAHB 100 100		---		---		---	
1-1/4"	100'	1.73"	200	600	0.813	SFAH 125		SFAHB 125		---		---		---	
1-1/2"	100'	2.05"	200	600	1.123	SFAH 150		SFAHB 150		---		---		---	
2"	100'	2.64"	200	600	1.22	SFAH 200		SFAHB 200		---		---		---	

GENERAL PURPOSE - PREMIUM ASSEMBLIES

CROWFEET

ID	Length	# of Bands	BANDS - SS PART #	BANDS - SS PRICE	CRIMP SLEEVES - PLATED STEEL PART #	CRIMP SLEEVES - PLATED STEEL PRICE
1/4"	50'		SFAH025B		SFAH025C	
3/8"	50'	2	SFAH038B		SFAH038C	
1/2"	50'		SFAH050B		SFAH050C	
3/4"	25'	2	SFAH07525B		SFAH07525C	
	50'		SFAH075B		SFAH075C	
	100'	2	SFAH075100B		SFAH075100C	
1"	50'		SFAH100B		SFAH100C	
	50'	2	SFAH100-2B		SFAH100-2C	
	100'	2	SFAH100100B		SFAH100100C	

CROWFEET

ID	Length	# of Bands	BANDS - SS PART #	BANDS - SS PRICE	CRIMP SLEEVES - PLATED STEEL PART #	CRIMP SLEEVES - PLATED STEEL PRICE
3/4"	50'	2	SFAHB075B		SFAHB075C	
3/4"	50'	2	SFAHG075B		SFAHG075C	
3/4"	50'	2	SFAHY075B		SFAHY075C	
3/4"	50'	2	SFAHBL075B		SFAHBL075C	

*Hose construction may vary. Hoses might be supplied with 1 or 2 wires. This does not affect working/burst pressure.

PUSH ON - BLACK

SPECS

- Temp Range: -20° F to +176° F
- Cover: Neoprene
- Tube: Black NBR
- Reinforcement: Braided polyester
- Safety Factor: 3:1 min

FEATURES

- A multi-purpose air & water hose designed for use with Push-On fittings, requiring no type of clamping.
- This oil resistant hose is excellent for use with air tools, mild chemicals & various petroleum products.

ID	OD	Length	BLACK NEOPRENE / NBR 300 PSI					
			Working PSI	Burst PSI	Bend Radius	lbs per ft	Part #	List ft.
1/4”	0.500”	100' / 300'	300	900	-	9	PH025	
3/8”	0.625”	100' / 300'	300	900	-	12	PH038	
1/2”	0.750”	100' / 300'	300	900	-	15	PH050	

HOT AIR BLOWER

SPECS

- Temp Range: -22° F to +300° F
- Cover: Black or Tan EPDM rubber
- Tube: Black heat resistant EPDM rubber
- Reinforcement: High tensile textile fabric; steel wire helix
- Safety Factor: 3:1 min

FEATURES

- This hose is specifiy designed to convey hot air from the compressor or blower on dry material unloading systems.

ID	OD	Length	TUBE: BLACK EPDM RUBBER							
							BLACK		TAN	
			Working PSI	Burst PSI	Bend Radius	lbs per ft	Part #	List ft.	Part #	List ft.
3”	3.55”	100’	150	450	12”	1.75	HAB 300		HAB 300T 100	
4”	4.57”	100’	150	450	22”	3.02	HAB 400		HAB 400T 100	

*Hose construction may vary. Hoses might be supplied with 1 or 2 wires. This does not affect working/burst pressure.

TEXTILE - YELLOW

SPECS

- Temp Range: -22° F to +180° F
- Cover: Yellow NR/SBR/EPDM
- Tube: NR/SBR
- Reinforcement: High tensile textile fabric
- Safety Factor: 3:1 min

FEATURES

- A heavy duty multi-purpose air hose engineered for applications requiring a rugged hose.
- Excellent wear resistance, ozone resistance & heat resistance.

ID	OD	Length	YELLOW BLENDED RUBBER 100 - 300 PSI				
			Working PSI	Burst PSI	lbs per ft	Part #	List ft.
1”	1.38”	100’	300	900	.44	TEA 100	
1-1/2”	1.97”	100’	300	900	.71	TEA 150	
2”	2.52”	100”	300	900	1.01	TEA 200	
2-1/2”	3.04”	100’	300	900	1.24	TEA 250	
3”	3.51”	100’	300	900	1.51	TEA 300	
4”	4.67”	100’	300	900	2.80	TEA 400	

WIRE AIR - YELLOW/RED STRIPE

SPECS

- Temp Range: -40° F to +248° F
- Cover: Yellow EPDM
- Tube: Black, Smooth, Synthetic Rubber, Heat & Oil mist resistant (SBR)
- Reinforcement: Plies of steel wire cord
- Safety Factor: 4:1 min

FEATURES

- Designed for the most severe jobs in mining, quarries, industrial & construction service, this mandrel built hose has a high margin of safety & gives a long & trouble-free service under the most arduous working conditions.
- Also known as “Bull Hose”.

ID	OD	Length	YELLOW EPDM / SBR 500 - 1000 PSI				
			Working PSI	Burst PSI	lbs per ft	Part #	List ft.
1/2”	.91”	100’	1000	4000	.37	WA 050	
3/4”	1.14”	100’	1000	4000	.50	WA 075	
1”	1.42”	100’	800	3200	.65	WA 100	
1-1/4”	1.69”	100’	800	3200	.80	WA 125	
1-1/2”	1.97”	100’	800	3200	1.05	WA 150	
2”	2.52”	100’	600	2400	1.50	WA 200	
2-1/2”	3.07”	100’	500	2000	2.00	WA 250	
3”	3.62”	100’	500	2000	2.50	WA 300	
4”	4.80”	100’	500	2000	3.90	WA 400	

*Hose construction may vary. Hoses might be supplied with 1 or 2 wires. This does not affect working/burst pressure.

XLPE - 200 PSI

SPECS

- **Temp Range:** -22° F to +212° F
- **Cover:**Green, EPDM Rubber
- **Tube:** Clear, Cross-Linked Polyethylene; EPDM
- **Reinforcement:** High tensile textile fabric; steel wire helix; anti-static copper wire
- **Safety Factor:** 4:1 min

FEATURES

- Used for suction & delivery of acids, solvents & chemicals w/ high concentrations.
- WARNING: Temp rating depends on concentration of exact chemical used.

ID	OD	Length	GREEN EPDM / CROSS-LINKED POLYETHYLENE 150-200 PSI					
			Working PSI	Burst PSI	Bend Radius	lbs per ft	Part #	List ft.
3/4”	1.26”	100’	200	800	6”	.54	CH 075	
1”	1.50”	100’	200	800	8”	.67	CH 100	
1-1/4”	1.78”	100’	200	800	8”	.81	CH 125	
1-1/2”	2.01”	100’	200	800	8”	.94	CH 150	
2”	2.52”	100’	200	800	10”	1.28	CH 200	
2-1/2”	3.04”	100’	200	800	17”	1.55	CH 250	
3”	3.55”	100’	200	800	18”	1.95	CH 300	
4”	4.65”	100’	200	800	20”	2.76	CH 400	

XLPE ASSEMBLIES

CAM LOCK C X E - 316SS

CRIMP SLEEVES - 304SS

ID	Length	# of Bands	PART #	PRICE
2”	20’	2	CH20020CESSC	

*Hose construction may vary. Hoses might be supplied with 1 or 2 wires. This does not affect working/burst pressure.

UHMW - CORRUGATED

SPECS

- **Temp Range: -40° F to +250° F**
- **Cover: Blue, corrugated EPDM**
- **Tube: Clear, Ultra High Molecular Weight Polyethylene; EPDM**
- **Reinforcement: High tensile textile fabric; steel wire helix; anti-static copper wire**
- **Safety Factor: 4:1 min**

Also available in green

FEATURES

- A flexible chemical hose used for suction & delivery of 98% of industrial chemicals, corrosive liquids & solvents.
- WARNING: Temp rating depends on concentration of exact chemical used.

ID	OD	Length	BLUE EPDM / ULTRA HIGH MOLECULAR WEIGHT POLYTETHYLENE 200 PSI						
			Working PSI	Burst PSI	Bend Radius	lbs per ft	Part # - Blue	Part # - Green	List ft.
1”	1.58”	100’	200	800	6”	.67	UHMW 100	UHMW 100G	
1-1/4”	2.09”	100’	200	800	9”	.94	UHMW 125	UHMW 125G	
1-1/2”	2.09”	100’	200	800	9”	.94	UHMW 150	UHMW 150G	
2”	2.64”	100’	200	800	11”	1.28	UHMW 200	UHMW 200G	
2-1/2”	2.64”	100’	200	800	11”	1.28	UHMW 250	UHMW 250G	
3”	3.67”	100’	200	800	16”	1.88	UHMW 300	UHMW 300G	
4”	4.69”	100’	200	800	31”	2.49	UHMW 400	UHMW 400G	
6”	4.69”	100’	200	800	31”	2.49	UHMW 600	UHMW 600G	

UHMW CORRUGATED ASSEMBLIES

CAM LOCK C X E - 316SS

CRIMP SLEEVES - 304SS

ID	Length	# of Bands	PART #	PRICE
2”	20’	2	UHMW20020CESSC	

UHMW - SMOOTH

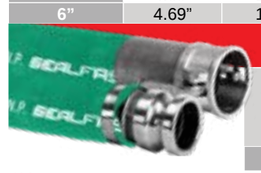
SPECS

- **Temp Range: -40° F to +250° F**
- **Cover: Green, EPDM Rubber**
- **Tube: Clear, Ultra High Molecular Weight Polyethylene; EPDM**
- **Reinforcement: High tensile textile fabric; steel wire helix; anti-static copper wire**
- **Safety Factor: 4:1 min**

FEATURES

- A flexible chemical hose used for suction & delivery of 98% of industrial chemicals, corrosive liquids & solvents.
- WARNING: Temp rating depends on concentration of exact chemical used.

ID	OD	Length	GREEN EPDM / ULTRA HIGH MOLECULAR WEIGHT POLYTETHYLENE 200 PSI					
			Working PSI	Burst PSI	Bend Radius	lbs per ft	Part #	List ft.
1”	1.58”	100’	200	800	6”	.67	UHMWS 100G	
1-1/4”	2.09”	100’	200	800	9”	.94	UHMWS 125G	
1-1/2”	2.09”	100’	200	800	9”	.94	UHMWS 150G	
2”	2.64”	100’	200	800	11”	1.28	UHMWS 200G	
2-1/2”	2.64”	100’	200	800	11”	1.28	UHMWS 250G	
3”	3.67”	100’	200	800	16”	1.88	UHMWS 300G	
4”	4.69”	100’	200	800	31”	2.49	UHMWS 400G	
6”	4.69”	100’	200	800	31”	2.49	UHMWS 600G	



UHMW SMOOTH ASSEMBLIES

CAM LOCK C X E - 316SS

CRIMP SLEEVES - 304SS

ID	Length	# of Bands	PART #	PRICE
2”	20’	2	UHMW20020CESSC	

*Hose construction may vary. Hoses might be supplied with 1 or 2 wires. This does not affect working/burst pressure.

BULK MATERIAL SUCTION & DISCHARGE

SPECS

- Temp Range: -25° F to +190° F
- Cover: Green corrugated, SBR
- Tube: Natural Gum Rubber
- Reinforcement: High tensile tire cord; steel wire helix
- Safety Factor: 3:1 min

FEATURES

- Suitable for abrasive materials wet or dry.
- FDA tube can also be used for foodstuffs, flour, plastic pellets, etc. Perfect for sandblast return operations. Use Helix Wire for Static Grounding to couplings.

ID	OD	Length	GREEN SBR / GUM RUBBER					
			75-150 PSI					
			Working PSI	Burst PSI	Bend Radius	lbs per ft	Part #	List ft.
2”	2.91”	50’	150	450	14”	1.86	BM 200	
3”	3.94”	50’	125	450	23”	2.51	BM 300	
4”	4.96”	50’	100	300	28”	3.58	BM 400	
6”	7.01”	50’	75	150	42”	6.32	BM 600	

DRY CEMENT DISCHARGE

SPECS

- Temp Range: -40° F to +158° F
- Cover:Black, NR/SBR
- Tube: Black, BR/SBR/NR
- Reinforcement: High tensile tire cord
- Safety Factor: 3:1 min

FEATURES

- Soft wall hose suitable for dry abrasive materials & slurrie transfers.
- Compounded for long wear resistance in handling of hard, sharp, abrasive materials; anti-static.

ID	OD	Length	Tube Thickness	BLACK BLENDED RUBBER					
				75 PSI					
				Working PSI	Burst PSI	Bend Radius	lbs per ft	Part #	List ft.
4”	4.37”	50’ / 100'	1/8”	75	225	-	1.61	CD 400-1	
	4.63”	50’ / 100'	3/16”	75	225	-	2.08	CD 400-2	
	4.79”	50’ / 100’	1/4”	75	225	-	2.49	CD 400-3	

*Hose construction may vary. Hoses might be supplied with 1 or 2 wires. This does not affect working/burst pressure.

PLASTER, GROUT & CONCRETE

SPECS

- Temp Range: -22° F to +180° F
- Cover: Black Synthetic Rubber
- Tube: Black Conductive Synthetic Rubber
- Reinforcement: Spiraled high tensile textile cords
- Safety Factor: 3:1 min

FEATURES

- Designed for pumping plaster, grout & wet concrete to construction placement sites.

ID	OD	Length	BLACK SYNTHETIC RUBBER					
			800 PSI					
			Working PSI	Burst PSI	Bend Radius	lbs per ft	Part #	List ft.
1”	1.54”	100’	800	2400	3”	.54	PGC 100	
1-1/4”	1.85”	100’	800	2400	4”	.74	PGC 125	
1-1/2”	2.01”	100’	800	2400	5”	1.08	PGC 150	
2”	2.84”	100’	800	2400	14”	1.41	PGC 200	

SANDBLAST

SPECS

- Temp Range: -22° F to +176° F
- Cover: Black Synthetic Rubber,; Pinpricked.
- Tube: Black Rubber, static conductive
- Reinforcement: For 1/2” hose there is a 2 ply tire cord & for 3/4” to 1-1/2” there is a 4 ply tire cord.
- Safety Factor: 3:1

HOSE COUPLINGS w/SCREWS ON P.70

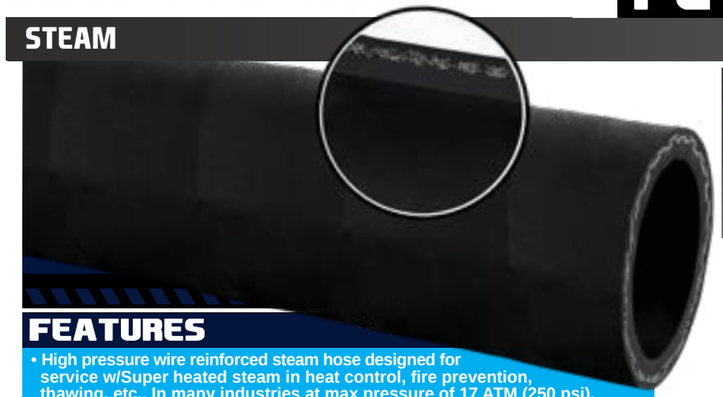
FEATURES

- A long lasting heavy-duty hose 2 or 4 ply, exceptionally tough & abrasion resistant, for use in sand and steel blasting service.
- It is manufactured from static conductive materials.

ID	Ply	OD	Length	BLACK BLENDED RUBBER					
				150 PSI					
				Working PSI	Burst PSI	Bend Radius	lbs per ft	Part #	List ft.
1/2”	2	1.06”	50’ / 100’	150	450	2”	.3	SA 050	
3/4”	4	1.50”	50’ / 100’	150	450	3”	.44	SA 075	
1”	4	1.89”	50’ / 100’	150	450	3”	.54	SA 100	
1-1/4”	4	2.17”	50’ / 100’	150	450	4”	.74	SA 125	
1-1/2”	4	2.36”	50’ / 100’	150	450	5”	.84	SA 150	

*Hose construction may vary. Hoses might be supplied with 1 or 2 wires. This does not affect working/burst pressure.

STEAM



SPECS

Temp Range: -40° F to +450° F
• Cover: Nitrile (pinpricked)
• Tube: Black, smooth, EPDM rubber specially compounded to withstand saturated & super-heated steam
• Reinforcement: Plies of steel wire cord
• Safety Factor: 10:1

FEATURES

- High pressure wire reinforced steam hose designed for service w/Super heated steam in heat control, fire prevention, thawing, etc., In many industries at max pressure of 17 ATM (250 psi).
- Pin Prick Cover, for longer life drain after use.

* NOT RECOMMENDED FOR STEAM CLEANER.

WARNING:

- Drain after use
- Steam heat increases in temperature as pressure increases
- Please consult with your coupling manufacture to insure the hose is coupled in accordance with current saftey standards.
- Exposer to steam can cause serious injury or even death.
- Correct hose selection, assembly, maintenance and useage is critcial to avoid serious injury or even death.

ID	OD	Length	BLACK NEOPRENE / NITRILE 250 PSI					
			Working PSI	Burst PSI	Bend Radius	lbs per ft	Part #	List ft.
1/2”	.99”	50’ / 100’	250	n/a	6”	.37	ST 050	
3/4”	1.25”	50’ / 100’	250	n/a	9”	.52	ST 075	
1”	1.50”	50’ / 100’	250	n/a	12”	.65	ST 100	
1-1/4”	1.80”	50’ / 100’	250	n/a	15”	.83	ST 125	
1-1/2”	2.12”	50’ / 100’	250	n/a	18”	1.11	ST 150	
2”	2.60”	50’ / 100’	250	n/a	24”	1.50	ST 200	
3”	2.60”	50’ / 100’	250	n/a	24”	1.50	ST 300	

HOT TAR

SPECS

• Temp Range: -20° F to +350° F
• Cover:Black, Synthetic Acrylic Rubber
• Tube: Black CR Anti-Static Wrap
• Reinforcement: High tensile tire cord; Helix Wire
• Safety Factor: 4:1 min

FEATURES

- Designed for transfer of high temperature asphalt, tar & hot oils.
- Compounded for long wear resistance in handling of hard, sharp, abrasive materials; anti-static.

ID	OD	Length	Black, Synthetic Acrylic Rubber 150 PSI					
			Working PSI	Burst PSI	Bend Radius	lbs per ft	Part #	List ft.
2”	2.71”	100’ / 200'	150	600	10"	1.80	HTA 200	
3”	4.63”	100’ / 200'	150	600	15"	2.94	HTA 300	
4”	4.79”	100’ / 200'	150	600	20"	3.89	HTA 400	

*Hose construction may vary. Hoses might be supplied with 1 or 2 wires. This does not affect working/burst pressure.

FUEL OIL DELIVERY

SPECS

Temp Range: -40° F to +180° F
• Cover: Red, NBR compound
• Tube: Black, NBR compound
• Reinforcement: 2 braid polyester cord
• Safety Factor: 4:1 min

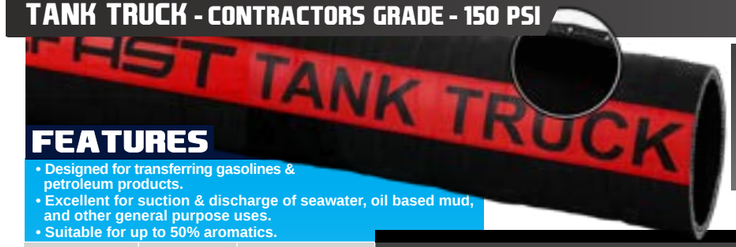
FEATURES

- General applications for transfer & delivery of fuels, oils, kerosene, diesel & other petroleum products

ID	OD	Length	RED NEOPRENE 250 PSI					
			Working PSI	Burst PSI	Bend Radius	lbs per ft	Part #	List ft.
1”	1.500”	100’ / 125’ / 150’ / 175’ / 200’	250	1000	---	n/a	FODH100	
1-1/4”	1.795”	100’ / 125’ / 150’ / 175’	250	1000	---	n/a	FODH125	
1-3/8”	1.874”	100’ / 125’ / 150’ / 175’	250	1000	---	n/a	FODH138	
1-1/2”	2.094”	100’ / 125’ / 150’ / 175’	250	1000	---	n/a	FODH150*	

*Hose construction may vary. Hoses might be supplied with 1 or 2 wires. This does not affect working/burst pressure.

TANK TRUCK - CONTRACTORS GRADE - 150 PSI



FEATURES

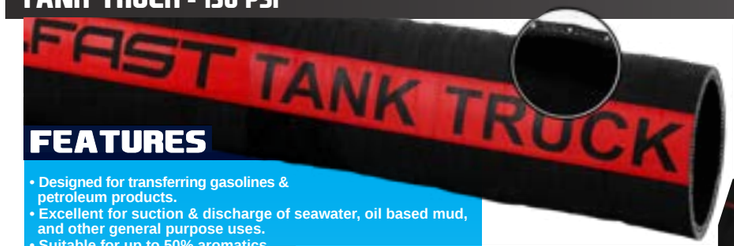
- Designed for transferring gasolines & petroleum products.
- Excellent for suction & discharge of seawater, oil based mud, and other general purpose uses.
- Suitable for up to 50% aromatics.

SPECS

- Temp Range: -20° F to +176° F
- Cover: Black, CR/Nitrile
- Tube: Nitrile Rubber
- Reinforcement: High tensile textile fabric; steel wire helix; anti-static copper wire
- Safety Factor: 3:1 min

ID	OD	Length	BLACK NITRILE BLEND / NITRILE 300 PSI					
			Working PSI	Burst PSI	Bend Radius	lbs per ft	Part #	List ft.
1-1/2”	1.9”	100’	150	450	9”	0.7	TT 150-E 100	
2”	2.5”	100’	150	450	12”	1.1	TT 200-E 100	
3”	3.5”	100’	150	450	18”	1.8	TT 300-E 100	
4”	4.6”	100’	150	450	24.1”	2.8	TT 400-E 100	
6”	6.6”	100’	150	450	35.9”	5.3	TT 600-E 100	
8”	8.7”	20’	150	450	48.2”	8.8	TT 800-E 20	

TANK TRUCK - 150 PSI



FEATURES

- Designed for transferring gasolines & petroleum products.
- Excellent for suction & discharge of seawater, oil based mud, and other general purpose uses.
- Suitable for up to 50% aromatics.

SPECS

- Temp Range: -22° F to +212° F
- Cover: Black, CR/Nitrile
- Tube: Nitrile Rubber
- Reinforcement: High tensile textile fabric; steel wire helix; anti-static copper wire
- Safety Factor: 3:1 min

ID	OD	Length	BLACK NITRILE BLEND / NITRILE 100-150 PSI					
			Working PSI	Burst PSI	Bend Radius	lbs per ft	Part #	List ft.
1”	1.46”	100’	150	450	4”	.67	TT 100 100	
1-1/4”	1.75”	100’	150	450	5”	.87	TT 125 100	
1-1/2”	2.01”	100’	150	450	6”	.94	TT 150 100	
2”	2.50”	100’ / 200’	150	450	8”	1.34	TT 200 100	
2-1/2”	3.03”	100’	150	450	10”	1.61	TT 250 100	
3”	3.54”	100’ / 200’	150	450	12”	2.02	TT 300 100	
4”	4.67”	100’ / 200’	150	450	16”	2.76	TT 400 100	
6”	6.65”	20’	150	450	24”	5.51	TT 600 100	
8”	8.88”	20’	100	300	32”	9.07	TT 800 100	

TANK TRUCK - 300 PSI

FEATURES

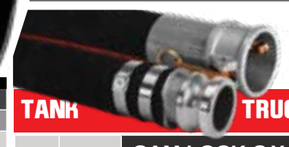
- Designed for transferring gasolines & petroleum products.
- Excellent for suction & discharge of seawater, oil based mud, and other general purpose uses.
- Suitable for up to 50% aromatics.

SPECS

- Temp Range: -22° F to +212° F
- Cover: Black, CR/Nitrile
- Tube: Nitrile Rubber
- Reinforcement: High tensile textile fabric; steel wire helix; anti-static copper wire
- Safety Factor: 3:1 min

ID	OD	Length	BLACK NITRILE BLEND / NITRILE 300 PSI					
			Working PSI	Burst PSI	Bend Radius	lbs per ft	Part #	List ft.
1-1/2”	2.01”	100’	300	900	6”	.94	TT 150-2 100	
2”	2.56”	100’	300	900	8”	1.41	TT 200-2 100	
3”	3.70”	100’	300	900	12”	2.42	TT 300-2 100	
4”	4.76”	100’	300	900	16”	3.36	TT 400-2 100	
6”	6.89”	100’	300	900	24”	6.72	TT 600-2 20	

*Hose construction may vary. Hoses might be supplied with 1 or 2 wires. This does not affect working/burst pressure.



TANK TRUCK ASSEMBLIES

ID	Length	CAM LOCK C X E - 316SS CRIMP SLEEVES - 304SS # of Bands	PART #	PRICE
2”	20’	2	TT20020CESSC	
3”			TT30020CESSC	

TANK TRUCK CORRUGATED - 150 PSI BLACK

FEATURES

- Designed for transfer of gasoline, oil & other petroleum based products where maximum flexibility is needed; excellent kink resistance.
- Excellent for suction & discharge of seawater, oil based mud, and other general purpose uses. • Suitable for up to 50% aromatics.

SPECS

- Temp Range: -22° F to +212° F
- Cover: Black, CR/Nitrile
- Tube: Nitrile Rubber
- Reinforcement: High tensile textile fabric; steel wire helix; anti-static copper wire
- Safety Factor: 3:1 min

ID	OD	Length	BLACK NITRILE BLEND / NITRILE 150 PSI					
			Working PSI	Burst PSI	Bend Radius	lbs per ft	Part #	List ft.
1-1/2”	2.64”	100’	150	450	2”	1.34	CTT 100 100	
2”	2.64”	100’	150	450	2”	1.34	CTT 200 100	
3”	3.66”	100’	150	450	3”	1.95	CTT 300 100	
4”	4.76”	100’	150	450	4”	2.96	CTT 400 100	
6”	”	100’	150	450	”	---	CTT	
8”	”	100’	150	450	”	---	CTT	

TANK TRUCK CORRUGATED - 150 PSI RED

FEATURES

- Designed for transfer of gasoline, oil & other petroleum based products where maximum flexibility is needed; excellent kink resistance.
- Excellent for suction & discharge of seawater, oil based mud, and other general purpose uses.
- Suitable for up to 50% aromatics.

SPECS

- Temp Range: -22° F to +212° F
- Cover: Black, CR/Nitrile
- Tube: Nitrile Rubber
- Reinforcement: High tensile textile fabric; steel wire helix; anti-static copper wire
- Safety Factor: 3:1 min

ID	OD	Length	RED NITRILE BLEND / NITRILE 150 PSI					
			Working PSI	Burst PSI	Bend Radius	lbs per ft	Part #	List ft.
1-1/2”	2.64”	100’	150	450	2”	1.34	CTT 100R 100	
2”	2.64”	100’	150	450	2”	1.34	CTT 200R 100	
3”	3.66”	100’	150	450	3”	1.95	CTT 300R 100	
4”	4.76”	100’	150	450	4”	2.96	CTT 400R 100	

*Hose construction may vary. Hoses might be supplied with 1 or 2 wires. This does not affect working/burst pressure.

CRUDE OIL SUCTION

SPECS
- Temp Range: -22° F to +212° F
- Cover: Black, CR/NBR
- Tube: CR/NBR
- Reinforcement: High tensile textile fabric; steel wire helix; anti-static copper wire
- Safety Factor: 3:1 min

FEATURES
- Designed for oilfield vacuum truck service. Tube & cover have resistance to crude oil.
- Recommended for CRUDE OIL ONLY. *NOT RECOMMENDED FOR REFINED PETROLEUM PRODUCTS.

ID	OD	Length	NITRILE BLEND 150 PSI					
			Working PSI	Burst PSI	Bend Radius	lbs per ft	Part #	List ft.
1-1/2”	1.89”	100’	150	450	7”	.80	COS 100	
2”	2.45”	100’	150	450	8”	1.00	COS 200	
2-1/2”	3.00”	100’	150	450	10”	1.26	COS 250	
3”	3.50”	100’	150	450	12”	1.80	COS 300	
4”	4.55”	100’	150	450	15”	2.30	COS 400	
6”	6.61”	20’	150	450	26”	5.00	COS 600	
8”	8.70”	20’	150	450	35”	7.60	COS 800	

CRUDE OIL SUCTION CORRUGATED

SPECS
- Temp Range: -22° F to +212° F
- Cover: Black, CR/NBR
- Tube: CR/NBR
- Reinforcement: High tensile textile fabric; steel wire helix; anti-static copper wire
- Safety Factor: 3:1 min

FEATURES
- Designed for oilfield vacuum truck service where extra flexibilty is needed; tube & cover are crude oil resistant.
- Recommended for CRUDE OIL ONLY. *NOT RECOMMENDED FOR REFINED PETROLEUM PRODUCTS.

ID	OD	Length	NITRILE BLEND 150 PSI					
			Working PSI	Burst PSI	Bend Radius	lbs per ft	Part #	List ft.
2”	2.64”	100'	150	450	8"	1.00	CCOS 200	
3”	3.66”	100'	150	450	12”	1.80	CCOS 300	
4”	4.76”	100'	150	450	15”	2.30	CCOS 400	

*Hose construction may vary. Hoses might be supplied with 1 or 2 wires. This does not affect working/burst pressure.

CRUDE OIL SUCTION - “FRAC HOSE”

SPECS
- **Temp Range:** -22° F to +212° F
- **Cover:** Black, CR/NBR
- **Tube:** CR/NBR
- **Reinforcement:** High tensile textile fabric; steel wire helix; anti-static copper wire
- **Safety Factor:** 3:1 min

FEATURES
- Designed for use as a frac-tank hose moving salt & fresh water, drilling muds, & crude oils.
- Corrugated for increased flexibility w/Soft Cuffs on each end for easy coupling.
- Recommended for CRUDE OIL ONLY. *NOT RECOMMENDED FOR REFINED PETROLEUM PRODUCTS.

ID	OD	Length	NITRILE BLEND 100 PSI					
			Working PSI	Burst PSI	Bend Radius	lbs per ft	Part #	List ft.
8”	8.66”	40”	100	300	35”	.79	COS 800 40	
	8.66”	48”	100	300	35”	.93	COS 800 48	
	8.66”	60”	100	300	35”	1.39	COS 800 60	

OIL DISCHARGE

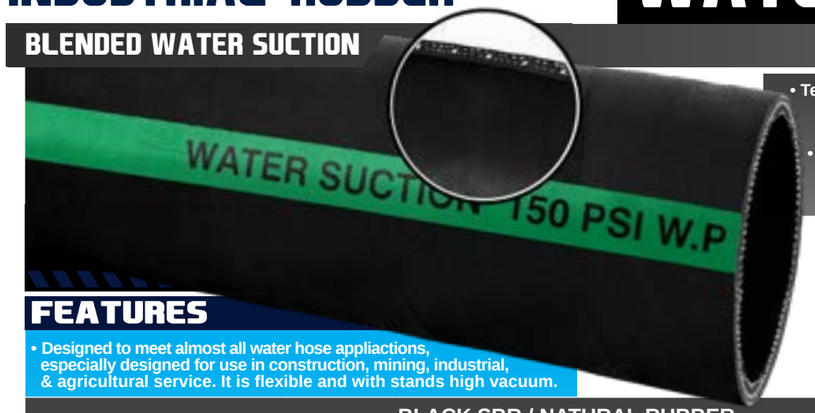
SPECS
- Temp Range: -22° F to +212° F
- Cover: Black, CR/NBR
- Tube: CR/NBR
- Reinforcement: High tensile textile fabric; anti-static copper wire
- Safety Factor: 3:1 min

FEATURES
- Designed for handling gasoline, diesel fuels, oil sludge, fuel oils & other petroleum products.
- It is a flexible & easy handling petroleum discharge hose complete with built-in-anti-static wire.

ID	OD	Length	RED NITRILE BLEND 200 PSI					
			Working PSI	Burst PSI	Bend Radius	lbs per ft	Part #	List ft.
1-1/2”	2.01”	100’	200	600	-	.79	ODH 150	
2”	2.48”	100’	200	600	-	.93	ODH 200	
3”	3.50”	100’	200	600	-	1.39	ODH 300	
4”	4.65”	100’	200	600	-	2.29	ODH 400	

*Hose construction may vary. Hoses might be supplied with 1 or 2 wires. This does not affect working/burst pressure.

BLENDED WATER SUCTION



SPECS
- Temp Range: -22° F to +180° F
- Cover: Black, NR/SBR
- Tube: Black, NBR/SBR
- Reinforcement: High tensile textile fabric; steel wire helix
- Safety Factor: 3:1

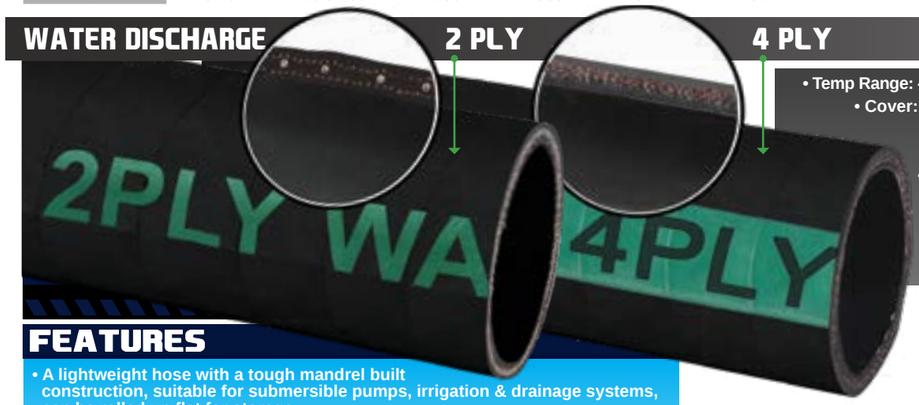
FEATURES
- Designed to meet almost all water hose appliactions, especially designed for use in construction, mining, industrial, & agricultural service. It is flexible and with stands high vacuum.

BLACK SBR / NATURAL RUBBER

100 - 150 PSI

ID	OD	Length	Working PSI (max)	Burst PSI	Weight Per ft.	Bend Radius	Part #	List ft.
1”	1.37”	100’	150	450	0.50	5”	CWS 100 100	
1-1/4”	1.65”	100’	150	450	0.60	5”	CWS 125 100	
1-1/2”	1.89”	50’ / 60’ /100’	150	450	0.82	6”	CWS 150 50	
2”	2.44”	50’ / 60’ /100’	150	450	1.01	8”	CWS 200 50	
2-1/2”	3.00”	50’ / 60’ /100’	150	450	1.50	10”	CWS 250 50	
3”	3.55”	50’ / 60’ /100’	150	450	1.75	12”	CWS 300 50	
4”	4.57”	50’ / 60’ /100’	100	300	2.40	16”	CWS 400 50	
6”	6.61”	20’ / 100’	100	300	4.84	24”	CWS 600 20	
8”	8.70”	20’ / 100’	100	300	8.10	32”	CWS 800 20	

WATER DISCHARGE 2 PLY 4 PLY



SPECS
- Temp Range: -22° F to +180° F
- Cover: Black, SBR/NR
- Tube: Black, SBR/NR
- Reinforcement: High tensile textile fabric
- Safety Factor: 3:1

FEATURES
- A lightweight hose with a tough mandrel built construction, suitable for submersible pumps, irrigation & drainage systems, can be rolled up flat for storage.

BLACK EPDM RUBBER

ID	Length	2 PLY OD	2 PLY Working PSI (max)	2 PLY Burst PSI	2 PLY Weight Per ft.	2 PLY Part #	2 PLY List Ft.	4 PLY OD	4 PLY Working PSI (max)	4 PLY Burst PSI	4 PLY Weight Per ft.	4 PLY Part #	4 PLY List Ft.
1-1/2	100’	1.93”	150	450	.71	DH 150-2		2.09”	200	600	.91	DH 150	
2”	100’	2.48”	150	450	1.01	DH 200-2		2.68”	200	600	1.28	DH 200	
2-1/2”	100’	3.03”	150	450	1.24	DH 250-2		3.19”	200	600	1.55	DH 250	
3”	100’	3.50”	150	450	1.51	DH 300-2		3.66”	200	600	1.88	DH 300	
4”	100’	4.61”	150	450	2.35	DH 400-2		4.80”	200	600	2.82	DH 400	
6”	100’	6.58”	100	300	3.43	DH 600-2		6.73”	200	600	4.07	DH 600	
8”	100’	8.70”	75	225	5.58	DH 800-2		8.86”	150	450	6.42	DH 800	
10”	50’	10.71”	60	180	6.89	DH 1000-2		10.91”	115	345	7.93	DH 1000	
12”	50’	12.72”	40	120	8.23	DH 1200-2		12.91”	100	300	9.47	DH 1200	

*Hose construction may vary. Hoses might be supplied with 1 or 2 wires. This does not affect working/burst pressure.

PRESSURE WASH - 4000 & 6000 PSI

SPECS
- Temp Range: -20° F to +250° F
- Cover: Black EPDM rubber, smooth wrap finish
- Tube: EPDM Rubber
- Reinforcement: 1 wire braid
- Safety Factor: 3:1

FEATURES
- Pressure washer hose w/Single braid.
- Tested hydrostatiy.
- Bend restrictors on each end w/Male solid by male swivel.

EPDM RUBBER

ID	OD	Length	Color	4000 PSI Working PSI	4000 PSI Burst PSI	4000 PSI lbs per ft	Assemblies (M X M) Part #	Assemblies (M X M) List ft.
3/8”	0.69”	50’	Black	4000	12000	0.24	PW40003850CL	
		100’	Black	4000	12000	0.24	PW400038100CL	
		50’	Blue	4000	12000	0.24	PW40003850BLCL	
		100’	Blue	4000	12000	0.24	PW400038100BLCL	
1/2”	0.81”	50’	Black	4000	12000	0.24	PW40005050CL	
		100’	Blue	4000	12000	0.24	PW400050100CL	

Color	6000 PSI Working PSI	6000 PSI Burst PSI	6000 PSI lbs per ft	Assemblies (M X M) Part #	Assemblies (M X M) List ft.
Black	6000	18000	0.24	PW60003850CL	
	6000	18000	0.24	PW600038100CL	
Blue	6000	18000	0.24	PW60003850BLCL	
	6000	18000	0.24	PW600038100BLCL	

HOSE BEND RESTRICTORS HB SERIES

Size	A	B	C	Part #	List ft.
1/4”	0.67”	0.76”	5.74”	HB 40	
3/8”	0.75”	0.85”	6.43”	HB 60	
1/2”	0.82”	0.93”	6.93”	HB 80	

GARDEN FLEX

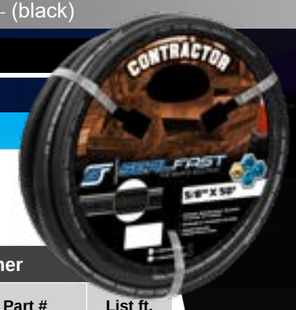
SPECS
- Temp Range: -40° F to +180° F
- Cover: Green Premium Hybrid Polymer

FEATURES
- Kink resistant under pressure & abrasion resistant.

Green Premium Hybrid Polymer

ID	Length	Working PSI (max)	Part #	List ft.
5/8”	50’	125	GFH058050	
	100’	125	GFH058100	

RUBBER GARDEN HOSE - (black)



FEATURES
- Oil resitant jacket

Black Premium Hybrid Polymer

ID	Length	Working PSI (max)	Part #	List ft.
5/8”	50’	125	RGH058050	
	100’	125	RGH058100	
3/4”	50’	125	RGH075050	
	100’	125	RGH075100	
1”	50’	125	RGH100050	

OCTAGON RUBBER GARDEN HOSE - (black)

FEATURES
- Octagonal shape for reduced kinking
- Oil resitant jacket

Rubber/PVC Blend

ID	Length	Working PSI (max)	Part #	List ft.
5/8”	50’	125	ORGH058050	

*Hose construction may vary. Hoses might be supplied with 1 or 2 wires. This does not affect working/burst pressure.

CORROSION RESISTANCE OF COUPLING MATERIALS

CAUTION: The following data has been compiled from generally available sources end should not be relied upon without consulting and following the specific recommendations of the manufacturer regarding particular coupling materials.

RATINGS: 1. Excellent 2. Good 3. Fair Conditional x. Not Satisfactory **NOTES:** No rationg indicates no data available

AGENT	Mall. From Steel	Brass	Bronze	Aluminum	Glass	Stainless 410, 416, 430	Stainless 302, 202, 304, 308	Stainless 316	Monel
Acetate, Solvents, Crude		3				2	1	1	2
Acetate, Solvents, Pure		1	1	1		1	1	1	1
Acetic Acid	X	X	X	2	1	X	2	2	2
Acetic Acid Vapor	X	X		3		X	2	2	3
Acetic Anhydride	X	X		2		X	2	2	2
Acetone	1	1	1	1	1	1	1	1	1
Acetylene	1	2		1		1	1	1	2
Alcohols	1	2		1		1	1	1	1
Aluminum Sulfate	X	3	3	3	1	X	3	2	2
Alums	X	3	2	3	1	X	3	2	2
Ammonia Gas	1	X	3	1	3	1	1	1	X
Ammonium Chloride	1	3		1*		3	3	1	1
Ammonium Hydroxide	2	X		2		1	1	1	3
Ammonium Nitrate	1	X		2		1	1	1	3
Ammonium Phosphate (Ammoniacal)		X				1	1	1	2
Ammonium Phosphate (Neutral)		3				1	1	1	2
Ammonium Phosphate (Acid)		3				3	2	1	2
Ammonium Sulfate	1	3				2	1	1	2
Asphalt	1	2				2	1	1	1
Beer	2	2	1	1		X	1	1	1
Beet SugarLiquors	1	2		1		2	1	1	1
Benzene, Benzol	1	1	1	1	1	1	1	1	1
Benzine (petroleum-naphtha)	1	1		1		1	1	1	1
Borax	2	2				1	1	1	1
Boric Acid	X	3		1		3	2	1	1
Butane, Butylene	1	1	1	1		1	1	1	1
Butadiene		1				1	1	1	1
Calcium Bisulfate		X				X	2	1	X
Calcium Hypochlorite	3	3	3	X	3	X	3	2	3
Cane Sugar Liquors	1	2		1		2	1	1	1
Carbon Dioxide (Dry)	1	1		1		1	1	1	1
Carbon Dioxide (Wet & Aqueous Sol)	2	3		2		2	1	1	2
Carbon Disulfide	2	3		2		2	1	1	3
Carbon Tetrachloride	3	1	2	3	1	1	1	1	1
Chlorine (Dry)	2	2	2	1	2	2	2	2	1
Chlorine (Wet)	X	X	3	X	2	X	X	3	3
Chromic Acid		X	X	X	1	3	2	2	3
Citric Acid	X	3		1		3	X	1	2
Coke Oven Gas	1	3		2		1	1	1	2
Copper Sulfate	X	X		X		1	1	1	3
Core Oils		1	1			1	1	1	1
Cottonseed Oil	1	1	1	1		1	1	1	1
Creosote	2	3		1		1	1	1	1
Ethers	2	1		1		1	1	1	1
Ethylene Glycol	2	2				1	1	1	1
Ferric Chloride	X	X	X	X	1	X	X	X	X
Ferric Sulfate	X	X		X		1	1	1	3
Formaldehyde	2	2		2		1	1	1	1

*3 to X at high temperatures.

Chemical Chart is reprinted from 1996 RMA Hose Handbook

TECHNICAL DATA

CORROSION RESISTANCE OF COUPLING MATERIALS

CAUTION: The following data has been compiled from generally available sources end should not be relied upon without consulting and following the specific recommendations of the manufacturer regarding particular coupling materials.

RATINGS: 1. Excellent 2. Good 3. Fair Conditional x. Not Satisfactory **NOTES:** No rationg indicates no data available

AGENT	Mall. From Steel	Brass	Bronze	Aluminum	Glass	Stainless 410, 416, 430	Stainless 302, 202, 304, 308	Stainless 316	Monel
Formic Acid	X	2		X		X	2	1	2
Freon	3	1	1	1		1	1	1	1
Furfural	1	2		1		1	1	1	1
Gasoline (Sour)	3	3		3		3	1	1	X
Gasoline (Refined)	1	1	1	1		1	1	1	1
Gelatin	1	3		1		1	1	1	1
Glucose	1	1		1		1	1	1	1
Glue	1	3		1		1	1	1	1
Glycerine or Glycerol	1	2		1		1	1	1	1
Hydrochloric Acid	X	X	X	X	1	X	X	X	X
Hydrocyanic Acid	3	X		1		3	1	1	2
Hydrofluoric Acid	X	3	3	X	X	X	X	X	X
Hydrogen Fluoride		3				X	X	3	1
Hydrogen	1	1		1		1	1	1	1
Hyrogen Peroxide	X	X		1		1	2	1	2
Hydrogen Sulfide (Dry)	3	3		2		3	2	1	3
Hydrogen Sulfide (Wet)	3	3		2		3	2	1	3
Lacquers and Lacquer Solvents	3	2		1		1	1	1	1
Lactic Acid	X			3			3	2	1
Lime-Sulfur	2	X		2		1	1	2	
Linseed Oil	1	1		1			1	1	1
Magnesium Chloride	3	3		X		3	2	1	1
Magnesium Hydroxide	1	2		X		1	1	1	1
Magnesium Sulfate	2	2		3		1	1	1	1
Mercuric Chloride	3	X		X		X	X	3	X
Mercury	1	X		X		1	1	1	2
Milk	3	3		1		2	1	1	3
Molasses	2	X		2		2	1	1	1
Natural Gas	1	2		1		1	1	1	1
Nickel Chloride		X		X		X	3	2	2
Nickel Sulfate		3		X		3	2	1	1
Nitric Acid	X	X	X	3	1	2	2	2	X
Oleic Acid	2	3		1		2	2	1	1
Oxalic Acid	3	3		2		3	2	1	1
Oxygen	1	1	1	1		1	1	1	1
Palmitic Acid	1	3		1		2	2	1	1
Petroleum Oils (Sour)		3				3	1	1	X
Petroleum Oils (Refined)	1	1	1	1		1	1	1	1
Phosphoric Acid 25%	3	X		3	3	X	3	1	2
Phosphoric Acid 25-50%	X	X		X	3	X	X	2	2
Phosphoric Acid 50-85%	X	X		X	X	X	X	2	2
Picric Acid	3	X		3		2	1	1	X
Potassium Chloride	2	3		3		3	2	1	1
Potassium Hydroxide	3	X		X		1	1	1	1
Potassium Sulfate	2	2		1		1	1	1	1
Propane	1	1				1	1	1	1
Rosin (Dark)	1	2			1	1	1	1	1
Rosin (Light)		X		1		1	1	1	2

*3 to X at high temperatures.

Chemical Chart is reprinted from 1996 RMA Hose Handbook

CORROSION RESISTANCE OF COUPLING MATERIALS

CAUTION: The following data has been compiled from generally available sources end should not be relied upon without consulting and following the specific recommendations of the manufacturer regarding particular coupling materials.

RATINGS: 1. Excellent 2. Good 3. Fair Conditional x. Not Satisfactory **NOTES:** No rationg indicates no data available

AGENT	Mall. From Steel	Brass	Bronze	Aluminum	Glass	Stainless 410, 416, 430	Stainless 302, 202, 304, 308	Stainless 316	Monel
Shellac		2		2		1	1	1	1
Sludge Acid		X				X	X	3	2
Soda Ash (Sodium Carbonate)	1	2		X		1	1	1	1
Sodium Bicarbonate	3	1		X		1	1	1	1
Sodium Bisulfate	X	3		3		X	1	1	1
Sodium Chloride	2	3	2	X	1	3	2	1	1
Sodium Cyanide	2	X		X		1	1	1	2
Sodium Hydroxide	3	X	3	X	X	2	2	2	1
Sodium Hypochlorite	X	X		X		X	3	2	3
Sodium Metaphosphate	X	3		1		2	1	1	1
Sodium Nitrate	1	3		1		1	1	1	1
Sodium Perborate	3	3		1		1	1	1	1
Sodium Peroxide	3	3		1		1	1	1	1
Sodium Phosphate (Alkaline)		3				1	1	1	1
Sodium Phosphate (Neutral)		2				1	1	1	1
Sodium Phosphate (Acid)		2				X	2	1	1
Sodium Silicate	1	3		X		1	1	1	1
Sodium Sulfate	1	2		3		1	1	1	1
Sodium Sulfide	1	X				1	1	1	2
Sodium Thiosulfate (Hypo)	3	X		X		1	1	1	2
Stearic Acid	3	3		3		2	2	1	1
Sulfate Liquors		X				1	1	1	2
Sulfur	2	X		2		2	2	1	3
Sulfur Chloride	X	X				X	3	2	2
Sulfur Dioxide (Dry)	2	1		1		1	1	1	1
Sulfur Dioxide (Wet)		X				X	2	1	X
Sulfuric Acid 10%	X	X	3	3		X	X	2	2
Sulfuric Acid 10-75%	X	X	X	X		X	X	X	2
Sulfuric Acid 75-95%	3	X	X	X		3	3	2	3
Sulfuric Acid 95%	2	X	X			2	2	2	X
Surlfurous Acid	X	X		X		X	3	2	X
Tannic Acid	3	3	1	X			1	1	1
Tar	1	2		1		2	1	1	1
Toluene, Toluol	1	1		1		1	1	1	1
Trichlorethylene	3	1		3		1	1	1	1
Turpentine		3		1		3	1	1	1
Varnish	2	2				1	1	1	1
Vegetable Oils	1	2		1		1	1	1	1
Vinegar	3	3		3		3	2	1	2
Water (Acid Mine Water)	3	X		3		2	1	1	3
Water (Fresh)	3	1		1		1	1	1	1
Water (Salt)	3	3	2	X		3	2	2	1
Whiskey	X	2				3	1	1	2
Wines	X	2				3	1	1	2
Xylene, Xylol	2	1		1		1	1	1	1
Zinc Chloride	X	X		X		3	2	1	1
Zinc Sulfate	3	3		3		3	2	1	1

*3 to X at high temperatures.

Chemical Chart is reprinted from 1996 RMA Hose Handbook

TECHNICAL DATA

OIL & GASOLINE RESISTANCE

Rubber hose is used to convey petroleum products both in the crude and refined stages. The aromatic content of refined gasoline is often adjusted to control the octane rating. The presence of aromatic hydrocarbons in this fuel generally has a greater effect on rubber components than do aliphatic hydrocarbons. Aromatic materials in contact with rubber tend to soften it and reduce its physical properties. For long lasting service, the buyer of gasoline hose should inform the hose manufacturer of the aromatic content of the fuel to be handled so that the proper tube compound can be recommended for the specific application.

The effects of oil on rubber depend on a number of factors that include the type of rubber compound, the composition of the oil, the temperature and time of exposure. Rubber compounds can be classified as to their degree of oil resistance based on their physical properties after exposure to a standard test fluid. In this RMA classification, the rubber samples are immersed in IRM 903 oil at 100°C for 70 hours. (See ASTM Method D-471 for a detailed description of the oil and the testing procedure.) As a guide to the user of hose in contact with oil, the oil resistance classes and a corresponding description are listed.

PHYSICAL PROPERTIES AFTER EXPOSURE TO OIL:

		VOLUME CHANGE MAXIMUM	TENSILE STRENGTH RETAINED
CLASS A	(HIGH OIL RESISTANCE)……....	**+25%**	**80%**
CLASS B	(MEDIUM/HIGH OIL RESISTANCE)……....	**+65%**	**50%**
CLASS C	(MEDIUM OIL RESISTANCE)……....	**+100%**	**40%**

CHEMICAL RECOMMENDATIONS

The materials being handled by flexible rubber hose are constantly increasing in number and diversity. T o assist in the selection of the proper elastomer for the service conditions encountered, the following table has been prepared. The reader is cautioned that it is only a guide and should be used as such, as the degree of resistance of an elastomer with a particular fluid depends upon such variables as temperature, concentration, pressure, velocity of flow, duration of exposure, aeration, stability of the fluid, etc. Also variations in elastomer types and special compounding of stocks to meet specific service conditions have considerable influence on the results obtained. When in doubt, it is always advisable to test the tube compound under actual service conditions. If this is not practical, tests should be devised that simulate service condtions or the hose manufacturer contacted for Recommendations.

The following table lists the more commonly used materials, chemicals, solvents, oils, etc. The recommendation are based on room temperature and pressure conditions normally recommended for the particular type of hose being used. Where conditions beyond this can be met readily, they have been so indicated; where conditions are not normal and cannot be readily met, the hose manufacturer should always be consulted. The table does not imply conformance to the Food & Drug Administration requirements of Federal or State Laws when handling food products.

TABLE OF CHEMICAL, OIL & SOLVENT RESISTANCE OF HOSE:

WARNING: The following data has been compiled from generally available sources and should not be relied upon without consulting and following the hose manufacturer's specific chemical recommendations. Neglecting to do so might result in failure of the hose to fulfill its intended purpose, and may result in possible damage to property and serious bodily injury.

RESISTANCE RATING

A - Good Resistance, usually suitable for service.

F - Fair Resistance, the chemical has some deteriorative effects, but the elastomer is still adequate for moderate service.

C- Depends on Condition, moderate service may be possible if chemical exposure is limited or infrequent.

X- Not recommended, unsuitable for service.

I - Insufficient Information, not enough data available at the time of publication to determine rating.

RELASTOMERS/PLASTICS

NR- Natural Rubber
IR - Isoprene, synthetic
SBR - Styrene-butadiene
CR- Chloroprene
NBR - Nitrile-butadiene
IIR- Isobutene-isoprene
CSM - Chloro-sulfonyl-polyethylene
EPDM - Ethylene-propylene-diene-terpolymer
MQ - Dimethyl-polysiloxane
FKM- Fluoracarbon rubber
CM - Chloro-polyethylene
ECO/CO- Ephichlorohydrin
EXLPE- Chloro-sulfonyl-polyethylene

ELASTOMERS

Commonly used Elastomers: **Special Elastomers:**

MATERIAL	NR lor IR	SBR	CR	NBR	IIR	CSM	EPDM	MQ	FKM	CM	ECO CO	XLPE
	(Maximum Temperature 100° F (38°C) Unless Otherwise Specified											
Acetic Acid, Dilute, 10%	F	C	C	C	A	C	A	A	X	A	F	A
Glacial	C	X	X	X	F	C	F	F	X	A	X	A
Anhydride	C	C	F	F	F	A	I	C	X	A	X	A
Acetone	A	A	F	X	A	F	A	A	X	A	X	A
Acetylene	A	A	F	A	A	F	A	C	A	I	I	I
Air 150°F (65°C)	A	A	A	A	A	A	A	A		A	A	A
Aluminum Chloride 150°F (65°C)	A	A	A	A	A	A	A	A	A	A	A	A
Aluminum Fluoride 150°F (65°C)	A	A	A	A	A	A	A	F			A	A
Aluminum Sulfate 150°F (65°C)	A	A	A	A	A	A	A	A	A	A	I	A
Alums 150°F (65°C)	A	A	A	A	A	A	A	A		A	I	A
Ammonia Gas	A	A	A	A	A	A	A	A	X	A	I	A
Ammonium Chloride	A	A	A	A	A	A	A	C	A	A	A	A
Ammonium Hydroxide	C	F	F	F	A	A	A	A	A	A	I	A
Ammonium Nitrate	A	A	A	A	A	A	A	A		I	A	A
Ammonium Phosphate, monobasic	A	A	A	A	A	A	A	A		A	I	A
dibasic	A	A	A	A	A	A	A	A		I	I	A
tribasic	A	A	A	A	A	A	A	A		I	I	A
Ammonium Sulfate	A	A	A	A	A	A	A	A	A	A	I	A
Amyl Acetate	F	X	X	X	F	X	A	A	X	C	X	A
Amyl Alcohol	A	A	A	A	A	A	A	A	A	A	A	A
Aniline, Aniline Oil	X	X	C	X	A	X	C	C	A	C	X	A
Aniline Dyes	F	F	F	F	A	F	C	C			I	I
Asphalt	X	X	F	F	X	F	X		A		A	X
Barium Chloride 150°F (65°C)	A	A	A	A	A	A	A	A	A	A	A	A
Barium Hydroxide 150°F (65°C)	A	A	A	A	A	A	A	A	A	A	A	A
Barium Sulfide 150°F (65°C)	A	A	A	A	A	A	A	A	A	I	A	A
Beer	A	A	A	A	A	A	A	A	A	I	A	A
Beet Sugar Liquors	A	A	A	A	A	A	A	A	A	I	I	A
Benzene, Benzol	X	X	X	C	X	X	X	C	A	C	X	A
Benzine, petroleum ether and												
Benzine, petroleum naphtha	X	X	C	F	X	F	X	C	A		I	A
Black Sulfate Liquor	A	A	A	A	A	A	A	A		I	I	A
Blast Furnace Gas	C	C	A	C	C	C	C	C	A	I	I	A
Borax	A	A	A	A	A	A	A	A	A	I	I	A
Boric Acid	A	A	A	A	A	A	A	A	A	I	A	A
Bromine	X	X	X	X	X	C	X	F	A	C		F
Butane	X	X	F	A	X	A	X	A	A	A	A	A
Butyl Acetate	C	X	X	X	F	X	F	A	X	F	X	A
Butyl alcohol, butanol	A	A	A	A	A	A	A	A	A	F	I	A
Calcium bisulfate	C	C	A	A	F	A	F	C	A	A	I	A
Calcium chloride	A	A	A	A	A	A	A	A	A	A	A	A
Calcium hydroxide	A	A	A	A	A	A	A	A	A	A	A	A
Calcium hypochlorite	X	X	X	X	A	F	A	C	A	A	F	F
Caliche liquors	A	A	A	A	A	A	A				I	A
Cane sugar liquors	A	A	A	A	A	A	A	A	A	A	A	A
Carbolic acid, phenol	C	C	C	C	C	C	A	A	A	A		A

Chart is reprinted from 1996 RMA Hose Handbook

TECHNICAL DATA

ELASTOMERS

Commonly used Elastomers: **Special Elastomers:**

MATERIAL	NR lor IR	SBR	CR	NBR	IIR	CSM	EPDM	MQ	FKM	CM	ECO CO	XLPE
	(Maximum Temperature 100° F (38°C) Unless Otherwise Specified											
Carbon dioxide, dry/wet	A	A	A	A	A	A	A	A	A	A	A	A
Carbon disulfide	X	X	X	X	X	X	X	C	A	C		C
Carbon monoxide 150°C (65°C)	C	C	C	C	C	F	C	A	A	I		A
Carbon tetrachloride	X	X	X	C	X	X	X	C	A	C	F	A
Castor oil	A	A	A	A	A	A	A	A	A	A	A	A
Cellosolve acetate	F	F	X	X	A		A	C	C			A
CFC-12	X	X	A	A	F		F	X	A		A	I
China wood oil, tung oil	X	X	F	A	A	F	A	A	C		I	A
Chlorine, dry/wet	X	X	X	X	X	X	X	X	C	X	X	F
Chlorinated solvents	X	X	X	X	X	X	X	C	C	C		A
Chloroacetic acid	X	C	C	C	X	A	I	C	X			A
Chlorosulfonic acid	X	X	C	C	X	X	X	C	X			F
Chromic acid	X	X	X	X	C	A	I	C	C	A		F
Citric acid	A	A	A	F	A	A	A	A	A	A	A	A
Coke oven gas	C	C	C	C	C	A		A	X	A	X	C
Copper chloride 150°F (65°C)	C	A	F	A	A	F	A	A	A	A	I	A
Copper sulfate 150°F (65°C)	C	A	A	A	F	A	A	A	A	A	A	A
Corn oil	X	C	F	A	A	F	C	A	A	A	A	A
Cottonseed oil	X	C	F	A	A	F	C	A	A	A	I	A
Creosote, coal tar	X	X	F	A	X	F	X	C	F		X	A
Wood	X	X	F	A	X		X	C	A			A
Creosols, cresylic acid	C	X	X	C	C	F	X	C		F		A
Ethers	C	C	C	C	C	F	X	C	X	A		A
Ethyl acetate	F	X	X	X	F	X	F	F	X	F	X	A
Ethyl alcohol	A	A	A	A	A	A	A	A	A	A	A	A
Ethyl cellulose	F	F	F	F	F		F	C	X	F		A
Ethyl chloride	A	F	F	X	A	F	A	C	F	F	F	F
Ethylene glycol	A	A	A	A	A	A	A	A	A	A	A	A
Ferric chloride 150°F (65°C)	A	A	A	A	A	A	A	A	I	A	A	A
Ferric Sulfate 150°F (65°C)	A	A	A	A	A	A	A	A	A	A	A	A
Formaldehyde	A	A	C	A	A	A	A	A	A	A	F	A
Formic acid	A	A	C	F	A	A	A	A	X	A	F	F
Fuel oil	X	X	A	A	X	F	X	C	A	F	A	A
Furfural	X	C	C	X	A	F	C	C	X	A	X	A
Gasoline, Non Leaded	X	X	X	A	X	X	X		A	C	A	A
Gasoline, + MTBE	X	X	X	A	X	X	X	C	A	C	A	A
Hi-test-+ MTBE	X	X	X	A	X	X	X	C	A	C	A	A
Gelatin	A	A	A	A	A	A	A	A	A		A	A
Glucose	A	A	A	A	A	A	A	A	A		A	A
Glue	F	F	A	A	F	A	A	A	C		A	A
Glycerine, glycerol	A	A	A	A	A	A	A	A	A	A	A	A
Green sulfate liquor	A	A	A	A	A	A	A	A	A	A	A	A
HFC-134A	F	X	A	A	A	F	A		X	F		A

Chart is reprinted from 1996 RMA Hose Handbook

ELASTOMERS

Commonly used Elastomers: **Special Elastomers:**

MATERIAL	NR lor IR	SBR	CR	NBR	IIR	CSM	EPDM	MQ	FKM	CM	ECO CO	XLPE
	(Maximum Temperature 100° F (38°C) Unless Otherwise Specified											
Hydraulic fluids												
Petroleum	X	X	A	A	X	F	X			A	A	
Phosphate ester alkyl	X	X	C	X	A	X	A			A	X	
Phosphate ester arly	X	X	X	X	C	X	C			C	X	
Phosphate ester blends		X	X	X	X	X	X	C			C	X
Silicate ester	X	X	C	C	X	C	X			C	C	
Water-Glycol	A	A	A	A	A	A	A		A	A	A	
Hydrobromic acid	C	X	C	C	A	A	A	C	A	A		I
Hydrochloric acid	A	X	X	X	C	C	C	C	A	A	X	A
Hydrocyanic acid	F	F	C	F	C	A	C	A	A			A
Hydrofluoric acid	X	X	X	X	C	A	C	X	A	A		A
Hydrofluosilicic acid	A	F	F	F	A		A	A	A	A		I
Hydrogen Gas	F	F	A	A	A		A	A	A		A	A
Hydrogen peroxide	X	X	C	C	C	C	C	A	A	A		I
Hydrogen sulfide, dry	C	C	F	C	A	A	A	C	F			A
wet	C	C	F	C	A	A	A	C	C		F	A
Kerosene	X	X	F	A	X	C	X	C	A	A	A	A
Lacquers	X	X	X	X	C	X	X		X		X	F
Lacquers solvents	X	X	X	X	C	X	X		X		X	F
Lactic acid	C	C	C	C	C	A	C	A	A			A
Linseed oil	C	X	F	A	A	A	A	A	A	A	A	A
Lubricating oil, crude	X	X	F	A	X	C	X	C	A		A	A
refined	X	X	F	A	X	C	X	C		A	A	A
Magnesium chloride 150°F (65°C)	A	A	A	A	A	A	A	A	A	A	A	A
Magnesium hydroxide 150°F (65°C)	A	F	F	F	A	A	A	F	A	A	A	A
Magnesium sulfate 150°F (65°C)	A	A	A	A	A	A	A	A	A	A	A	A
Mercuric chloride	F	F	C	F	A	A	A	A	A		A	A
Mercury	A	A	A	A	A	A	A	A	A		A	A
Methyl alcohol, methanol	A	A	A	A	A	A	A	A	C	A	F	A
Methyl chloride	C	C	C	C	C	X	C	X	A			F
Methyl ethly ketone	X	X	X	X	F	C	A	C	X	C	X	A
Methyl isopropyl ketone	X	X	X	X	F	C	C	C	X	F	X	A
MTBE												A
Milk	C	C	F	F	A	A	A	A	A	A	A	A
Mineral oils	X	C	F	A	X	F	X	A	A	A	A	A
Natural gas	C	C	A	A	C	A	X	C	A	A	A	A
Nickel chloride 150°F (65°C)	A	A	A	A	A	A	A	A	A	A	I	A
Nickel sulfate 150°F (65°C)	A	A	A	A	A	A	A	A	A	A	I	A
Nitric acid, crude	X	X	X	X	C	C	X	X	C	A	X	F
Diluted 10%	X	X	C	X	C	C	X	X	C	A	X	F
Concentrated 70%	X	X	X	X	C	C	X	X	C	X	X	F
Nitrobenzene	X	X	X	X	X	X	X	C	F	C	X	A
Oleic acid	X	F	C	F	F	F	F	A	C	A		A
Oleum spirits	X	C	C	C			I		C			I

Chart is reprinted from 1996 RMA Hose Handbook

TECHNICAL DATA

ELASTOMERS

Commonly used Elastomers: **Special Elastomers:**

MATERIAL	NR lor IR	SBR	CR	NBR	IIR	CSM	EPDM	MQ	FKM	CM	ECO CO	XLPE
	(Maximum Temperature 100° F (38°C) Unless Otherwise Specified											
Oxalic acid	F	C	F	F	A	A	A	A	A	A	F	A
Oxygen	F	C	A	C	A		A	A	A	A	F	A
Palmitic acid	X	F	A	A	F	F	F	C	A	A	F	A
Perchlorethylene	X	X	X	C	X	X	X	C	A	C	F	A
Petroleum oils and crude 200°F (95°C)	X	X	F	A	X	C	X	C	A	C	F	A
Phosphoric acid, crude	A	C	C	C	C	A	C	C	A	A		A
pure 45%	A	C	C	C	C	A	C	C	A	A		I
Picric acid, molten	C	C	C	C	C		I					I
water solution	A	C	F	F	A	A	I	A	A			I
Potassium chloride	A	A	A	A	A	A	A	A	A	A	A	A
Potassium cyanide	A	A	A	A	A	A	A	A	A	A	A	A
Potassium hydroxide	F	F	C	C	A	A	A	A	C	A	A	A
Potassium sulfate	A	A	A	A	A	A	A	A	A	A	A	A
Propane	X	X	F	A	X	F	X	A	A	A	A	A
Sewage	C	C	F	A	C	A	C	C	A		I	A
Soap solutions	A	A	F	A	A	A	A	A	A	A	A	A
Soda ash, sodium carbonate	A	A	A	A	A	A	A	A	A	A	A	A
Sodium bicarbonate, baking soda	A	A	A	A	A	A	A	A	A	A	A	A
Sodium bisulfate	A	A	A	A	A	A	A	A	A	A	A	A
Sodium chloride	A	A	A	A	A	A	A	A	A	A	A	A
Sodium cyanide	A	A	A	A	A	A	A	A	A	A	A	A
Sodium hydroxide	F	F	C	C	A	C	A	A	C	A	F	A
Sodium hypochlorite	X	X	X	X	A	F	A	C	A	A	F	F
Sodium metaphosphate	A	A	C	A	A	F	A	A	A	A	I	A
Sodium nitrate	C	C	C	C	A	A	A	C		A	A	A
Sodium perborate	C	C	C	C	A	A	A	A	A			A
Sodium peroxide	C	C	C	C	A	A	A	C	A			A
Sodium phosphate.monobasic	A	F	C	F	A	A	A	A	A	A		A
dibasic	A	F	C	F	A	A	A	A				A
tribasic	A	F	C	F	A	A	A	A				A
Sodium silicate	A	A	A	A	A	A	A	A	A	A	I	A
Sodium sulfate	A	A	A	A	A	A	A	A	A	A	A	A
Sodium sulfide	A	A	A	A	A	A	A	A	A	A	I	A
Sodium thiosulfate, “hypo”	A	A	A	A	A	A	A	A	A	A	I	A
Soybean oil	X	C	F	A	A	A	A	A	A	A	A	A
Stannic chloride	A	A	A	A	F	A	F	A	A	A	I	A
Steam 450°F (230°C)	C	C	C	C	A	A	F	C	X		X	X
Stearic acid	X	X	C	F	F	C	F	A	I		F	A
Sulfur	F	F	A	F	A	A	A	F	A		F	C
Sulfur chloride	X	X	C	C	X	A	X	C	A			A
Sulfur dioxide , dry	C	C	C	C	C	A	C	A	A		I	I
Sulfur trioxide, dry	X	C	C	C	C	F	C	A	A			I
Sulfuric acid, 10%	A	A	A	A	A	A	A	A	A	A	A	A

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TECHNICAL DATA

ELASTOMERS

Commonly used Elastomers: **Special Elastomers:**

MATERIAL	NR lor IR	SBR	CR	NBR	IIR	CSM	EPDM	MQ	FKM	CM	ECO CO	XLPE
	(Maximum Temperature 100° F (38°C) Unless Otherwise Specified											
11%-75%	C	C	C	C	F	A	C	C	A	A	F	A
76%-95%	X	X	X	X	C	A	X	X	A	X	X	A
fuming	X	X	X	X	X	X	X	X	X	X	X	X
Sulfurous acid	C	C	C	C	C	A	C	C	A	A	C	A
Tannic acid	A	C	A	C	A	A	A	A	A	A	I	A
Tar	X	X	C	C	X	C	X	C	F		F	X
Tartaric acid	A	C	C	C	F	A	F	A	A	A	F	A
Toluene, toluol	X	X	X	C	X	X	X	C	A	C	X	A
Trichloroethylene	X	X	X	X	X	X	X	C	A	C	X	A
Turpentine	X	X	X	F	X	X	X	C	A	F	A	A
Vinegar	C	C	C	C	A	A	A	A	A	A		A
Water, acid mine	A	A	C	A	A	A	A	A	A	A	I	A
Water, fresh	A	A	C	A	A	A	A	A	A	A	A	A
distilled	A	A	C	A	A	A	A	A	A	A	A	A
Whiskey and wines	A	A	A	C	A	A	A	A	A	A	I	A
Xylene.xylol	X	X	X	C	X	X	X	C	A	X	X	A
Zinc chloride	C	C	C	C	A	A	A	A	A	A	I	A
Zinc sulfate	A	A	A	A	A	A	A	A	A	A	I	A

NOZZLES - SPECS

Nozzle Style & Size	Inlet PSI	Pressure KPA	Straight GPM	Stream IPM	30 GPM	30 IPM	60 GPM	60 IPM	90 GPM	90 IPM
	50	345	18	68	21	79	24	91	27	102
10464	75	517	22	83	25	95	28	106	32	121
1”	100	690	24	91	28	106	32	121	36	136
	50	345	45	170	50	189	55	208	60	227
10464	75	517	50	189	55	208	65	246	75	284
1-1/2”	100	690	55	208	60	227	75	284	85	322
	50	345	90	341	120	454	130	492	145	549
10464	75	517	100	379	140	530	150	568	180	681
2-1/2”	100	690	110	416	165	625	180	681	205	776

Threads Per Inch				
1-1/2” Size	2.100 (NYFD)	1.990 (NST)	2.093 (NYCORP)	1.878 (NPSH)

Threads Per Inch				
	6”	7”	7-1/2”	8”
	3.058	3.13	2.990 (CHICAGO)	3.062
	3.093		3.062 (NST)	3.093
	3.125		3.125 (DETROIT)	3.140
	3.156			3.156
2-1/2”	3.187			3.312
	3.234			3.031 (NYFD)
	3.250			3.00 (NY CORP)
	3.312			2.841 (NPSH)
	3.062 (PITTSBURGH)			3.78 (CLEVELAND)

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