

1000 PSI 2000 PSI 4000 PSI 6000 PSI 10,000 PSI 15,000 PSI

Conservation of the



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COUPLINGS +

1/2% 10 Days, net 30 Days

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- manner in which they are not designed.
- parts are used.

Product Availability

Product Pricing

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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

PIPE COUPLINGS

FIGURE 100 THREADED 1000 PSI CWP

HAMMER UNION HAMMER UNION FIGURE 200 THREADED 2000 PSI CWP



		1000 PSI CWP				
Size	Weight Each (lbs)	Standard Carton	Part #	List		
1"						
2"	5.25	6	HU100-200T			
3"	12.65	5	HU100-300T			
4"	20.81	3	HU100-400T			
6"	46.20	1	HU100-600T			
8"	66.00	1	HU100-800T			

FIGURE 206 THREADED 2000 PSI CWP



	2000 PSI CWP						
Size	Weight Each (lbs)	Standard Carton	Part #	List			
1"							
	13.45	4	HU206-200T				
3"	22.93	4	HU206-300T				
4"	35.71	1	HU206-400T				
	35.71	1	HU206-600T				
	66.00	1	HU206-800T				

FIGURE 400 THREADED 4000 PSI CWP

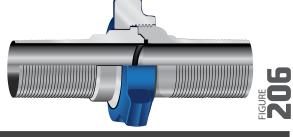


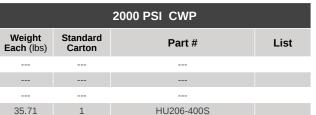
0.1		20	00 PSI CWP	
Size	Weight Each (lbs)	Standard Carton	Part #	List
2"	5.00	12	HU400-200T	
3"	13.76	5	HU400-300T	
4"	21.59	3	HU400-400T	



	2000 PSI CWP						
Weight Each (lbs)	Standard Carton	Part #	List				
1.92	30	HU200-100T					
5.00	12	HU200-200T					
13.76	5	HU200-300T					
21.59	3	HU200-400T					
46.20	1	HU200-600T					
66.00	1	HU200-800T					

FIGURE 206 SHANK 300 PSI CWP





REPLACEMENT ELASTOMER SEALS



Weight Each (lbs)	Standard Carton	Part #	List
5.25	4	HU-200ES	
12.65	2	HU-300ES	
20.81	2	HU-400ES	

FIGURE 602 THREADED 6000 PSI CWP



	6,000 PSI CWP			
Size	Weight Each (lbs)	Standard Carton	Part #	List
1"	13.23	4	HU602-100T	
2"	22.27	2	HU602-200T	
	31.31	2	HU602-300T	
4"	22.27	2	HU602-400T	

FIGURE 1002 THREADED 10000 PSI CWP



	10,000 PSI CWP				
Size	Weight Each (lbs)	Standard Carton	Part #	List	
2"	5.25	4	HU1002-200T		
3"	12.65	2	HU1002-300T		
4"	5.25	4	HU1002-400T		

FIGURE 1502 THREADED 15000 PSI CWP



-	15,000 PSI CWP					
Size	Weight Each (lbs)	Standard Carton	Part #	List		
2"	5.25	4	HU1502-200T			
	12.65	2	HU1502-300T			

PIPE COUPLINGS

FIGURE 602 BUTT WELD 6000 PSI CWP



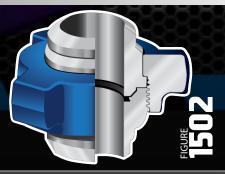
6,000 PSI CWP							
Weight Each (lbs)	List						
12.65	2	HU602-200BW					
20.81	2	HU602-300BW					
12.65	2	HU602-400BW					

FIGURE 1002 BUTT WELD 10000 PSI CWP



	:	10,000 PSI CWP	2	VALVI
Weight Each (lbs)	Standard Carton	Part #	List	EST
5.25	4	HU1002-200BW		=
12.65	2	HU1002-200BW		Z
80.03	1	HU1002-200BW	5	្ណ

FIGURE 1502 BUTT WELD 15000 PSI CWF



15,000 PSI CWP										
Weight Each (lbs)	Standard Carton	Part #	List							
5.25	4	HU1502-200BW								
12.65	2	HU1502-300BW								
80.03	1	HU1502-400BW								

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: N	o rationg in	dicates no	data availab	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	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		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	Х	3	X	3	2	3
Cane Sugar Liquors	1	2	0	1	0	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	Х	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	Х	Х	1	X	X	X	X
Ferric Sulfate	X	X	~	X	T	1	1	1	3
Formaldehyde	2	2		2		1	1	1	1
*2 to X at high tomporatures		- mical Ch			400				T

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

following the specific rec		and manufac	arer regard	ing particul		materials.			
TINGS: 1. Excellent 3. Fair Cc 2. Good x. Not Sa		OTES: No	rationg indi	cates 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	>
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	\rightarrow
Hydrocyanic Acid	3	Х		1		3	1	1	2
Hydrofluoric Acid	Х	3	3	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 Solver	nts 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	-
Magnesium Chloride	3	3		Х		3	2	1	-
Magnesium Hydroxide	1	2		Х		1	1	1	-
Magnesium Sulfate	2	2		3		1	1	1	1
Mercuric Chloride	3	Х		Х		Х	Х	3	>
Mercury	1	Х		Х		1	1	1	2
Milk	3	3		1		2	1	1	3
Molasses	2	Х		2		2	1	1	-
Natural Gas	1	2		1		1	1	1	-
Nickel Chloride		Х		Х		Х	3	2	2
Nickel Sulfate		3		Х		3	2	1	-
Nitric Acid	Х	Х	Х	3	1	2	2	2	>
Oleic Acid	2	3		1		2	2	1	-
Oxalic Acid	3	3	4	2		3	2	1	-
Oxygen	1	1	1	1		1	1	1	-
Palmitic Acid	1	3		1		2	2	1	1
Petroleum Oils (Sour) Petroleum Oils (Refined)	1	3	1	1		3 1	1	1)
Phosphoric Acid 25%	3	X	T	3	3	X	3	1	-
Phosphoric Acid 25%	3 X	X		X	3	X	X	2	2
Phosphoric Acid 25-50% Phosphoric Acid 50-85%	X	X		X	X	X	X	2	2
Picric Acid	3	X		3	^	2	1	1	>
Potassium Chloride	2	3		3		3	2	1	1
Potassium Chloride Potassium Hydroxide	3	X		X		3	1	1	1
Potassium Hydroxide Potassium Sulfate	2	2		1		1	1	1	-
Polassium Sunale Propane	1	1		T		1	1	1	1
Rosin (Dark)	1	2			1	1	1	1	-
Rosin (Dark)	L L	X		1	±	1	1	1	-
*3 to X at high tempe						 1996 RN			

*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 4

National: (800) 231-0734

TECHNICAL DATA

Chemical Chart is reprinted from 1996 RMA Hose Handbook 5 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. Excellent3. Fair Conditio2. Goodx. Not Satisfact		NOTES: NO	o rationg in	dicates no c	data availal	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	X	Х		X		Х	3	2	3
Sodium Metaphosphate	X	3		1		2	1	1	1
Sodium Nitrate	1	3		1		1	1	1	1
Sodium Perborate Sodium Peroxide	3	3		1		1	1	1	1
Sodium Peroxide Sodium Phosphate (Alkaline)	3	3		T		1	1	1	1
Sodium Phosphate (Neutral)		2				1	1	1	1
Sodium Phosphate (Acid)		2				X	2	1	1
Sodium Silicate	1	3		Х		1	1	1	1
Sodium Sulfate	1	2		3		1	1	1	1
Sodium Sulfide	1	X		5		1	1	1	2
Sodium Thiosulfate (Hypo)	3	X		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)		Х				Х	2	1	Х
Sulfuric Acid 10%	Х	Х	3	3		Х	Х	2	2
Sulfuric Acid 10-75%	Х	Х	Х	Х		Х	Х	Х	2
Sulfuric Acid 75-95%	3	Х	Х	Х		3	3	2	3
Sulfuric Acid 95%	2	Х	Х			2	2	2	Х
Surlfurous Acid	Х	Х		Х		Х	3	2	Х
Tannic Acid	3	3	1	Х			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	6	1		1	1	1	1
Water (Salt)	3	3	2	Х		3	2	2	1
Whiskey	X	2				3	1	1	2
Wines	X	2		1		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. Local: (713) 675-6324

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.

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 Elastomers:									
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		I	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 Elastomers:											
MATERIAL	NR Ior IR	SBR	CR	NBR	lir	CSM	EPDM	MQ	FKM	СМ	ECO CO	XLPE
	_	(Ma	aximum	Temper	ature 1	00° F (38	3°C) Unle	ss Oth	erwise S	pecified	1	
Carbon dioxide, dry/wet	A	А	А	А	А	А	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	A	I		A
Carbon tetrachloride	V	V	V	C	V	V	V	<u> </u>	٨	<u> </u>	F	٨
Carbon tetrachionde Castor oil	X	X	X	C	X	X	X	C A	A	C A	F	A
Cellosolve acetate	F	F	X	X	A	~	A	c	C	~	~	A
CFC-12	X	X	A	A	F		F	X	A		А	
China wood oil, tung oil	X	X	F	A	A	F	A	A	С		1	A
Chlorine, dry/wet	Х	Х	Х	Х	Х	Х	Х	Х	С	Х	Х	F
	_											
Chlorinated solvents	Х	Х	Х	Х	Х	Х	Х	С	С	С		А
Chloroacetic acid	Х	С	С	С	Х	А	Ι	С	Х			А
Chlorosulfonic acid	Х	Х	С	С	Х	Х	Х	С	Х			F
Chromic acid	X	X	Х	X	С	A	I	С	С	A		F
Citric acid	A	A	A	F	A	A	A	A	A	A	A	A
Coke oven gas	С	С	С	С	С	А		А	Х	А	Х	С
Copper chloride 150°F (65°C)	C	A	F	A	A	F	A	A	A	A		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	Х	С	F	А	А	F	С	А	А	А	I	А
Creosote, coal tar	Х	Х	F	А	Х	F	Х	С	F		Х	А
Wood	Х	Х	F	А	Х		Х	С	А			Α
Creosols, cresylic acid	С	Х	Х	С	С	F	Х	С		F		А
Ethers	С	С	С	С	С	F	X	С	Х	A		A
Ethyl acetate	F	Х	Х	Х	F	Х	F	F	Х	F	Х	A
Ethyl alcohol	А	А	А	А	А	А	А	А	А	А	А	А
Ethyl cellulose	F	F	F	F	F	A	F	C	X	F	A	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	А	А	А	А	А	А	А	1	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	Α	А	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	A	F	С	С	Х	A	Х	A
Gasoline, Non Leaded	Х	Х	Х	A	Х	Х	Х	0	A	С	A	A
Gasoline, + MTBE	X	X	X	A	X	X	X	С	A	С	A	A
Hi-test-+ MTBE	X	X	X	A	X	X	X	C	A	С	A	A
Gelatin	A	А	А	А	А	А	A	А	A		A	A
Glucose	А	А	А	А	А	А	А	А	А		А	А
Glue	F	F	A	A	F	A	A	A	C		A	A
Glycerine, glycerol	A	A	A	A	A	A	A	A	A	А	A	A
Green sulfate liquor	А	А	А	А	А	А	А	А	А	А	А	А
HFC-134A	F	Х	А	А	А	F	А		Х	F		А

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TECHNICAL DATA

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ELASTOMERS

Commonly used Elastomers:									Special	Elastor	ners:	
MATERIAL	NR Ior IR	SBR	CR	NBR	IIR	CSM	EPDM	MQ	FKM	СМ	ECO CO	XLPE
		(N	laximu	m Tempe	rature	100° F (3	38°C) Un	less Ot	herwise	Specifie	ed	
Hydraulic fluids												
Petroleum	Х	Х	A	A	Х	F	Х			A	A	
Phosphate ester alkyl	Х	Х	С	Х	A	Х	A			A	Х	
Phosphate ester arly	Х	X	X X	X	C X	X	C X	С		С	X C	Х
Phosphate ester blends Silicate ester	Х	X	C	X C	X	X C	X	C		С	C	~
Silicale ester	~	~	C	C	~	C	~			C	C	
Water-Glycol	А	А	А	А	А	А	А		А	А	А	
Hydrobromic acid	C	X	C	C	A	A	A	С	A	A	7.	1
Hydrochloric acid	A	X	Х	X	С	C	C	C	A	A	Х	A
Hydrocyanic acid	F	F	С	F	С	A	C	A	A			A
Hydrofluoric acid	Х	X	X	X	С	A	C	X	A	А		A
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	Α	А	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	A			A
Linseed oil	С	Х	F	A	A	A	A	A	A	A	A	A
Lubrication all anuda	V	Х	F	٨	Х	C	Х	<u> </u>	А		٨	А
Lubricating oil, crude refined	X X	X	F	A	X	C C	X	C C	A	А	A	A
Magnesium chloride 150°F (65°C)	A	A	A	A	A	A	A	A	А	A	A	A
Magnesium chionde 150 P (85 C) 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
	,,	7.	7.	7.	7.	,,,	7.	7.	7.	7.	,,	,,
Mercuric chloride	F	F	С	F	А	А	А	А	А		А	А
Mercury	А	А	A	А	А	А	А	А	А		А	А
Methyl alcohol, methanol	А	А	А	А	А	А	А	А	С	А	F	А
Methyl chloride	С	С	С	С	С	Х	С	Х	А			F
Methyl ethly ketone	Х	Х	Х	Х	F	С	А	С	Х	С	Х	А
Methyl isopropyl ketone	Х	Х	Х	Х	F	С	С	С	Х	F	Х	А
МТВЕ												А
Milk	С	С	F	F	А	А	А	А	А	А	А	А
Mineral oils	Х	С	F	A	Х	F	Х	Α	А	A	А	А
Natural gas	С	С	А	А	С	А	Х	С	А	А	А	А
Nickel chloride 150°F (65°C)	A	A	A	A	A	А	A	A	A	A		A
Nickel sulfate 150°F (65°C)	A	A	A	A	A	A	A	A	A	A		A
Nitric acid, crude	Х	Х	Х	Х	С	С	Х	Х	С	A	Х	F
Diluted 10%	Х	Х	С	Х	С	C	X	Х	С	A	Х	F
Concentrated 70%	X X	X	X	X	C	C	X	X C	C F	X C	X	F
Nitrobenzene Oleic acid	X	X F	X C	X F	X F	X F	X F	A	F C		Х	A
	X	C	C	C	F	F	F	А	C	A		A
Oleum spirits	X	C	C	C					C			1

ELASTOMERS

	only used Elastomers: Special Elastomers:											
	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	А	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	А

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National: (800) 231-0734

TECHNICAL DATA

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ELASTOMERS

Commonly used Elastomers:

Special Elastomers:

MATERIAL	NR Ior IR	SBR	CR	NBR	IIR	CSM	EPDM	MQ	FKM	СМ	ECO CO	XLPE
		()	/laximur	n Tempe	rature	100° F (3	88°C) Unl	ess Ot	herwise	Specifie	d	
11%-75%	С	C	С	С	F	A	C	С	A	A	F	А
76%-95%	Х	Х	Х	Х	С	А	Х	Х	А	Х	Х	А
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	I	А
Tar	Х	Х	С	С	Х	С	Х	С	F		F	Х
Tartaric acid	A	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	X	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	А	С	А	А	Α	А	A	А	А	I	А
Water, fresh	А	А	С	А	А	А	А	А	А	А	А	А
distilled	A	А	С	Α	Α	А	А	A	Α	A	Α	А
Whiskey and wines	А	А	А	С	А	А	А	А	А	А	1	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	А		Α
Zinc sulfate	А	А	А	А	А	А	А	А	A	А	I	A

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

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)

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1.878 (NPSH)