

CONTENTS





INDEX

	PUSH ON	. 2,	3
\approx			
	GARDEN	. 4,	5
	FERRULES		6
	CRIMP TOOLS	·····	7
	TECHNICAL DATA	8-1	1

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.

BRASS FITTINGS

PUSH ON PUSH ON

BRASS FITTINGS

COUPLINGS

GRIP-ON

▶ Used With Thermoplastic Or Rubber Push-on Style Hose Ease of assembly - push on design - Excellent vibration characteristics Plastic Protection Cap Included

Hose x Male NPT



Hose x FPT	•	
Œ		

Hose x 45° SAE Male



Hose x Female 45° Flare	
Swivel SAE	
THE PARTY NAMED IN	

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Alle .			8	all design
iss	Носо	Dina	E	rass

Hose Pipe		Bra	ss
ID	Thread	Part #	List
1/4"	1/8"	301-42	
1/4"	1/4"	301-44	
1/4"	3/8"	301-46	
5/16"	1/8"	301-52	
3/8"	1/8"	301-62	
3/8"	1/4"	301-64	
3/8"	3/8"	301-66	
1/2"	3/8"	301-86	
1/2"	1/2"	301-88	
1/2"	3/4"	301-812	
5/8"	1/2"	301-108	
3/4"	3/4"	301-1212	
1"	1"	301-1616	

Hose	Pipe	Bra	ss	Но
ID	Thread	Part #	List	II
1/4"	1/8"	3099-42		1/4
1/4"	1/4"	3099-44		1/4
1/4"	3/8"			1/4
5/16"	1/8"	3099-52		3/8
3/8"	1/8"	3099-62		1/2
3/8"	1/4"	3099-64		3/4
3/8"	3/8"	3099-66		
1/2"	3/8"	3099-86		
1/2"	1/2"	3099-88		
1/2"	3/4"	3099-812		
5/8"	1/2"	3099-108		
3/4"	3/4"	3099-1212		
1"	1"	3099-1616		-

Hose	Pipe Brass		Hos	
ID	Thread	Part #	List	ID
1/4"	1/4"	302-44		1/4
1/4"	5/16"	302-45		3/8
1/4"	3/8"	302-46		3/4
3/8"	3/8"	302-66		
1/2"	1/2"	302-88		
3/4"	3/4"	302-1212		

			-
Hose	Pipe	Bra	ss
ID	Thread	Part #	List
1/4"	3/8"	307-46	
3/8"	3/8"	307-66	
3/4"	3/4"	307-1212	

Hose x Inverted Flare Male, Swivel



JE (100)	
7 mile	
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			_	
-	-			

Push-On Air Hose

Hose x Inverted Flare

vel 37°			
-	-	OT 20	
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			٠.
-			100

Hose x JIC Female

100	-	N. Comence
-	and the latest	-FFFFFFF
100	And Address	44,1114
1		757576
1	and and	The Marie

List

Hose x JIC Male 37°

Hose	Pipe	Bra	ss	Hose	Pipe	Bra	ss
ID	Thread	Part #	List	ID	Thread	Part #	Lis
1/4"	3/16"	305-43		1/4"	3/16"	306-43	
1/4"	1/4"	305-44		1/4"	1/4"	306-44	
1/4"	5/16"	305-45		1/4"	5/16"	306-45	
5/16"	5/16"	305-55		5/16"	5/16"	306-55	
3/8"	3/8"	305-66		3/8"	3/8"	306-66	
1/2"	1/2"	305-88		1/2"	1/2"	306-88	
5/8"	5/8"	305-1010		5/8"	5/8"	306-1010	

Hose	Pipe	Bra	ss
ID	Thread	Part #	List
1/4"	1/4"	308-44	
1/4"	3/8"	308-46	
3/8"	3/8"	308-66	
1/2"	1/2"	308-88	
3/4"	3/4"	308-1212	
1"	1"	308-1616	

Hose	Pipe	Bra	ss
ID	Thread	Part #	Lis
1/4"	1/4"	310-44	
1/4"	5/16"	310-45	
3/8"	3/8"	310-66	
1/2"	1/2"	310-88	
3/4"	3/4"	310-1212	
1"	1"	310-1616	

Hose x Hose Splicer



Hose ID	Brass						
HOSE ID	Part #	List					
1/4"	304-44						
5/16"	304-55						
3/8"	304-66						
1/2"	304-88						
5/8"	304-1010						
3/4"	304-1212						
1"	304-1616						

Hose	Working	Bend	Weight	Standard	Black I	Vitrile
ID	Pressure psi	Radius	Per Ft	Length Ft	Part #	List/Ft
1/4"	300max	3.0	9	100'/300'	PH025	
3/8"	300max	3.0	12	100'/300'	PH038	
1/2"	300max	5.0	15	100'/300'	PH050	

This oil resistant hose is excellent for use with air tools, mild chemicals and various petroleum products. Special braid angle for quick secure push-on coupling retention. Temperature range: -40° F to 212° F

Tube: Black Nitrile Reinforcement: Black Neoprene Cover: One Textile Braid Safety Factor: 3:1

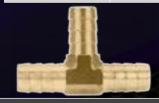
HOSE SHANKS

NPT Threads



					BRASS				
Hose ID	Thread Size Hose End End		X Male NPT	Male NPT Hose End X Female NPT			Female NPT Swivel End X Hose End		
		Part #	List	Part #	List	Part #	List		
1/8"	1/8"	201A-2A		209A-2A		209AS-2A			
3/16"	1/8"	201A-3A		209A-3A		209AS-3A			
3/16"	1/4"	201A-3B		209A-3B		209AS-3B			
1/4"	1/8"	201A-4A		209A-4A					
1/4"	1/4"	201A-4B		209A-4B		209AS-4B			
1/4"	3/8"	201A-4C		209A-4C					
5/16"	1/8"	201A-5A		209A-5A					
5/16"	1/4"	201A-5B		209A-5B		209AS-5B			
5/16"	3/8"	201A-5C		209A-5C					
3/8"	1/8"	201A-6A		209A-6A					
3/8"	1/4"	201A-6B		209A-6B		209AS-6B			
3/8"	3/8"	201A-6C		209A-6C		209AS-6C			
3/8"	1/2"	201A-6D							
3/8"	3/4"	201A-6E		209A-6E					
1/2"	1/4"	201A-8B		209A-8B					
1/2"	3/8"	201A-8C		209A-8C		209AS-8C			
1/2"	1/2"	201A-8D		209A-8D		209AS-8D			
1/2"	3/4"	201A-8E		209A-8E					
5/8"	3/8"	201A-10C							
5/8"	1/2"	201A-10D							
5/8"	3/4"	201A-10E							
3/4"	1/2"	201A-12D							
3/4"	3/4"	201A-12E		209A-12E		209AS-12E			
1"	3/4"	201A-16E							







Hole ID	Hose Barb	Mender
	Part #	List
1/8"	HM-2	
3/16"	HM-3	
1/4"	HM-4	
5/16"	HM-5	
3/8"	HM-6	
1/2"	HM-8	
5/8"	HM-10	
3/4"	HM-12	

BRA	SS			
Hose Barb Tees			Male NPT X H	ose Barb 90
Part #	List		Part #	List
			HBT1-03	
HBT2-04			HBT1-04	
HBT2-06			HBT1-06	
HBT2-08			HBT1-08	
			HBT1-10	
HBT2-12			HBT1-12	

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

GARDEN GARDEN

BRASS FITTINGS

SHANK COUPLINGS - LONG SHANK







		BRASS								
Size	Complete Set		Female		Male					
Hose x Thread	Part #	List	Part #	List	Part #	List				
1/2" x 3/4" NPSH	BLS050075		BLS050075F		BLS050075M					
1/2" x 3/4" GHT	BLS050075GHT		BLS050075GHTF		BLS050075GHTM					
5/8" x 3/4" NPSH	BLS058075		BLS058075F		BLS058075M					
5/8" x 3/4" GHT	BLS058075GHT		BLS058075GHTF		BLS058075GHTM					
3/4" x 3/4" NPSH	BLS075		BLS075F		BLS075M					
3/4" x 3/4" GHT	BLS075GHT		BLS075GHTF		BLS075GHTM					
1" x 1" NPSH	BLS100		BLS100F		BLS100M					

SHANK COUPLINGS - SHORT SHANK







		BRASS								
Sizo	Complete	Set	Female	Male						
Size Hose x Thread	Part #	List	Part #	List	Part #	List				
1/2" x 3/4" NPSH	BSS050075		BSS050075F		BSS050075M					
1/2" x 3/4" GHT	BSS050075GHT		BSS050075GHTF		BSS050075GHTM					
5/8" x 3/4" NPSH	BSS058075		BSS058075F		BSS058075M					
5/8" x 3/4" GHT	BSS058075GHT		BSS058075GHTF		BSS058075GHTM					
3/4" x 3/4" NPSH	BSS075		BSS075F		BSS075M					
3/4" x 3/4" GHT	BSS075GHT		BSS075GHTF		BSS075GHTM					

GARDEN HOSE







	HYBRID PO			RUB	BER	
Size	Premium GardenFlex		Round Rubber		Octagon Rubber	
	Part #	List	Part #	List	Part #	List
5/8" x 50'	GFH058050		RGH058050		ORGH058050	
5/8" x 100'	GFH058100		RGH058100			
3/4" x 50'			RGH075050			
3/4" x 100'			RGH075100			
1" x 50'			RGH100050			

GARDEN HOSE NOZZLES



GARDEN HOSE FITTINGS

Garden Threads







COUPLINGS

		BRASS								
Garden Pipe Thread Thread		Female GHT x Female Pipe		Female GHT x Female Pipe Swivel		Male GHT X Female Pipe				
		Part #	List	Part #	List	Part #	List			
3/4"	1/2"	5A-12D		5AS-12D		18A-12D				
3/4"	3/4"	5A-12E		5AS-12E		18A-12E				







				BRAS	S			
Garden Thread	Pipe Thread	Male Pipe x N	Male GHT	Male GHT x M	ale GHT	Female Hose Cap GHT		
		Part #	List	Part #	List	Part #	List	
3/4"	3/8"	19A-12C						
3/4"	1/2"	19A-12D						
3/4"	3/4"	19AF-12DE		23A-12		GHN5H		







		BRASS	5					
Garden Thread	Hose Shank	Hose Barb x Hose Barb G						
		Part #	List					
3/4"	1/2"	202GHSH-88						
3/4"	5/8"	202GHSH-1010						
3/4"	3/4"	202GHSH-1212						

	E	BRASS	
Details			
	STYLE	Part #	List
1-1/2" FNST x 3/4" MGHT	Pin Lug	1913009	
2-1/2" FNST x 3/4" MGHT	Pin Lug	1913037	
3/4" FGHT x 3/4" MNPT	Hex	2415517	
3/4" FGHT x 1" MNPT	Hex	2415518	
1" FNPT x 3/4" MGHT	Hex	2415520	

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

BRASS FITTINGS

1.00"

.546"

.968"

.875"

.625"

.562"

.687"

.750"

.025"

.020"

.025"

.025"

BRASS FITTINGS

COUPLINGS

FERRULES

Sold in pkg. quantity only



MEDIUM WEIGHT - FOR AIR & FLUID HOSE **BRASS** Metal Cross Qty Per Length Hole Thickness Pkg Reference Part # List ea .328" .025" 4750 50 B-478-L .687" .406" .020" 50 B-525- SP10 .500" .437" .025" 7325 50 B-560-SP1 1.00" .437" .025" 7326 50 B-593-L 1.00" B-625-SP4 1.00" .437" .025" 7327 50 .437" .025" 1.00" 7328 50 B-656-L 1.00" .500" .025" 7329 50 B-690-L 1.00" .500" .025" 7330 50 B-718-SP1 1.00" .625" .025" 7331 50 B-750-SP3 1.00" .625" .025" 7332 50 B-781-SP2

7333

AA

7242

50

50

50

25

B-812-L

B-825-SP2

B-850-L

B-937-L

LIGH"	T WEIGH	T - FOR	AIR & FLUI	D HOSE			
ID	Length	Hole	Metal	Cross	Qty Per	BRASS	
טו	Lengui	поте	Thickness	Reference	Pkg	Part #	List ea
.380"	.500"	.265"	.020"	622	50	B-380-S	
.410"	.500"	.265"	.020"	620	50	B-410-S	
.450"	.562"	.343"	.020"	769	50	B-450-SP1-S	
.500"	.500"	.343"	.020"	624	50	B-500-SP2	
.525"	.470"	.360"	.020"	625	50	B-525-SP6	
.560"	.750"	.375"	.020"	3588	50	B-560-SP2	
.575"	.484"	.468"	.020"	KK	50	B-575-SP1	
.600"	.500"	.500"	.020"	JJ	50	B-600-SP2	
.625"	.500"	.500"	.020"	II	50	B-625-SP3	
.650"	.500"	.500"	.020"	HH	50	B-650-SP3	
.725"	.530"	.500"	.020"	EE	50	B-725-SP3	
.750"	.531"	.500"	.020"	DD	50	B-750-SP5	



	LIGH	T WEIGH	T - FLU	ID HOSE				
	ID	Longth	Hole	Metal	Cross	Qty Per	BRASS	
	טו	Length	поје	Thickness	Reference	Pkg	Part #	List ea
è	.875"	.843"	.687"	.025"	7244A	50	B-875-SP1	
	.900"	.875"	.687"	.025"	5029A	50	B-900-SP2	
ı	.975"	.843"	.687"	.025"	5028A	50	B-975-SP2	
ı	1.025"	.843"	.687"	.025"	7114A	50	B-1025-SP1	
ı	1.050"	.843"	.687"	.025"	7145A	50	B-1050-SP1	
ļ.	1.100"	.843"	.812"	.025"	5027A	50	B-1100-SP2	
	1.175"	.875"	.875"	.025"	7088A	25	B-1175-SP1	
	1.225"	.968"	.875"	.025"		25	B-1225-SP1	
	1.275"	.968"	.875"	.025"		25	B-1275-SP1	
	1.425"	.875"	1.062"	.025"		25	B-1425-SP1	
	1.500"	.875"	1.125"	.025"		25	B-1500-S	
	1.550"	.812"	1.125"	.025"		25	B-1550-S	

CRIMPING TOOLS

Dur hose crimpers provide production capability & a big tool crimping advantages at just a fraction of the cost of other tools offering comparable results.

3041 & 3043 (Die Sizes - 3041-1 thru 3041-5 & 3048-5)

Tool Included Dies		
1001 included Dies	Part #	List
3041-1 thru 3041-5	3041	
3041-1 thru 3041-4 and 3048A	3043	
	let let let let	346 346 3

3042 (Capable of Die Sizes - 1/2" to 1" ID 7/8" to 1-1/2 OD)

Tool Only Disc Not Included		
Tool Only - Dies Not Included	Part #	List
capable of 1/2" to 1" ID 7/8" to 1-1/2 OD	3042	

3041 & 3043 Dies

Size	Mark		
Size	Mark	Part #	List
5/8"	no mark, 2	3041-1	
37/64"	2, 3	3041-2	
17/32"	3, 4	3041-3	
31/64"	4, 5	3041-4	
11/16"	5, no mark	3041-5	
7/16"	7W, 7W	3048A	
3/4"	8W, 8W	3049A	
13/16"	9W, 9W	3050A	
3/8"	10W, 10W	3051A	

3042 Dies

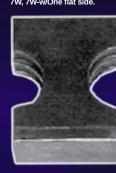
Cina	Moule		
Size	Mark	Part #	List
11/16"	1	3042-1	
23/32"	2	3042-2	
3/4"	3	3042-3	
25/32"	4	3042-4	
13/16"	5	3042-5	
27/32"	6	3042-6	
7/8"	7	3042-7	
29/32"	8	3042-8	
15/16"	9	3042-9	
31/32"	10	3042-10	
1"	11	3042-11	
1-1/32"	12	3042-12	
1-1/16"	13	3042-13	
1-1/8"	14	3042-14	
1-3/16"	15	3042-15	
1-1/4"	16	3042-16	
1-5/16"	17	3042-17	
1-3/8"	18	3042-18	
1-7/16"	19	3042-19	
1-1/2"	20	3042-20	



5, no mark no hole.



7W, 7W-w/One flat side.







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.

RATINGS: 1. Excellent 3. Fair Condition	nal						3.		
2. Good x. Not Satisfacto		NOTES: N	o rationg in	dicates no d	data availat	ole			
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	Χ	X	X	2	1	Х	2	2	2
Acetic Acid Vapor	Χ	Χ		3		Χ	2	2	3
Acetic Anhydride	Х	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 Ammonium Phosphate (Ammoniacal)	1	X		2		1	1	1	3
Ammonium Phosphate (Ammoniacai) Ammonium Phosphate (Neutral)		X 3				1	1	1	2
Ammonium Phosphate (Neutral) Ammonium Phosphate (Acid)		3				3	2	1	2
Ammonium Sulfate	1	3				2	1	1	2
Animonium Sunate Asphalt	1	2				2	1	1	1
Beer	2	2	1	1		X	1	1	1
Beet SugarLiquors	1	2	Τ.	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		Χ				Χ	2	1	X
Calcium Hypochlorite	3	3	3	X	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)	Χ	Χ	3	Χ	2	X	Χ	3	3
Chromic Acid		Χ	Х	Χ	1	3	2	2	3
Citric Acid	Χ	3		1		3	Χ	1	2
Coke Oven Gas	1	3		2		1	1	1	2
Copper Sulfate	X	X		Χ		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	Χ	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. Local: (713) 675-6324

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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. Good 2. Not Satisfactory		TES: No ra							
AGENT	Mall. From Steel	Brass	Bronze	Aluminum	Glass	Stainless 410, 416, 430	Stainless 302, 202, 304, 308	Stainless 316	Monel
Formic Acid	Χ	2		Χ		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	X	X
Hydrocyanic Acid	3	X	2	1	V	3	1	1	2
Hydrofluoric Acid Hydrogen Fluoride	X	3	3	Χ	X	X	X	X	Χ
, ,	1	3		1		X	X	3	1
Hydrogen Hyrogen Peroxide	1 X	1 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	2		3		1	3	2	1
Lime-Sulfur	2	Χ		2		1	1	2	1
Linseed Oil	1	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		Χ		Χ		Χ	3	2	2
Nickel Sulfate		3		X		3	2	1	1
Nitric Acid	Χ	Χ	Χ	3	1	2	2	2	Χ
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	Χ
Petroleum Oils (Refined)	1	1	1	1		1	1	1	1
Phosphoric Acid 25%	3	Х		3	3	Χ	3	1	2
Phosphoric Acid 25-50%	Χ	Χ		Χ	3	Χ	Χ	2	2
Phosphoric Acid 50-85%	Χ	Χ		Х	Χ	X	Χ	2	2
Picric Acid	3	Χ		3		2	1	1	Χ
Potassium Chloride	2	3		3		3	2	1	1
Potassium Hydroxide	3	Χ		Χ		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)		Χ		1		1	1	1	2

*3 to X at high temperatures.

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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 3. Fair Condition 2. Good x. Not Satisfact		NOTES: No	o rationg in	dicates no d	data availat	ole			
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		Χ				Χ	Χ	3	2
Soda Ash (Sodium Carbonate)	1	2		X		1	1	1	1
Sodium Bicarbonate	3	1		Χ		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	Χ		Χ		1	1	1	2
Sodium Hydroxide	3	Χ	3	Χ	Χ	2	2	2	1
Sodium Hypochlorite	X	Χ		Χ		Χ	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				Χ	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	Χ		Χ		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				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	Χ	2	2
Sulfuric Acid 10-75%	X	X	Χ	Χ		X	X	X	2
Sulfuric Acid 75-95%	3	X	X	Х		3	3	2	3
Sulfuric Acid 95%	2	X	Χ			2	2	2	X
Surlfurous Acid	X	X	4	X		Х	3	2	X
Tannic Acid	3	3	1	X		2	1	1	1
Tar	1	2		1		2	1	1	1
Toluene, Toluol	1							1	
Trichlorethylene	3	1		3		1	1	1	1
Turpentine Varnish	2	2		1		1	1	1	1
Varnish Vegetable Oils	1	2		1		1	1	1	1
Vegetable Oils 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 (Fiesh) 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
Zinc Sunate	J	J		3		3	~	1	Τ.

*3 to X at high temperatures.

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10

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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 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

ECO/CO-Ephichlorohydrin **EXLPE-** Chloro-sulfonvlpolyethylene

EPDM - Ethylene-propylene-

MQ - Dimethyl-polysiloxane

FKM-Fluoracarbon rubber

CM - Chloro-polyethylene

diene-terpolymer

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NOTES



Local: (713) 675-6324 12 National: (800) 231-0734