

### SHEET RUBBER

# INDEX

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### **TERMS OF SALE**

COUPLINGS +

1/2% 10 Days, net 30 Days

#### FREIGHT:

**TERMS:** 

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 guotes 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 ASSOC
1150 Boot Road
Unit 1
Downingtown, PA
(610) 518-2301

CIATES ASPEN MARKETING, INC 5160 Fox Street Denver, CO 80216 19335 (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

### **Product Images**

- product you will receive.
- product features shown in pictures may no longer be available.

### **Product Specifications**

### Product Usage

- determine the correct product for the correct application.
- manner in which they are not designed.
- parts are used.

#### **Product Availability**

#### **Product Pricing**

- Please contact your sales associate for current pricing.

### DISCLAIMERS

## DISCLAIMERS

 Seal Fast makes every reasonable effort to show accurate product representation, however pictules are for reference only, and do not necessarily reflect the exact

• Seal Fast reserves the right to alter product appearance without notice. Some

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

• 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

• Seal Fast will not be held liable for the abuse or misuse of our products in a

• Seal Fast cannot guarantee the integrity of an assembly if other manufacturers

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

• Seal Fast is constantly doing our best to maintain pricing levels. However, circumstances change and while many prices go down, others will increase.

COUPLINGS

С

FIRE PROTECTION

GAUGES

VALVES

## **SBR/PURE GUM**

### SBR SHEET - NYLON INSERTED - BLACK

SBR SHEET - RED

Good physical properties and abrasion resistance. Poor resistance to petroleumbased fluids

**SHEET RUBBER** 

	<ul> <li>Composition:</li> <li>65 Durometer</li> <li>Elongation: M Tensile Streng</li> </ul>	+/- 5 IN 200%				
1	Thickness	Width	Avg. Length	Avg. lbs.	Red SB	R List ft.
	1/16"					
2		36"	60'	100	RD-SBR-2-36	
	4/01	48"	45'	100	RD-SBR-2-48	
	1/8"	36"	30'	100	RD-SBR-4-36	
		48"	22.5'	100	RD-SBR-4-30 RD-SBR-4-48	
	3/16"	-+0	22.5	100	110 301(-4-40	
		36"	45'	200	RD-SBR-6-36	
		48"	34'	200	RD-SBR-6-48	
	1/4"					
		36"	30'	200	RD-SBR-8-36	

Composition: Styrene-Butadiene
 65 Durometer +/- 5
 Elongation: MIN 300%
 Tensile Strength: MIN 500 psi

Thickness Width

1/16"

1/8"

3/16"

1/4"

Avg. Length

45'

22.5'

34'

22.5'

Avg. lbs.

88.5

88.5

200

177

Black SBR

Part #

BK-SBR-2-48

BK-SBR-4-48

BK-SBR-6-48

BK-SBR-8-48

List ft.

SBR

● 65 E	nposition: Polymer- Eth Durometer +/- 5 ngation: MIN 300% sile Strength: MIN 500	nylene-Propylene-diene psi	
	Thickness	Width	
	1/16"	48" Nylon SBR	

				SRB	3
Thickness	Width	Avg. Length	Avg. Ibs.	Part #	List ft.
1/16"	48" Nylon SBR	54'	167	NI-SBR-2	
1/8"	48" Nylon SBR	27'	106.3	NI-SBR-4	
3/16"	48" Nylon SBR	36'	212.5	NI-SBR-6	
1/4"	48" Nylon SBR	27'	212.5	NI-SBR-8	

#### Good physical properties and abrasion resistance. Poor resistance to petroleumbased fluids

### PURE GUM SHEET - TAN

Thickness	Width	Avg. Length	Avg. lbs.	Pure Pure
1/8"		Longin		T all t
	36"	53'	100	PU-GUM-4-3
	48"	40'	100	PU-GUM-4-4
3/16"				
	36"	71'	200	PU-GUM-6-3
1/4"				
	36"	53'	200	PU-GUM-8-3
	48"	40'	200	PU-GUM-8-4
3/8"				
	36"	30/35'	200	PU-GUM-12-
	48"	13'	100	PU-GUM-12-
1/2"				
	36"	27'	200	PU-GUM-16-
	48"	27'	275	PU-GUM-16-
3/4"				
	36"	18'	200	PU-GUM-24-3
1"				
	36"	13'	200	PU-GUM-32-
				* Information sup



### **SHEET RUBBER**



#### se applied pressure may be light to effect a satisfactory seal.



<u>)</u>

d from RMA Sheet Rubber Handbook

### **SHEET RUBBER**

#### NITRILE SHEET BUNA-N BLACK

llent resistance to petroleum based fluids. Good physical properties.

## NEOPRENE

Width

48" 3oz Cotton 1ply

48" 3oz Cotton 1ply

48" 3oz Cotton 1ply

Avg.Length

150'

75'

37'

**CLOTH INSERTED NEOPRENE** 

General application

Cloth Inserted Neoprene
 60 Durometer +/- 5
 Elongation: MIN 250%

Thickness

Strength: MIN 600 ps

ASTM designation: NBR
Common Name: Buna N
Polymer: Nitrile-Butadiene 60 Durometer +/- 5
Elongation: MIN 300%
Tensile Strength: MIN 600 psi

NITRILE

<b>This laws a</b>		Avg.	A 11	Black Nitr	ile
Thickness	Width	Length	Avg. Ibs.	Part #	List ft.
1/16"	36" BUNA-N	68'	100	CO-NIT-2-36	
1/8"	36" BUNA-N	34'	100	CO-NIT-4-36	
3/16"	36" BUNA-N	45'	200	CO-NIT-6-36	
1/4"	36" BUNA-N	34'	200	CO-NIT-8-36	
3/8"	36" BUNA-N	23'	200	CO-NIT-12-36	
1/2"	36" BUNA-N	17'	200	CO-NIT-16-36	

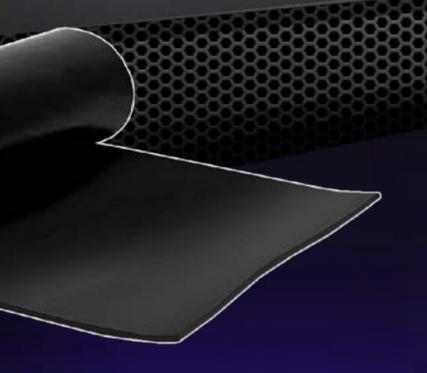
\* Information supplied from RMA Sheet Rubber Handbook

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### **SHEET RUBBER**



As any line	Neopre	ene
Avg.lbs.	Part #	List ft.
295.5	CI-NE-2	
294.75	CI-NE-4	
288.97	CI-NE-8	





### **SHEET RUBBER**

COMMERCIAL GRADE BLACK NEOPRENE

## NEOPRENE

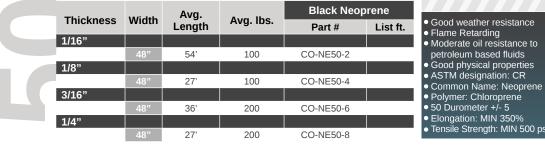
arding oil resistance to based fluids sical properties signation: CR ame: Neopre hloroprene ter +/- 5 n: MIN 300% ength: MIN 430 ps

## EPDM/NITRILE

### **COMMERCIAL GRADE EPDM-BLACK**

All rolls come with poly slip liner.

### **50 Durometer**



### **60 Durometer**

		Avg.		Black Neop	orene
Thickness	Width	Length	Avg. lbs.	Part #	List ft.
1/32"					
	36"	135'	100	CO-NE60-1-36	
1/16"					
	36"	72'	100	CO-NE60-2-36	
0/00"	48"	54'	100	CO-NE60-2-48	
3/32"	36"	48'	100	CO-NE60-3-36	
1/8"	30	40	100	CO-NE00-3-30	
	36"	36'	100	CO-NE60-4-36	
	48"	27'	100	CO-NE60-4-48	
3/16"					
	36"	48'	200	CO-NE60-6-36	
1/4"	48"	36'	200	CO-NE60-6-48	
1/4	36"	36'	200	CO-NE60-8-36	
	48"	27'	200	CO-NE60-8-48	
3/8"					
	36"	24'	200	CO-NE60-12-36	
	48"	18'	200	CO-NE60-12-48	
1/2"					
	36"	15'	200	CO-NE60-16-36	
	48"	13'	200	CO-NE60-16-48	
3/4"	36"	21'	351	CO-NE60-24-36	
	48"	21	468	CO-NE60-24-38	
1"			-00	00 11230 24 40	
	36"	21'	468	CO-NE60-32-36	
	48"	21'	624	CO-NE60-32-48	

### **70 Durometer**

	<b>T</b> I: 1.1		Avg.	A	Black Neop	orene
	Inici	kness	Length	Avg. lbs.	Part #	List ft.
	1/16"					
		36"	72'	100	CO-NE70-2-36	
		48"	54'	100	CO-NE70-2-48	
	1/8"					
		36"	36'	100	CO-NE70-4-36	
		48"	27'	100	CO-NE70-4-48	
	3/16"					
		36"	48'	200	CO-NE70-6-36	
_		48"	36'	200	CO-NE70-6-48	
	1/4"					
		36"	36'	200	CO-NE70-8-36	
		48"	27'	200	CO-NE70-8-48	

\* Information supplied from RMA Sheet Rubber Handbook



	I, and aging resistance. Poor	resistance to petroleumbased i	luids.		
Thickness	Width	Avg. Length	Avg. lbs.	<ul> <li>Polymer: Ethylene-Propylene-</li> <li>60 Durometer +/- 5</li> <li>Elongation: MIN 300%</li> <li>Tensile Strength: MIN 800 psi</li> </ul>	
				Part # CO-EPDM-2	List ft.
1/16" 1/8"	48" EPDM	56' 20'	100	CO-EPDM-2 CO-EPDM-4	
1/8" 1/4"	48" EPDM 48" EPDM	29' 29'	100 200	CO-EPDM-4 CO-EPDM-8	
	<b>FFDA - WHITE</b> etroleum based fluids. Good	ohysical properties. <b>Food grad</b>	e.		
		ohysical properties. Food grad	e.	<ul> <li>Polymer: Ethylene-Propylene-</li> <li>Common Name: Buna N</li> <li>60 Durometer +/- 5</li> <li>Elongation: MIN 650%</li> <li>Tensile Strength: MIN 1200 ps</li> </ul>	diene
		physical properties. Food grad	e.	<ul> <li>Polymer: Ethylene-Propylene-</li> <li>Common Name: Buna N</li> <li>60 Durometer ±/. 5</li> </ul>	diene
Thickness	Width	Avg. Length	Avg. lbs.	<ul> <li>Polymer: Ethylene-Propylene-</li> <li>Common Name: Buna N</li> <li>60 Durometer +/- 5</li> <li>Elongation: MIN 650%</li> <li>Tensile Strength: MIN 1200 ps</li> </ul>	diene
cellent resistance to p	etroleum based fluids. Good j			<ul> <li>Polymer: Ethylene-Propylene-</li> <li>Common Name: Buna N</li> <li>60 Durometer +/- 5</li> <li>Elongation: MIN 650%</li> <li>Tensile Strength: MIN 1200 ps</li> </ul>	diene i

	al and aging resistance. Boor	registance to potroloumbased f				
Sellent Ozone, chemica	a, and aging resistance. Poor	resistance to petroleumbased fl				
				<ul> <li>Polymer: Ethylene-Propylen</li> <li>60 Durometer +/- 5</li> <li>Elongation: MIN 300%</li> <li>Tensile Strength: MIN 800 p</li> </ul>	ne-diene osi	
Thickness	Width	Avg. Length	Avg. lbs.	EPDM Part #	List ft.	
1/16"	48" EPDM	56'	100	CO-EPDM-2		
1/8"	48" EPDM	29'	100	CO-EPDM-4		
1/4"	48" EPDM	29'	200	CO-EPDM-8		
TRILE SHEE	T FDA - WHITE	Dhysical properties. Food grade				
TRILE SHEE	T FDA - WHITE			<ul> <li>Polymer: Ethylene-Propylen</li> <li>Common Name: Buna N</li> <li>60 Durometer +/- 5</li> <li>Elongation: MIN 650%</li> <li>Tensile Strength: MIN 1200</li> </ul>	ne-diene	
TRILE SHEE xcellent resistance to p Thickness 1/16"	T FDA - WHITE Detroleum based fluids. Good p United States	ohysical properties. Food grade	e. Avg. lbs. 100	<ul> <li>Polymer: Ethylene-Propylen</li> <li>Common Name: Buna N</li> <li>60 Durometer +/- 5</li> <li>Elongation: MIN 650%</li> <li>Tensile Strength: MIN 1200</li> </ul>	psi	
TRILE SHEE	T FDA - WHITE betroleum based fluids. Good p	ohysical properties. Food grade	e. Avg. lbs.	<ul> <li>Polymer: Ethylene-Propylen</li> <li>Common Name: Buna N</li> <li>60 Durometer +/- 5</li> <li>Elongation: MIN 650%</li> <li>Tensile Strength: MIN 1200</li> </ul>	psi	

SHEET RUBBER

### **SHEET RUBBER**

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\* Information supplied from RMA Sheet Rubber 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. Good3. Fair Condition x. Not Satisfactor		NOTES: No	o rationg in	dicates no d	data availat	ble			
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	Х	Х	Х	2	1	Х	2	2	2
Acetic Acid Vapor	Х	Х		3		Х	2	2	3
Acetic Anhydride	Х	Х		2		Х	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	Х	3	3	3	1	Х	3	2	2
Alums	Х	3	2	3	1	Х	3	2	2
Ammonia Gas	1	Х	3	1	3	1	1	1	Х
Ammonium Chloride	1	3		1*		3	3	1	1
Ammonium Hydroxide	2	Х		2		1	1	1	3
Ammonium Nitrate	1	Х		2		1	1	1	3
Ammonium Phosphate (Ammoniacal)		Х				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		Х	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	Х	3		1		3	2	1	1
Butane, Butylene	1	1	1	1		1	1	1	1
Butadiene		1				1	1	1	1
Calcium Bisulfate		Х				Х	2	1	Х
Calcium Hypochlorite	3	3	3	Х	3	Х	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)	Х	Х	3	Х	2	Х	Х	3	3
Chromic Acid		Х	Х	Х	1	3	2	2	3
Citric Acid	Х	3		1		3	Х	1	2
Coke Oven Gas	1	3		2		1	1	1	2
Copper Sulfate	Х	Х		Х		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	Х	Х	Х	Х	1	Х	Х	Х	Х
Ferric Sulfate	Х	Х		Х		1	1	1	3
Formaldehyde	2	2		2		1	1	1	1
*2 to V at high tomporatures	Cha	mical Ch		a vitata al f					

#### 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 material

following the specific recommendation	ations of th	e manufact	urer regard	ing particul	ar coupling	materials.			
RATINGS:1. Excellent3. Fair Conditional2. Goodx. Not Satisfactory	NC	DTES: No r	ationg indic	ates no da	ta available				
AGENT	Mall. From Steel	Brass	Bronze	Aluminum	Glass	Stainless 410, 416, 430	Stainless 302, 202, 304, 308	Stainless 316	Monel
Formic Acid	Х	2		Х		Х	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	Х
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	Х	Х	Х	Х	1	Х	Х	Х	Х
Hydrocyanic Acid	3	Х		1		3	1	1	2
Hydrofluoric Acid	Х	3	3	Х	Х	Х	Х	Х	Х
Hydrogen Fluoride		3				Х	Х	3	1
Hydrogen	1	1		1		1	1	1	1
Hyrogen Peroxide	Х	Х		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	Х			3		_	3	2	1
Lime-Sulfur	2	Х		2		1	1	2	
Linseed Oil	1	1		1			1	1	1
Magnesium Chloride	3	3		Х		3	2	1	1
Magnesium Hydroxide	1	2		Х		1	1	1	1
Magnesium Sulfate	2	2		3		1	1	1	1
Mercuric Chloride	3	X		X		X	X	3	Х
Mercury	1	X		X		1	1	1	2
Milk	3	3		1		2	1	1	3
Molasses Natural Gas	2	X		2		2	1	1	1
	1	2 X		1		1 X	1	1 2	1 2
Nickel Chloride				X			3		
Nickel Sulfate Nitric Acid	Х	3 X	Х	X 3	1	3	2	1 2	1 X
Oleic Acid	2	3	~	3 1	T	2	2	1	1
Oxalic Acid	3	3		2		3	2	1	1
Oxalic Acid	1	1	1	1		1	1	1	1
Palmitic Acid	1	3	-	1		2	2	1	1
Petroleum Oils (Sour)	1	3		1		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)	<u> </u>	X		1		1	1	1	2
*3 to X at high temperatures	(		l Chart i		ed from '				

\*3 to X at high temperatures. Local: (713) 675-6324

\*3 to X at high temperatures. Local: (713) 675-6324

Chemical Chart is reprinted from 1996 RMA Hose Handbook 8

National: (800) 231-0734

## **TECHNICAL DATA**

Chemical Chart is reprinted from 1996 RMA Hose Handbook 9 National: (800) 231-0734

#### CORROSION RESISTANCE OF COUPLING MATERIALS

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RATINGS:1. Excellent3. Fair Conditio2. Goodx. Not Satisfact		NOTES: No	o rationg in	dicates no c	data availat	ble			
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		Х				Х	Х	3	2
Soda Ash (Sodium Carbonate)	1	2		Х		1	1	1	1
Sodium Bicarbonate	3	1		Х		1	1	1	1
Sodium Bisulfate	Х	3		3		Х	1	1	1
Sodium Chloride	2	3	2	Х	1	3	2	1	1
Sodium Cyanide	2	Х		Х		1	1	1	2
Sodium Hydroxide	3	Х	3	Х	Х	2	2	2	1
Sodium Hypochlorite	Х	Х		Х		Х	3	2	3
Sodium Metaphosphate	Х	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				Х	2	1	1
Sodium Silicate	1	3		Х		1	1	1	1
Sodium Sulfate	1	2		3		1	1	1	1
Sodium Sulfide	1	Х				1	1	1	2
Sodium Thiosulfate (Hypo)	3	Х		Х		1	1	1	2
Stearic Acid	3	3		3		2	2	1	1
Sulfate Liquors		Х				1	1	1	2
Sulfur	2	Х		2		2	2	1	3
Sulfur Chloride	Х	Х				Х	3	2	2
Sulfur Dioxide (Dry)	2	1		1		1	1	1	1
Sulfur Dioxide (Wet)	V	X	2	2		X	2	1	X
Sulfuric Acid 10%	X	Х	3	3		X	X	2	2
Sulfuric Acid 10-75%	X	X	Х	X		X	X	Х	2
Sulfuric Acid 75-95% Sulfuric Acid 95%	3	X X	X	Х		3 2	3 2	2	3 X
Surlfurous Acid	X	X	~	Х		X	2	2	X
Tannic Acid	3	3	1	X		~	1	1	1
Tar	1	2	T	1		2	1	1	1
Toluene, Toluol	1	1		1		1	1	1	1
Trichlorethylene	3	1		3		1	1	1	1
Turpentine	U	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	Х	2				3	1	1	2
Xylene, Xylol	2	1		1		1	1	1	1
Zinc Chloride	Х	Х		Х		3	2	1	1
Zinc Sulfate	3	3		3		3	2	1	1
	_								

\*3 to X at high temperatures. Local: (713) 675-6324

Chemical Chart is reprinted from 1996 RMA Hose Handbook

#### **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.

PHYSICA	AL 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%
CHEMIC	AL 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 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. Local: (713) 675-6324

### **TECHNICAL DATA**

#### **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-sulfonvlpolyethylene

#### ELASTOMERS

Commonly used Elastomers:									Special	Elastor	ners:	
MATERIAL	NR Ior IR	SBR	CR	NBR	IIR	CSM	EPDM	MQ	FKM	СМ	ECO CO	XLPE
	_	(M	Maximu	m Tempe	erature	100° F (3	38°C) Un	less Ot	herwise	Specifie	ed	
Acetic Acid, Dilute, 10%	F	С	С	С	А	С	А	А	Х	А	F	А
Glacial	С	Х	Х	Х	F	С	F	F	Х	А	Х	А
Anhydride	С	С	F	F	F	А	I	С	Х	А	Х	А
Acetone	А	А	F	Х	А	F	А	А	Х	А	Х	А
Acetylene	А	А	F	А	А	F	А	С	А	I.	I	I
Air 150°F (65°C)	A	А	А	А	А	Α	А	А		А	А	Α
Aluminum Chloride 150°F (65°C)	А	А	А	А	А	А	А	А	А	А	А	А
Aluminum Fluoride 150°F (65°C)	А	А	А	А	А	А	А	F			А	А
Aluminum Sulfate 150°F (65°C)	А	А	А	А	А	А	А	А	А	А	I	А
Alums 150°F (65°C)	А	А	А	А	А	А	А	А		А	I	А
Ammonia Gas	А	А	А	А	А	А	А	А	Х	А	I	А
Ammonium Chloride	А	А	А	А	А	А	А	С	А	А	А	А
Ammonium Hydroxide	С	F	F	F	А	А	А	А	А	А	I	А
Ammonium Nitrate	А	А	А	А	А	А	А	А		I	А	А
Ammonium Phosphate, monobasic	А	А	А	А	А	А	А	А		А	1	А
dibasic	А	А	А	А	А	А	А	А		I	I	А
tribasic	А	А	А	А	А	А	А	А		I	I	А
Ammonium Sulfate	А	А	А	А	А	А	А	А	А	А	1	А
Amyl Acetate	F	Х	Х	Х	F	Х	А	А	Х	С	Х	А
Amyl Alcohol	А	А	А	А	А	А	А	А	А	А	А	А
Aniline, Aniline Oil	Х	Х	С	Х	А	Х	С	С	А	С	Х	А
Aniline Dyes	F	F	F	F	A	F	С	С		-		1
Asphalt	X	Х	F	F	Х	F	X		А		A	Х
Barium Chloride 150°F (65°C)	A	A	A	A	A	A	A	А	A	А	A	A
Barium Hydroxide 150°F (65°C)	А	А	А	А	А	А	А	А	А	А	А	А
Barium Sulfide 150°F (65°C)	А	А	А	А	А	А	А	А	А	I	А	А
Beer	A	A	A	A	A	A	A	A	A	1	A	A
Beet Sugar Liquors	A	A	A	A	A	A	A	A	A		1	A
Benzene, Benzol	X	X	X	C	X	X	X	С	A	С	X	A
	~							5	,,	5		,,
Benzine, petroleum ether and												
Benzine, petroleum naphtha	Х	Х	С	F	Х	F	Х	С	А		I	А
Black Sulfate Liquor	А	А	A	А	А	А	А	А		1	I	А
Blast Furnace Gas	С	С	А	С	С	С	С	С	А	I	I	А
Borax	А	А	А	А	А	А	А	А	А	I	I	А
Boric Acid	А	А	А	А	А	А	А	А	А	I	А	А
Bromine	Х	Х	Х	Х	Х	С	Х	F	А	С		F
Butane	Х	Х	F	А	Х	A	Х	А	А	А	А	А
Butyl Acetate	С	Х	Х	Х	F	Х	F	А	Х	F	х	А
Butyl alcohol, butanol	A	A	A	A	A	A	A	A	A	F	1	A
Calcium bisulfate	C	C	A	A	F	A	F	С	A	A		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	С	A	A	F	F
Caliche liquors	A	A	A	A	A	A	A	0	71		1	A
Cane sugar liquors	A	A	A	A	A	A	A	А	А	А	A	A
			C								~	
Carbolic acid, phenol	С	С	C	С	С	С	A	A	A	А		A

#### ELASTOMERS

Commonly used Elastomers:									Special	Elastor	ners:	
MATERIAL	NR Ior IR	SBR	CR	NBR	IIR	CSM	EPDM	MQ	FKM	СМ	ECO CO	XLPE
		(Ma	aximum	Temper	ature 1	00° F (38	3°C) Unle	ss Oth	erwise S	pecified	ł	
Carbon dioxide, dry/wet	A	А	А	А	А	Α	А	А	А	А	А	А
Carbon disulfide	Х	Х	Х	Х	Х	Х	Х	С	А	С		С
Carbon monoxide 150°C (65°C)	С	С	С	С	С	F	С	A	А	1		A
	X	N	V	0	V	X	X	0	٥	0	-	0
Carbon tetrachloride Castor oil	X	X	X	C	X	X	Х	C	A	C	F	A
Castor oli Cellosolve acetate	A F	A	A X	A X	A	A	A	A C	A C	A	A	A
CEROSOIVE ACEIALE CFC-12	X	X	A	A	F		F	X	A		А	A
China wood oil, tung oil	X	X	F	A	A	F	A	A	C		I	A
Chlorine, dry/wet	X	Х	X	X	X	X	X	X	C	Х	Х	F
Smorme, arymet	Λ	~	~	~	~	X	X	~	0	X	~	
Chlorinated solvents	Х	Х	Х	Х	Х	Х	Х	С	С	С		А
Chloroacetic acid	X	С	С	C	Х	A	I	С	X			A
Chlorosulfonic acid	Х	Х	С	С	Х	Х	Х	С	Х			F
Chromic acid	Х	Х	Х	Х	С	А	I	С	С	А		F
Citric acid	A	А	А	F	А	А	А	А	А	А	А	А
Coke oven gas	С	С	С	С	С	А		А	Х	А	Х	С
Copper chloride 150°F (65°C)	С	А	F	Α	А	F	А	А	А	A	I	А
Copper sulfate 150°F (65°C)	С	А	A	А	F	A	A	А	А	A	А	A
Corn oil	Х	С	F	A	A	F	С	A	А	A	А	A
Cottonseed oil	Х	С	F	A	A	F	С	A	А	A	I	A
	X	N	-	•	V	-	X	0	F		X	٥
Creosote, coal tar	Х	Х	F	A	Х	F	Х	С	F		Х	A
Wood	X C	X	F X	A C	X C	F	X X	C C	A	F		A
Creosols, cresylic acid Ethers	C	C	C	C	C	F	X	C	Х	A		A
Ethyl acetate	F	X	X	X	F	Х	F	F	X	F	Х	A
Engraceate		Λ	~	Λ	1	Λ			Λ		~	~
Ethyl alcohol	A	А	А	А	А	А	А	А	А	А	А	А
Ethyl cellulose	F	F	F	F	F		F	С	Х	F		A
Ethyl chloride	A	F	F	Х	А	F	А	С	F	F	F	F
Ethylene glycol	А	А	А	А	А	А	А	А	А	А	А	А
Ferric chloride 150°F (65°C)	А	А	А	А	А	А	А	А	I	А	А	А
Ferric Sulfate 150°F (65°C)	А	А	А	А	А	А	А	А	А	А	А	А
Formaldehyde	A	А	С	А	А	А	А	А	А	А	F	А
Formic acid	A	А	С	F	А	Α	А	А	Х	А	F	F
Fuel oil	Х	Х	А	А	Х	F	Х	С	А	F	А	А
Furfural	Х	С	С	Х	А	F	С	С	Х	Α	Х	А
Gasoline, Non Leaded	Х	Х	Х	А	Х	Х	Х		А	С	А	А
Gasoline, + MTBE	Х	Х	Х	A	Х	Х	Х	С	A	С	A	A
Hi-test-+ MTBE	Х	Х	Х	A	Х	Х	Х	С	A	С	A	A
Gelatin	A	A	А	A	A	A	A	A	A		A	A
Glucose	А	А	А	А	А	А	А	А	А		А	А
Glue	F	F	А	А	F	А	А	А	С		А	А
Glycerine, glycerol	A	А	А	А	А	А	А	А	А	А	А	А
Green sulfate liquor	А	А	А	Α	А	Α	А	А	Α	А	А	А
HFC-134A	F	Х	А	A	А	F	A		Х	F		A

Chart is reprinted from 1996 RMA Hose Handbook

Local: (713) 675-6324

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## **TECHNICAL DATA**

#### ELASTOMERS

Commonly used Elastomers:									Special	Elastor	ners:	
MATERIAL	NR Ior IR	SBR	CR	NBR	IIR	CSM	EPDM	MQ	FKM	СМ	ECO CO	XLPE
		(N	laximui	n Tempe	erature	100° F (3	38°C) Un	less Ot	herwise	Specifie	ed	
Hydraulic fluids Petroleum	Х	Х	А	А	Х	F	Х			А	A	
Phosphate ester alkyl	X	X	C	X	A	Х	A			A	X	
Phosphate ester arty	X	X	X	X	C	X	C			C	Х	
Phosphate ester blends	~	X	Х	X	X	X	X	С		Ū	C	Х
Silicate ester	Х	X	С	C	X	C	X			С	C	
Water-Glycol	А	А	А	А	А	А	А		А	А	А	
Hydrobromic acid	С	Х	С	С	А	А	А	С	А	А		I
Hydrochloric acid	А	Х	Х	Х	С	С	С	С	А	А	Х	А
Hydrocyanic acid	F	F	С	F	С	А	С	А	А			А
Hydrofluoric acid	Х	Х	Х	Х	С	А	С	Х	А	А		А
Hydrofluosilicic acid	А	F	F	F	А		А	А	А	А		I
Hydrogen Gas	F	F	А	А	А		А	А	А		А	А
Hydrogen peroxide	Х	Х	С	С	С	С	С	А	А	А		I
Hydrogen sulfide, dry	С	С	F	С	А	Α	А	С	F			А
wet	С	С	F	С	А	А	А	С	С		F	А
Kerosene	Х	Х	F	А	Х	С	Х	С	А	А	А	А
Lacquers	Х	Х	Х	Х	С	Х	Х		Х		Х	F
Lacquers solvents	Х	Х	Х	Х	С	Х	Х		Х		Х	F
Lactic acid	С	С	С	С	С	A	С	A	А	1		A
Linseed oil	С	Х	F	A	A	A	A	A	А	A	A	A
			_			-						
Lubricating oil, crude	Х	Х	F	A	Х	C	X	С	A	•	A	A
refined	X	X	F	A	X	C	X	C	٥	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	А	A	A	A
Mercuric chloride	F	F	С	F	^	^	٨	٨	٨		Δ	^
Mercury	A	A	A	A	A A	A	A A	A	A		A	A
Mercury Methyl alcohol, methanol	A	A	A	A	A	A	A	A	C	А	F	A
Methyl chloride	C	C	C	C	C	X	C	X	A	~ ~	1	F
Methyl ethly ketone	X	X	X	X	F	C	A	С	X	С	Х	A
								•				
Methyl isopropyl ketone	Х	Х	Х	Х	F	С	С	С	Х	F	Х	А
МТВЕ												A
Milk	С	С	F	F	А	А	А	А	А	А	А	А
Mineral oils	Х	С	F	А	Х	F	Х	А	А	А	А	А
Natural gas	С	С	А	А	С	А	Х	С	А	А	А	А
Nickel chloride 150°F (65°C)	А	А	А	А	А	А	А	А	А	А	L	А
Nickel sulfate 150°F (65°C)	А	А	А	А	А	А	А	А	А	А	1	А
Nitric acid, crude	Х	Х	Х	Х	С	С	Х	Х	С	А	Х	F
Diluted 10%	Х	Х	С	Х	С	С	Х	Х	С	А	Х	F
Concentrated 70%	Х	Х	Х	Х	С	С	Х	Х	С	Х	Х	F
Nitrobenzene	Х	Х	Х	Х	Х	Х	Х	С	F	С	Х	А
Oleic acid	Х	F	С	F	F	F	F	А	С	А		А
Oleum spirits	Х	С	С	С			I		С			I

#### ELASTOMERS

									Special	Elaston	ners:	
	NR Ior IR	SBR	CR	NBR	IIR	СЅМ	EPDM	MQ	FKM	СМ	ECO CO	XLPE
		(Ma	ximum	Temper	ature 10	00° F (38	°C) Unle	ss Oth	erwise S	pecified		
Oxalic acid	F	С	F	F	А	А	А	А	А	А	F	А
Oxygen	F	С	А	С	А		А	А	А	Α	F	A
Palmitic acid	Х	F	A	A	F	F	F	С	A	A	F	A
Perchlorethylene	Х	Х	X	С	Х	Х	Х	С	A	С	F	A
Petroleum oils and crude 200°F (95°C)	X	Х	F	A	Х	С	X	С	A	С	F	A
Phosphoric acid, crude	A	С	С	С	С	A	С	С	A	A		A
pure 45%	A	C C	C C	C C	C C	A	С	С	A	A		
Picric acid, molten	С	C	C	C	C		I					I
water solution	А	С	F	F	А	А		А	А			1
Potassium chloride	A	A	A	A	A	A	A	A	A	А	А	A
Potassium cyanide	A	A	A	A	A	A	A	A	A	A	A	A
Potassium hydroxide	F	F	С	C	A	A	A	A	C	A	A	A
Potassium sulfate	A	A	A	A	A	A	A	A	A	A	A	A
		-										
Propane	Х	Х	F	А	Х	F	Х	А	А	А	А	А
Sewage	С	С	F	А	С	А	С	С	А		I	А
Soap solutions	А	А	F	А	А	А	А	А	А	А	А	А
Soda ash, sodium carbonate	А	А	А	А	А	А	А	А	А	А	А	А
Sodium bicarbonate, baking soda	А	А	А	А	А	А	А	А	А	А	А	А
Sodium bisulfate	А	А	А	А	А	А	А	А	А	А	А	А
Sodium chloride	А	А	А	А	А	А	А	А	А	Α	А	А
Sodium cyanide	А	А	А	А	А	А	А	А	А	А	А	А
Sodium hydroxide	F	F	С	С	А	С	Α	А	С	А	F	Α
Sodium hypochlorite	Х	Х	Х	Х	А	F	А	С	A	A	F	F
Sodium metaphosphate	A	А	С	A	A	F	A	А	A	A	I.	A
Sodium nitrate	С	С	С	С	А	А	A	С		A	A	A
Sodium perborate	С	С	С	С	A	A	A	А	A			A
Sodium peroxide	С	С	С	С	A	A	A	С	A			A
Sodium phosphate.monobasic	А	F	С	F	A	A	A	A	A	A		A
dibooio	٨	Г	<u> </u>	F	٨	٨	٨	٨				^
dibasic tribasic	A	F	C C	F	A	A	A	A				A
Sodium silicate	A A	A	A	F	A	A	A	A	А	А	1	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		A
		7.	7.	7.				7.		7.		
Sodium thiosulfate, "hypo"	А	А	А	А	А	А	А	А	А	А	I	А
Soybean oil	Х	С	F	A	A	A	A	A	A	A	A	A
Stannic chloride	A	A	A	A	F	A	F	A	A	A	1	A
Steam 450°F (230°C)	С	С	С	С	A	A	F	С	X		Х	X
Stearic acid	Х	Х	С	F	F	С	F	A	1		F	A
Sulfur	F	F	A	F	А	A	А	F	А		F	С
Sulfur chloride	Х	Х	С	С	Х	А	Х	С	А			А
Sulfur dioxide , dry	С	С	С	С	С	А	С	А	А		I	I
Sulfur trioxide, dry	Х	С	С	С	С	F	С	А	А			I
Sulfuric acid, 10%	А	А	А	А	А	А	А	А	Α	А	А	Α

Local: (713) 675-6324

Local: (713) 675-6324

National: (800) 231-0734

## **TECHNICAL DATA**

#### Chart is reprinted from 1996 RMA Hose Handbook

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#### ELASTOMERS

#### Commonly used Elastomers:

Special Elastomers:

MATERIAL	NR Ior IR	SBR	CR	NBR	lir	CSM	EPDM	MQ	FKM	СМ	ECO CO	XLPE
		()	/aximu	n Tempe	erature	100° F (3	88°C) Un	less Ot	herwise	Specifie	d	
11%-75%	С	C	С	С	F	A	C	С	А	A	F	А
76%-95%	X	X	X	X	C	A	X	X	A	X	X	A
fuming	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
Sulfurous acid	С	С	С	С	С	А	С	С	А	А	С	А
Tannic acid	А	С	А	С	А	А	А	А	А	А	1	А
Tar	Х	Х	С	С	Х	С	Х	С	F		F	Х
Tartaric acid	А	С	С	С	F	А	F	А	А	А	F	А
Toluene, toluol	Х	Х	Х	С	Х	Х	Х	С	А	С	Х	А
Trichloroethylene	Х	Х	Х	Х	Х	Х	Х	С	А	С	Х	А
Turpentine	Х	Х	Х	F	Х	Х	Х	С	А	F	А	А
Vinegar	С	С	С	С	А	А	А	А	А	А		А
Water, acid mine	A	A	С	A	А	А	А	А	А	А	I.	А
Water, fresh	А	А	С	А	А	А	А	А	А	А	А	А
distilled	A	А	С	А	А	А	А	А	А	А	А	A
Whiskey and wines	А	А	А	С	А	А	А	А	А	А	I	А
Xylene.xylol	Х	Х	Х	С	Х	Х	Х	С	А	Х	Х	А
Zinc chloride	С	С	С	С	А	А	А	А	А	Α	I	Α
Zinc sulfate	А	А	А	А	А	А	А	А	А	А	1	А

#### **NOZZLES** - SPECS

1-1/2" Size

2.100 (NYFD)

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** 

modulo i or mon		
1.990 (NST)	2.093 (NYCORP)	

Threads Per Inch				
	6"	7"	7-1/2"	8"
2-1/2"	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
	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)

Chart is reprinted from 1996 RMA Hose Handbook

1.878 (NPSH)