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### TERMS:

1/2% 10 Days, net 30 Days

### FREIGHT:

COUPLINGS +

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.

## **QUICK CONNECT**

## **INDUSTRIAL**

## AUTOMOTIVE

## **QUICK CONNECT**

### **SOCKETS** - 1/4" BODY

Couplers shut-off when disconnected. Works w/MIL-C-4109F/A-A-59439 SYSTEMS. For use with compressed air only. Easy pull-to connect designs provides instantaneous connection of

Size Range

Temperature Range: -40° F to 250° F Working Pressure: 0 psi to 300 psi









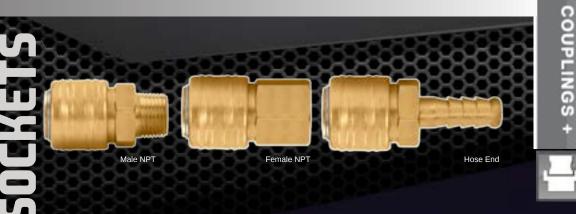
				BRASS								
							Indu	strial Interc	hange			
				5	Semi-Auto			Auto		Auto Sleeve Lock		
Body Size	End Size	Over-all Dia.	Box Qty.	Length	Part #	List	Length	Part #	List	Length	Part #	List
1/4"	1/4" Male NPT	.98"	10	2.05"	AM-02AM		2.05"	AMA-02AM		"	AMASL-02AM	
1/4"	1/4" Female NPT	.98"	10	1.97"	AM-02AF		1.97"	AMA-02AF		"	AMASL-02AF	
1/4"	1/4" Shank	.98"	10	2.3"	AM-02AH		2.3"	AMA-02AH		"	AMASL-02AHRU	
3/8"	3/8" Male NPT	.98"	10	2.03"	AM-03AM		2.09"	AMA-03AM		"		
3/8"	3/8" Female NPT	.98"	10	1.97"	AM-03AF		1.97"	AMA-03AF		"		
3/8"	3/8" Shank	.98"	10	2.7"	AM-03AH		2.48"	AMA-03AH		"		
1/2"	1/2" Male NPT	.98"	10	2.07"	AM-04AM		2.07"					
1/2"	1/2" Female NPT	.98"	10	2.13"	AM-04AF		2.13"					
1/2"	1/2" Shank	.98"	10	2.7"	AM-04AH		2.7"					

### **SOCKETS - 1/4" BODY**

Couplers shut-off when disconne Works popular automotive fittings as Amflo, Milton and others. For with compressed air only. Easy pu connect designs provides instantane connection of air lines.

Size Range

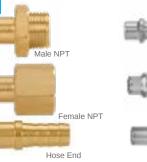
Seal material: NBR Temperature Range: -40° F to 250° F Working Pressure: 0 psi to 300 psi



		BRASS								
Body Size	End Size	Dia.	Box Qty.	Length	Part #	List				
1/4"	1/4" Male NPT	.98"	10	2.05"	AO-O2AM					
1/4"	1/4" Female NPT	.98"	10	1.97"	AO-O2AF					
1/4"	1/4" Shank	.98"	10	0.94"	AO-O2AH					
3/8"	3/8" Male NPT	.98"	10	0.82"	AO-O3AM					
3/8"	3/8" Female NPT	.98"	10	0.94"	AO-O3AF					
3/8"	3/8" Shank	.98"	10	0.82"	AO-O3AH					

### PLUGS - 1/4" BODY









ěi.	á	40	31		
511	۳	*	4		7
			Reusa	able Hos	e End

		Hose End						i iuse End								
				BR.	ASS			PLATED STEEL					PLATED STEEL / BRASS			
								Industrial Interchange								
		wo	orks v	w/ AM o	r AMA sock	ets	wo	works w/ AM or AMA sockets					works w/ Auto Sleeve Lock sockets			
Body Size	End Size	Dia.	Box Qty.	Length	Part #	List	Dia.	Box Qty.	Length	Part #	List	Dia.	Box Qty.	Length	Part #	List
1/4"	1/4" Male NPT	.46"	40	1.65"	AN-02AM		.46"	40	1.65"	AN-02AMS		17		33		
1/4"	1/4" Female NPT	.46"	40	1.38"	AN-02AF		.46"	40	1.38"	AN-02AFS		33		"		
1/4"	1/4" Shank	.46"	40	1.89"	AN-02AH		.46"	40	1.89"	AN-02AHS		"		"	AN-02AHSRU	
3/8"	3/8" Male NPT	.46"	40	1.69"	AN-03AM		.46"	40	1.69"	AN-03AMS		33		"		
3/8"	3/8" Female NPT	.46"	40	1.5"	AN-03AF		.46"	40	1.5"	AN-03AFS		11		"		
3/8"	3/8" Shank	.46"	40	2.28"	AN-03AH		.46"	40	2.28"	AN-03AHS		11		"		
1/2"	1/2" Male NPT	.46"	40	1.73"	AN-04AM		.46"	40	1.73"	AN-04AMS						
1/2"	1/2" Female NPT	.46"	40	1.54"	AN-04AF		.46"	40	1.54"	AN-04AFS						
1/2"	1/2" Shank	.46"	40	2.28"	AN-04AH		.46"	40	2.28"	AN-04AHS						

### PLUGS - 1/4" BODY

Works with popular automitive fittings such as Amflo, Milton and others. For use with compressed air only.

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			ZINC PLATED STEEL							
Body Size	ze End Size	Dia.	Hex Size	Length	Part #	List				
1/4"	1/4" Male NPT	.98"	10	2.05"	AO-O2PMS					
1/4"	1/4" Female NPT	.98"	10	1.97"	AO-O2PFS					
1/4"	1/4" Shank	.98"	10	0.94"	AO-O2PHS					
3/8"	3/8" Male NPT	.98"	10	0.82"	AO-O3PMS					
3/8"	3/8" Female NPT	.98"	10	0.94"	AO-O3PFS					
3/8"	3/8" Shank	.98"	10	0.82"	AO-O3PHS					

3

Local: (713) 675-6324 2 National: (800) 231-0734

# COUPLINGS +

## **QUICK CONNECT**

## **PRESSURE WASHER**

## **ACCESSORIES**

## **PNEUMATIC**

### PRESSURE WASHER - STRAIGHT THRU QUICK CONNECT SOCKETS

Couplers and plugs have no internal valves so there will be maximum flow. Water use only









PWC38

National: (800) 231-0734

_	_		The same of the same of
NPT	1/4 Female NPT	3/8" Male NPT	3/8" Female

	End Size	BRASS								
Body Size		Dia.	Hex Size	Length	Part #	List	Features:			
1/4"	1/4" Male NPT	.93"	0.82"	1.73"	2STM2-B		- 1/4" Rated pressure 5200 psi			
1/4"	1/4" Female NPT	.93"	0.82"	1.48"	2STF2-B		- 3/8" Rated pressure 2700 psi			
							-Temp range -40° to 250°F			
3/8"	3/8" Male NPT	1.30"	0.94"	1.76"	3STM3-B		- Standard seal Buna-n (Nitrile)			
3/8"	3/8" Female NPT	1.20"	0.94"	1.59"	3STF3-B					

### PRESSURE WASHER- STRAIGHT THRU QUICK CONNECT PLUGS



					ZII	NC PLA	TED STEEL
Body Size	End Size	Dia.	Hex Size	Length	Part #	List	Features:
1/4"	1/4" Male NPT	.61"	0.54"	1.56"	ST2M2-S		- 1/4" Rated pressure 5200 psi
1/4"	1/4" Female NPT	.75"	0.67"	1.45"	ST2F2-S		- 3/8" Rated pressure 2700 psi
							-Temp range -40° to 250°F
3/8"	3/8" Male NPT	.68"	0.67"	1.70"	ST3M3-S		
3/8"	3/8" Female NPT	95"	0.86"	1 64"	ST3E3-S		

### **PRESSURE WASHER ASSEMBLIES**

Local: (713) 675-6324

COUPLINGS



4

3/8" Female X 22mm X 14mm Swivel

### RECOIL AIR HOSE - NYLON (Yellow)



ID	Swivel & Rigid NPT Thread	Length/Ft	Part #	List
	1/4"	12	N2512	
1/4"	1/4"	25	N2525	
	1/4"	50	N2550	
	3/8"	12	N3812	
	3/8"	25	N3825	
3/8"	3/8"	50	N3850	
310				



8	ID	Swivel & Rigid NPT Thread	Length/Ft	Part #	List
S.		1/4"	10	P2510	
92	1/4"	1/4"	20	P2520	
50		1/4"	30	P2530	
59		3/8"	10	P3810	
3.1		3/8" x 1/4"	10	P382510	
	3/8"	3/8"	20	P3820	
		3/8" x 1/4"	20	P382520	
		3/8"	30	P3830	
		3/8" x 1/4"	30	P382530	

AIRSHIELD INDUSTRIAL AIR/WATERHOSE

RECOIL AIR HOSE - POLYURETHANE (Blue)

▶ Temperature range: -20°F to 180°F

### **INDUSTRIAL AIR/WATER HOSE ASSEMBLY** (Red)

▶ Working pressure ratings are based on ambient temperature of 70° F & will vary inversely w/Temperature changes.



	in relief s	leeves.		THE WALL IN THE PARTY OF THE PA	1010
				Brass Cou Both Ends 1/4'	
ID	Length/ Ft	Working PSI	Red Part #	Blue Part #	List
4/40	25'	300	SFASE 025-25	SFASPBL 025-25	

ID	Length/ Ft	Working PSI	Red Part #	Blue Part #	List
1/4"	25'	300	SFASE 025-25	SFASPBL 025-25	
1/4	50'	300	SFASP 025-50	SFASPBL 025-50	
3/8"	25'	300	SFASP 038-25	SFASPBL 038-25	
	50'	300	SFASP 038-50	SFASPBL 038-50	
1/2"	25'	300	SFASP 050-25	SFASPBL 050-25	
1/2"	50'	300	SFASP 050-50	SFASPBL 050-50	

### **BLOW GUNS - 1/4"**



Local: (713) 675-6324 National: (800) 231-0734 COUPLINGS

**TECHNICAL DATA** 

## **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.

	3. Fair Conditional x. Not Satisfactory	NOTES:	No rationg in	dicates no	data availab	le			
2. G00u	x. Not Satisfactory					_			
AGENT	Mall. From	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	Χ	2	2	2
Acetic Acid Va	por X	X		3		Χ	2	2	3
Acetic Anhydri	ide 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 Sulfa		3	3	3	1	Χ	3	2	2
Alums	X	3	2	3	1	Χ	3	2	2
Ammonia Ga		Χ	3	1	3	1	1	1	Χ
Ammonium Chlo		3		1*		3	3	1	1
Ammonium Hydro		Χ		2		1	1	1	3
Ammonium Nitr		X		2		1	1	1	3
Ammonium Phosphate (A		Х				1	1	1	2
Ammonium Phosphate		3				1	1	1	2
Ammonium Phospha		3				3	2	1	2
Ammonium Sulf		3				2	1	1	2
Asphalt	1	2				2	1	1	1
Beer	2	2	1	1		Χ	1	1	1
Beet SugarLiqu		2		1		2	1	1	1
Benzene, Benz		1	1	1	1	1	1	1	1
Benzine (petroleum-r		1		1		1	1	1	1
Borax	2	2		4		1	1	1	1
Boric Acid	X	3	4	1		3	2	1	1
Butane, Butyle	ne 1	1	1	1		1	1	1	1
Butadiene	-1-	1				1	1	1	1
Calcium Bisulfa		X		V	2	X	2	1	X
Calcium Hypochl		3	3	X	3	X	3	2	3
Cane Sugar Liqu Carbon Dioxide (		2		1		2	1	1	1
Carbon Dioxide (Wet & A		1 3		1 2		1 2	1	1	1 2
Carbon Dioxide (Wet & A		3		2		2	1	1	3
Carbon Tetrachic		1	2	3	1	1	1	1	1
Calbon Tetrachic Chlorine (Dry		2	2	1	2	2	2	2	1
Chlorine (Wet		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 Ga		3		2		1	1	1	2
Copper Sulfat		X		X		1	1	1	3
Core Oils	, , , , , , , , , , , , , , , , , , ,	1	1			1	1	1	1
Cottonseed O	il 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 Glyc		2		_		1	1	1	1
Ferric Chlorid		X	X	X	1	X	X	X	X
Ferric Sulfate		X		X	_	1	1	1	3
Formaldehyd		2		2		1	1	1	1

\*3 to X at high temperatures. Local: (713) 675-6324 Chemical Chart is reprinted from 1996 RMA Hose Handbook

National: (800) 231-0734

### **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 3. Fair Conditional NOTES: No rationg indicates no data available									
2. Good x. Not Satisfactory	NO	TES. NOT	ationy maic	ales 110 uai	la avaliable				
AGENT	Mall. From Steel	Brass	Bronze	Aluminum	Glass	Stainless 410, 416, 430	Stainless 302, 202, 304, 308	Stainless 316	Monel
Formic Acid	Χ	2		X		Χ	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	Χ
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	Χ	X	1	X	X	Χ	X
Hydrocyanic Acid	3	X		1		3	1	1	2
Hydrofluoric Acid	Χ	3	3	Χ	X	X	X	X	X
Hydrogen Fluoride	1	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	V		3		1	3	2	1
Lime-Sulfur	2	X		2		1	1	2	1
Linseed Oil Magnesium Chloride	3	3		1 X		3	1 2	1	1
Magnesium Hydroxide		2		X		1	1	1	1
Magnesium Hydroxide  Magnesium Sulfate	1 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	Χ	X	Χ	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

Local: (713) 675-6324 7 National: (800) 231-0734

### **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 2. Not Satisfact 2. Good 2.	onal	NOTES: No							
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	Χ	3	2
Soda Ash (Sodium Carbonate)	1	2		Χ		1	1	1	1
Sodium Bicarbonate	3	1		X		1	1	1	1
Sodium Bisulfate	X	3		3		Χ	1	1	1
Sodium Chloride	2	3	2	Χ	1	3	2	1	1
Sodium Cyanide	2	X		Χ		1	1	1	2
Sodium Hydroxide	3	X	3	Χ	Χ	2	2	2	1
Sodium Hypochlorite	Х	Χ		Х		Х	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		Χ		1	1	1	1
Sodium Sulfate	1	2		3		1	1	1	1
Sodium Sulfide	1	Χ				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	Χ		2		2	2	1	3
Sulfur Chloride	X	Χ				Χ	3	2	2
Sulfur Dioxide (Dry)	2	1		1		1	1	1	1
Sulfur Dioxide (Wet)		X				Χ	2	1	Χ
Sulfuric Acid 10%	X	Χ	3	3		X	Χ	2	2
Sulfuric Acid 10-75%	X	Χ	Χ	Χ		Χ	Χ	Χ	2
Sulfuric Acid 75-95%	3	Х	Х	Х		3	3	2	3
Sulfuric Acid 95%	2	X	Χ			2	2	2	Χ
Surlfurous Acid	Х	Х		Х		X	3	2	X
Tannic Acid	3	3	1	Χ			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	Χ		3	2	2	1
Whiskey	Х	2				3	1	1	2
Wines	X	2				3	1	1	2
Xylene, Xylol	2	1		1		1	1	1	1
Zinc Chloride	Х	X		Χ		3	2	1	1
Zinc Sulfate	3	3		3		3	2	1	1

\*3 to X at high temperatures.

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Chemical Chart is reprinted from 1996 RMA Hose Handbook

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### **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:

CLASS A	(HIGH OIL RESISTANCE)	VOLUME CHANGE MAXIMUM +25%	TENSILE STRENGTH RETAINED 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. To 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 conditions 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-sulfonylpolyethylene

**EPDM** - Ethylene-propylenediene-terpolymer **MQ** - Dimethyl-polysiloxane

**FKM-**Fluoracarbon rubber **CM -** Chloro-polyethylene **ECO/CO-**Ephichlorohydrin

**EXLPE-** Chloro-sulfonyl-polyethylene

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## **NOTES**



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