



## HOSE FOR SANITARY AND HIGH PURITY APPLICATIONS

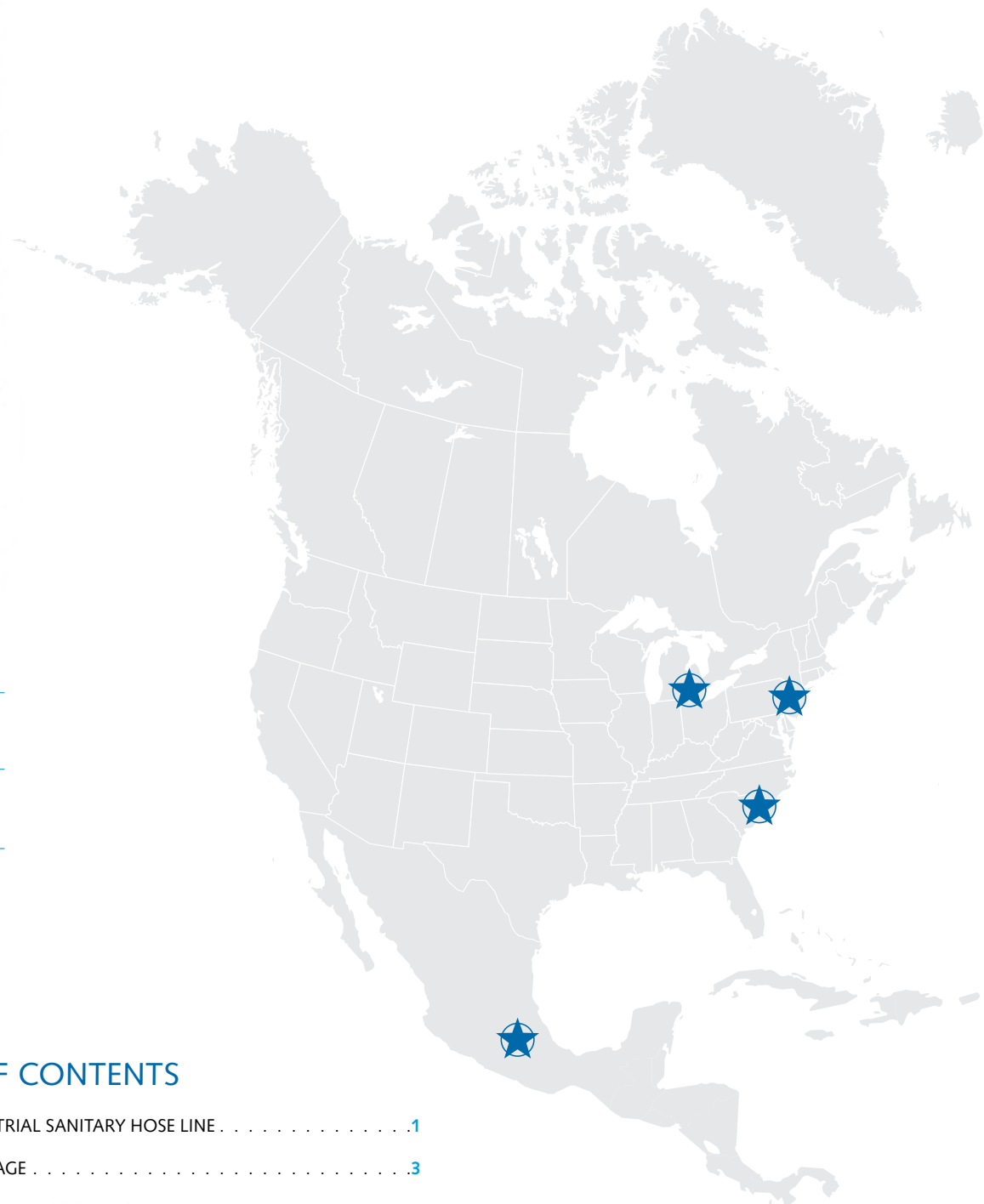


FOOD & BEVERAGE  
PHARMACEUTICAL &  
COSMETIC  
SPECIALTY



# CRP INDUSTRIAL IS YOUR GO-TO SOURCE FOR SANITARY HOSE.

WITH OVER 40 YEARS IN THE HOSE BUSINESS, CRP UNDERSTANDS THE CHALLENGES AND NEEDS OF CUSTOMERS ACROSS ALL INDUSTRIES.



Cranbury, NJ

Conway, SC

Ann Arbor, MI

Puebla, Mexico

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# CRP INDUSTRIAL IS PROUD TO OFFER A HIGH QUALITY LINE OF SANITARY HOSE.

CRP Industrial is proud to offer a complete line of hose for a wide variety of industries including dairy, brewery, cosmetic, and pharmaceutical.

We take enormous pride in our ability to listen and communicate with our customers — and in understanding exactly what they need. No matter what the issue, our highly trained customer service staff stands ready to solve any request. Because of our commitment, CRP has built a lengthy list of high profile clients.

At CRP, we pay great attention to the products we carry, the people we work with, and the way in which we conduct business. In fact, quality, service, and trust are the greatest attributes we offer. These qualities don't have a SKU and they can't be pulled off some warehouse shelf.

## ■ QUALITY CONTROL

CRP is ISO 9001:2015 certified, so customers can rest assured that we have a quality management system in place that delivers service satisfaction from start to finish. Additionally, select hoses meet all applicable government food-safety standards.



## ■ PROMPT TURNAROUND

For many of our customers, a speedy response is crucial. Fortunately, due to our vast selection of stock hose types and fittings, our turnaround time for orders is typically 24 to 48 hours. Of course, if time is of the essence, we may even be able to ship same day.

## ■ TOP-NOTCH SERVICE

A proud member of the FISA, IDCO, and NAHAD organizations, CRP has been an expert in hose assembly fabrication for over 40 years. Led by a team of extraordinary customer service representatives, we excel at understanding and meeting the needs of all our customers — and can even develop a custom-built product based on your specifications.





# ATC

## ARMORED THERMOPLASTIC COVER

### ATC HOSE PRODUCT FEATURES

Cleanability	Bacteria and Microbe Resistant Cover Corrugations Prevent Pooling Ideal for CIP Easy to Clean
Durability	Abrasion Resistant Cover Chemical and Oil Resistant Cover
Handling	Flexible and Lightweight Design Ergonomic Features Easy to Slide
Appearance	Ozone Resistance to Prevent Premature Aging UV Resistance to Hold Color Retains Original Appearance
Selection	Variety of Liners, Designs, and Colors Specialized for Specific Applications Workhorses for Many Applications



## Food & Beverage



### CRP Industrial's Sanitary Food & Beverage hoses are the choice of experts with a taste for the best.

Featuring our Armored Thermoplastic Covers. Built from the core out on a proprietary rigid mandrel frame, CRP Industrial sanitary hoses for the Food & Beverage industry incorporate liners, plies, and covers chosen specifically for each individual application. All are phthalates-free and meet every applicable government food-safety standard in the US, Europe, and Japan — including a 3A Sanitary Standard Class II rating.

Here are just a few benefits designed into CRP Industrial Food & Beverage hoses:

- Abrasion Resistant
- Non-marking
- Corrugated profile prevents fluid ponding when the hose is on the ground
- Easy to clean glossy cover and smooth bore tube
- Mold resistant

CRP Industrial has been offering high-quality hose for over 40 years and is the leading choice of many Food & Beverage companies in North America.

For details, call CRP's US headquarters at 800.526.4066.

# Butyl Armored Thermoplastic Cover

8100 Series

Premium grade, low permeation, extra flexible suction and delivery hose for the food and beverage industry. Features easy-to-clean, abrasion-resistant cover.



### Technical Characteristics:

Temperature Range: -40°F / +248°F  
(-40°C / +120°C)  
Dimensional Tolerance: ISO1307  
Vacuum:: 13 psi (0.9 bar)

### Hose Construction:

- Tube: Bromobutyl (BIIR), white, phthalate-free, tested in compliance with 1907/2006/CE (REACH)  
Meets FDA 21 CFR 177.2600, DM21.03.73 e seguenti, European Reglement 1935/2004/CE, 3A Sanitary Standard Class II
- Reinforcement: Synthetic plies, Galvanized wire helices
- Cover: Wide corrugated, low friction UHMW cover. Non-marking, abrasion, chemical and microbe resistant.
- Color Options:
- Sterilization: See cleaning and sterilizing guidelines for food and beverage hose.

CRP Part Number	Color	Inside Diameter (in)	Outside Diameter (in)	Vacuum: (psi)	Working Pressure (psi)	Burst Pressure (psi)	Weight (lbs/ft)	Bend Radius (in)
8103-100 / 8108-100	<span style="display: inline-block; width: 10px; height: 10px; background-color: red; margin-right: 5px;"></span> <span style="display: inline-block; width: 10px; height: 10px; background-color: gray; margin-right: 5px;"></span>	1.00	1.46	13	150	450	0.55	2.76
8103-150 / 8108-150	<span style="display: inline-block; width: 10px; height: 10px; background-color: red; margin-right: 5px;"></span> <span style="display: inline-block; width: 10px; height: 10px; background-color: gray; margin-right: 5px;"></span>	1.50	2.03	13	150	450	0.82	3.15
8103-200 / 8108-200	<span style="display: inline-block; width: 10px; height: 10px; background-color: red; margin-right: 5px;"></span> <span style="display: inline-block; width: 10px; height: 10px; background-color: gray; margin-right: 5px;"></span>	2.00	2.60	13	150	450	1.27	3.94
8103-250 / 8108-250	<span style="display: inline-block; width: 10px; height: 10px; background-color: red; margin-right: 5px;"></span> <span style="display: inline-block; width: 10px; height: 10px; background-color: gray; margin-right: 5px;"></span>	2.50	3.09	13	150	450	1.54	5.12
8103-300 / 8108-300	<span style="display: inline-block; width: 10px; height: 10px; background-color: red; margin-right: 5px;"></span> <span style="display: inline-block; width: 10px; height: 10px; background-color: gray; margin-right: 5px;"></span>	3.00	3.62	13	150	450	1.94	5.91
8103-400 / 8108-400	<span style="display: inline-block; width: 10px; height: 10px; background-color: red; margin-right: 5px;"></span> <span style="display: inline-block; width: 10px; height: 10px; background-color: gray; margin-right: 5px;"></span>	4.00	4.65	13	150	450	2.53	9.84

# Butyl Armored Thermoplastic Cover HD

8120 Series

Premium grade, heavy duty, low permeation, extra flexible suction and delivery hose for the food and beverage industry. Features easy-to-clean, abrasion-resistant cover.



### Technical Characteristics:

Temperature Range: -40°F / +248°F  
(-40°C / +120°C)  
Dimensional Tolerance: ISO1307  
Vacuum:: 13 psi (0.9 bar)

### Hose Construction:

- Tube: Bromobutyl (BIIR), white, phthalate-free, tested in compliance with 1907/2006/CE (REACH)  
Meets FDA 21 CFR 177.2600, DM21.03.73 e seguenti, European Reglement 1935/2004/CE, 3A Sanitary Standard Class II
- Reinforcement: Synthetic plies, Galvanized wire helices
- Cover: Wide corrugated, low friction UHMW cover. Non-marking, abrasion, chemical and microbe resistant.
- Color Options:
- Sterilization: See cleaning and sterilizing guidelines for food and beverage hose.

CRP Part Number	Color	Inside Diameter (in)	Outside Diameter (in)	Vacuum: (psi)	Working Pressure (psi)	Burst Pressure (psi)	Weight (lbs/ft)	Bend Radius (in)
8123-100 / 8128-100	<span style="display: inline-block; width: 10px; height: 10px; background-color: red; margin-right: 5px;"></span> <span style="display: inline-block; width: 10px; height: 10px; background-color: gray; margin-right: 5px;"></span>	1.00	1.52	13	250	900	0.60	4.13
8123-150 / 8128-150	<span style="display: inline-block; width: 10px; height: 10px; background-color: red; margin-right: 5px;"></span> <span style="display: inline-block; width: 10px; height: 10px; background-color: gray; margin-right: 5px;"></span>	1.50	2.09	13	250	900	0.87	4.72
8123-200 / 8128-200	<span style="display: inline-block; width: 10px; height: 10px; background-color: red; margin-right: 5px;"></span> <span style="display: inline-block; width: 10px; height: 10px; background-color: gray; margin-right: 5px;"></span>	2.00	2.66	13	250	900	1.34	5.91
8123-250 / 8128-250	<span style="display: inline-block; width: 10px; height: 10px; background-color: red; margin-right: 5px;"></span> <span style="display: inline-block; width: 10px; height: 10px; background-color: gray; margin-right: 5px;"></span>	2.50	3.19	13	250	900	1.75	7.68
8123-300 / 8128-300	<span style="display: inline-block; width: 10px; height: 10px; background-color: red; margin-right: 5px;"></span> <span style="display: inline-block; width: 10px; height: 10px; background-color: gray; margin-right: 5px;"></span>	3.00	3.72	13	250	900	2.19	8.86
8123-400 / 8128-400	<span style="display: inline-block; width: 10px; height: 10px; background-color: red; margin-right: 5px;"></span> <span style="display: inline-block; width: 10px; height: 10px; background-color: gray; margin-right: 5px;"></span>	4.00	4.75	13	250	900	2.84	14.76

# Butyl Crush Resistant ATC

8110 Series









Premium food and beverage hose featuring low permeation. This hose features synthetic plies that allow the hose to rebound.

**Technical Characteristics:**

Temperature Range: -40°F / +212°F  
(-40°C / +100°C)  
Dimensional Tolerance: ISO1307

**Hose Construction:**

- Tube: Bromobutyl (BIIR), white, phthalate-free, complies with 1907/2006/CE (REACH), FDA 21 CFR 177.2600, DM21.03.73 e seguenti, European Reglement 1935/2004/CE, 3A Sanitary Standard Class II
- Reinforcement: Synthetic plies, Synthetic wire helices
- Cover: Wide corrugated, low friction UHMW cover. Non-marking, abrasion, chemical and microbe resistant
- Color Options: 
- Sterilization: See cleaning and sterilizing guidelines for food and beverage hose.

CRP Part Number	Color	Inside Diameter (in)	Outside Diameter (in)	Vacuum: (psi)	Working Pressure (psi)	Burst Pressure (psi)	Weight (lbs/ft)	Bend Radius (in)
8113-100		1.00	1.61	13	200	600	0.97	6.69
8113-150		1.50	2.17	13	200	600	0.97	6.69
8113-200		2.00	2.64	13	200	600	1.23	9.44
8113-250		2.50	3.21	13	200	600	1.66	12.2
8113-300		3.00	3.7	13	200	600	1.94	14.96

# Nitrile Armored Thermoplastic Cover

8300 Series










Premium grade suction and delivery hose specialized for fatty food products. Ideally suited for milk and dairy applications. Features easy-to-clean, abrasion-resistant cover.

**Technical Characteristics:**

Temperature Range: -4°F / +194°F  
(-20°C / +90°C)  
Dimensional Tolerance: ISO1307  
Vacuum:: 13 psi (0.9 bar)

**Hose Construction:**

- Tube: Nitrile (NBR), white, phthalate-free, tested in compliance with 1907/2006/CE (REACH) Meets FDA 21 CFR 177.2600, DM21.03.73 e seguenti, European Reglement 1935/2004/CE, 3A Sanitary Standard Class II
- Reinforcement: Synthetic plies, Galvanized wire helices
- Cover: Wide corrugated, low friction UHMW cover. Non-marking, abrasion, chemical and microbe resistant.
- Color Options: 
- Sterilization: See cleaning and sterilizing guidelines for food and beverage hose.

CRP Part Number	Color	Inside Diameter (in)	Outside Diameter (in)	Vacuum: (psi)	Working Pressure (psi)	Burst Pressure (psi)	Weight (lbs/ft)	Bend Radius (in)
8301-100		1.00	1.46	13	150	450	0.54	2.76
8301-150		1.50	2.03	13	150	450	0.82	3.15
8301-200		2.00	2.60	13	150	450	1.27	3.94
8301-250		2.50	3.09	13	150	450	1.54	5.12
8301-300		3.00	3.62	13	150	450	1.94	5.91
8301-400		4.00	4.65	13	150	450	2.53	9.84



# EPDM Armored Thermoplastic Cover

8400 Series

Premium grade suction and delivery hose specialized for acidic food products. Ideally suited for a wide range of food and beverage products.



### Technical Characteristics:

Temperature Range: -40°F / +248°F  
(-40°C / +120°C)  
Dimensional Tolerance: ISO1307  
Vacuum:: 13 psi (0.9 bar)

### Hose Construction:

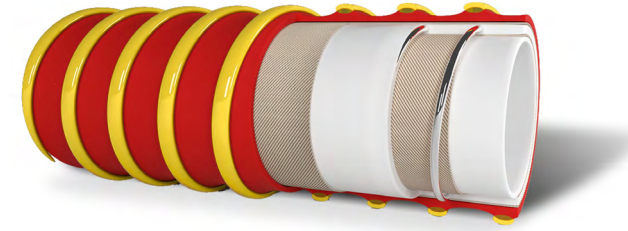
- Tube: EPDM, white, phthalate-free, tested in compliance with 1907/2006/CE (REACH) Meets FDA 21 CFR 177.2600, DM21.03.73 e seguenti, European Reglement 1935/2004/CE, 3A Sanitary Standard Class II
- Reinforcement: Synthetic plies, Galvanized wire helices
- Cover: Wide corrugated, low friction UHMW cover. Non-marking, abrasion, chemical and microbe resistant.
- Color Options: ■
- Sterilization: See cleaning and sterilizing guidelines for food and beverage hose.

CRP Part Number	Color	Inside Diameter (in)	Outside Diameter (in)	Vacuum: (psi)	Working Pressure (psi)	Burst Pressure (psi)	Weight (lbs/ft)	Bend Radius (in)
8406-100	<span style="color: green;">■</span>	1.00	1.46	13	150	450	0.54	2.76
8406-150	<span style="color: green;">■</span>	1.50	2.03	13	150	450	0.82	3.15
8406-200	<span style="color: green;">■</span>	2.00	2.60	13	150	450	1.27	3.94
8406-250	<span style="color: green;">■</span>	2.50	3.09	13	150	450	1.54	5.12
8406-300	<span style="color: green;">■</span>	3.00	3.62	13	150	450	1.94	5.91
8406-400	<span style="color: green;">■</span>	4.00	4.65	13	150	450	2.53	9.84

# SRT Butyl

8170 Series

Premium suction and delivery hose for transfer of food and beverage products with low permeability tube well suited for wine and spirits.



### Technical Characteristics:

Temperature Range: -13°F / +176°F  
(-25°C / +80°C)  
Dimensional Tolerance: ISO1307

### Hose Construction:

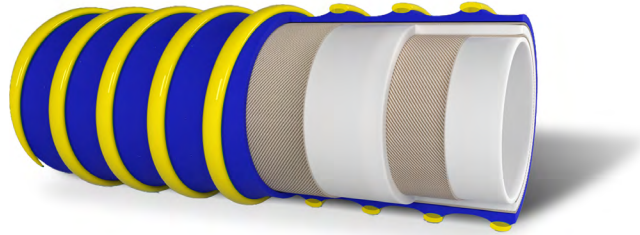
- Tube: Bromobutyl (BIIR), white, phthalate-free, complies with 1907/2006/CE (REACH), FDA 21 CFR 177.2600, DM21.03.73 e seguenti, European Reglement 1935/2004/CE, 3A Sanitary Standard Class II
- Reinforcement: Synthetic plies, External thermoplastic helix
- Cover: Corrugated rubber cover with thermoplastic helix
- Color Options: ■
- Sterilization: See cleaning and sterilizing guidelines for food and beverage hose.

CRP Part Number	Color	Inside Diameter (in)	Outside Diameter (in)	Vacuum: (psi)	Working Pressure (psi)	Burst Pressure (psi)	Weight (lbs/ft)	Bend Radius (in)
8173-150P	<span style="color: red;">■</span>	1.50	-	13	150	450	0.82	3.15
8173-200P	<span style="color: red;">■</span>	2.00	-	13	150	450	1.09	3.94
8173-250P	<span style="color: red;">■</span>	2.50	-	11.5	150	450	1.32	5.12
8173-300P	<span style="color: red;">■</span>	3.00	-	11.5	150	450	1.72	5.91
8173-400P	<span style="color: red;">■</span>	4.00	-	10	150	450	2.26	7.87

# SRT Nitrile

8370 Series


Lightweight and flexible tank transfer hose designed for fatty and oily food products. Well suited for dairies.








### Technical Characteristics:

Temperature Range: -13°F / +176°F  
(-25°C / +80°C)  
Dimensional Tolerance: ISO1307

### Hose Construction:

- Tube: Nitrile (NBR), white, phthalate-free, complies with 1907/2006/CE (REACH), FDA 21 CFR 177.2600, DM21.03.73 e seguenti, European Reglement 1935/2004/CE, 3A Sanitary Standard Class II
- Reinforcement: Synthetic plies, External thermoplastic helix
- Cover: Corrugated rubber cover with thermoplastic helix
- Color Options: 
- Sterilization: See cleaning and sterilizing guidelines for food and beverage hose.

CRP Part Number	Color	Inside Diameter (in)	Outside Diameter (in)	Vacuum: (psi)	Working Pressure (psi)	Burst Pressure (psi)	Weight (lbs/ft)	Bend Radius (in)
8371-150P		1.50	-	13	150	450	0.81	3.15
8371-200P		2.00	-	13	150	450	1.09	3.94
8371-250P		2.50	-	11.5	150	450	1.31	5.12
8371-300P		3.00	-	11.5	150	450	1.59	5.91
8371-400P		4.00	-	10	150	450	2.05	7.87

# Distillery Armored Thermoplastic Cover

8200 Series


Specialized low permeation suction and delivery hose for the food and beverage industry. Developed for distilleries and food and beverage sites with aggressive cleaning procedures.









### Technical Characteristics:

Temperature Range: -31°F / +212°F  
(-35°C / +100°C)  
Dimensional Tolerance: ISO1307  
Vacuum: 13 psi (0.9 bar)

### Hose Construction:

- Tube: UHMWPE, white, phthalate-free, tested in compliance with 1907/2006/CE (REACH) Meets FDA 21 CFR 177.1520, DM21.03.73 e seguenti, European Reglement 1935/2004/CE, 3A Sanitary Standard Class II
- Reinforcement: Synthetic plies, Galvanized wire helices, Antistatic copper wire
- Cover: Wide corrugated, low friction UHMW cover. Non-marking, abrasion, chemical and microbe resistant.
- Color Options: 
- Sterilization: See cleaning and sterilizing guidelines for food and beverage hose.

CRP Part Number	Color	Inside Diameter (in)	Outside Diameter (in)	Vacuum: (psi)	Working Pressure (psi)	Burst Pressure (psi)	Weight (lbs/ft)	Bend Radius (in)
8206-100		1.00	1.46	13	150	450	0.54	0.54
8206-150		1.50	1.97	13	150	450	0.76	0.76
8206-200		2.00	2.56	13	150	450	1.21	1.21
8206-250		2.50	3.05	13	150	450	1.47	1.47
8206-300		3.00	3.58	13	150	450	1.88	1.88
8206-400		4.00	4.61	13	150	450	2.46	2.46

# Hot Oil Hose

8389 Series

Premium grade suction and delivery hose designed for hot oil. Specifically designed for the rigorous application of hot oil suction and recycling.



**Technical Characteristics:**

- Temperature Range: -40°F / +302°F (-40°C / +150°C)
- Dimensional Tolerance: ISO1307
- Vacuum: 13 psi (0.9 bar)

**Hose Construction:**

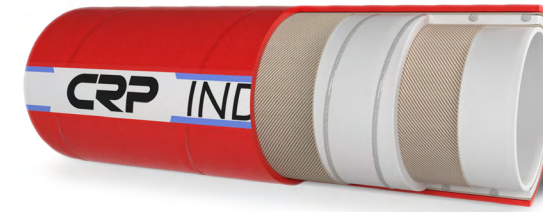
- Tube: HNBR, white, phthalate-free, tested in compliance with 1907/2006/CE (REACH) Meets FDA 21 CFR 177.2600, DM21.03.73 e seguenti, European Reglement 1935/2004/CE, 3A Sanitary Standard Class II
- Reinforcement: Synthetic plies, Galvanized wire helices
- Cover: Smooth, oil resistant rubber cover
- Color Options:
- Sterilization: See cleaning and sterilizing guidelines for food and beverage hose.

CRP Part Number	Color	Inside Diameter (in)	Outside Diameter (in)	Vacuum: (psi)	Working Pressure (psi)	Burst Pressure (psi)	Weight (lbs/ft)	Bend Radius (in)
8389-050	<input type="checkbox"/>	0.50	0.94	13	250	750	0.39	2.36
8389-075	<input type="checkbox"/>	0.75	1.22	13	250	750	0.47	3.35
8389-100	<input type="checkbox"/>	1.00	1.42	13	250	750	0.50	3.94

# Wrapped Wash Down

1016W Series

Softwall hot water discharge hose for floor and equipment wash down in dairies, creameries, food processing plants, and paper mills, etc.



**Technical Characteristics:**

- Temperature Range: -40°F / +176°F (-40°C / +80°C)

**Hose Construction:**

- Tube: White, smooth, SBR rubber
- Reinforcement: High strength synthetic cord
- Cover: Color based, smooth, (wrapped finish) EPDM, weathering and ozone resistant
- Color Options:  Other colors available upon request.
- Sterilization: See cleaning and sterilizing guidelines for food and beverage hose.

CRP Part Number	Color	Inside Diameter (in)	Outside Diameter (in)	Vacuum: (psi)	Working Pressure (psi)	Burst Pressure (psi)	Weight (lbs/ft)	Bend Radius (in)
1016WHW	<input type="checkbox"/>	0.625	1.00	N/A	150	450	0.25	N/A



# Extruded Wash Down

1016E Series



Hot water washing hose in food environment with excellent resistance to high temperatures. Suitable for hygienic operations in dairies, canneries, slaughterhouses, and all food processing industries.

**Technical Characteristics:**

Temperature Range: -4°F / +203°F  
(-20°C / +95°C)

**Hose Construction:**

- Tube: White, seamless synthetic rubber, phthalate-free, fat resistant, made with materials in compliance with FDA tit 21 art. 177.2600 and BfR XXI Cat.3.
- Reinforcement: High strength synthetic fabrics.
- Cover: Antimicrobial, seamless synthetic rubber, made with materials in compliance with ISO 22196:2011. Aging, ozone, and fat resistant.
- Color Options:  Other colors available upon request.
- Sterilization: See cleaning and sterilizing guidelines for food and beverage hose.

CRP Part Number	Color	Inside Diameter (in)	Outside Diameter (in)	Vacuum: (psi)	Working Pressure (psi)	Burst Pressure (psi)	Weight (lbs/ft)	Bend Radius (in)
1016-WEX	<input type="checkbox"/>	0.625	1.00	N/A	150	450	0.29	N/A

# CRP ATC PTFE

8751 Series



Top of the line suction and delivery hose for nearly all food, beverage, and high sanitary applications. The PTFE tube combines flexibility and purity with elite chemical resistance. Features highly cleanable UHMW cover.

**Technical Characteristics:**

Temperature Range: -40°F / +302°F  
(-40°C / +150°C)  
Dimensional Tolerance: EN12115  
Vacuum: 13 psi (0.9 bar)

**Hose Construction:**

- Tube: PTFE, White, complies with 1907/2006/CE (REACH), FDA 21 CFR 177.2600, DM21.03.73 e seguenti, European Reglement 1935/2004/CE, USP Class VI, ISO 10993 Sections 5, 10, 11:2009
- Reinforcement: Synthetic plies, Stainless steel wire helices, Antistatic copper wire
- Cover: Corrugated silicone cover for extreme flexibility and temperature resistance
- Color Options:
- Sterilization: See cleaning and sterilizing guidelines.

CRP Part Number	Color	Inside Diameter (in)	Outside Diameter (in)	Vacuum: (psi)	Working Pressure (psi)	Burst Pressure (psi)	Weight (lbs/ft)	Bend Radius (in)
8751-050	<input checked="" type="checkbox"/>	0.50	0.98	13	150	600	0.33	2.76
8751-075	<input checked="" type="checkbox"/>	0.75	1.22	13	150	600	0.43	3.94
8751-100	<input checked="" type="checkbox"/>	1.00	1.45	13	150	600	0.52	5.12
8751-150	<input checked="" type="checkbox"/>	1.50	2.00	13	150	600	0.79	7.48
8751-200	<input checked="" type="checkbox"/>	1.97	2.60	13	150	600	1.28	9.84
8751-250	<input checked="" type="checkbox"/>	2.50	3.13	13	150	600	1.62	12.60
8751-300	<input checked="" type="checkbox"/>	2.95	3.58	13	150	600	1.89	14.96

# Pharmaceutical & Cosmetic

## Silicone

9000 Series



Platinum cured silicone suction and delivery hose designed for pharmaceutical and cosmetic applications. Features high flexibility, high purity, and extraordinary temperature resistance. Manufactured in an ISO class 8 cleanroom.

### Technical Characteristics:

Temperature Range:	-76°F / +392°F (-60°C / +200°C)
Dimensional Tolerance:	ISO 1307
Vacuum:	13 psi (0.9 bar)

### Hose Construction:

Tube:	Silicone, clear, manufactured in an ISO class 8 cleanroom, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, DM21.03.73 e seguenti, European Reglement 1935/2004/CE, 3A Sanitary Standard Class II, USP Class VI, ISO10993 Sections 5, 10, 11:2009
Reinforcement:	Synthetic plies, Stainless steel helices
Cover:	Smooth, translucent silicone cover
Color Options:	<input type="checkbox"/>

## The beauty of CRP Industrial Pharmaceutical & Cosmetic hoses is more than skin deep.

Built from the core out on a proprietary rigid mandrel frame, CRP Industrial high-purity pharmaceutical hoses for the pharmaceutical and cosmetic industries incorporate liners and plies to accommodate a myriad of sanitary applications. Liners are available in PTFE; plus the Platinum-Cured Silicone liner in our silicone series of hoses. Select hoses are designed for applications where static electricity can build up, helping avoid dangerous discharges.

Here are a few benefits designed into CRP Industrial Pharmaceutical & Cosmetic hoses:

- Ozone Resistant Cover (abrasion resistant in many cases)
- Flexible hoses allow for easier routing
- Choice of liners specific to applications

CRP Industrial has been offering high-quality hose for over 40 years and is the leading choice of many pharmaceutical and cosmetic companies in North America.

For details, call CRP's US headquarters at 800.526.4066.

CRP Part Number	Color	Inside Diameter (in)	Outside Diameter (in)	Vacuum: (psi)	Working Pressure (psi)	Burst Pressure (psi)	Weight (lbs/ft)	Bend Radius (in)
9000-050	<input type="checkbox"/>	0.50	0.94	13	225	675	0.31	2.36
9000-075	<input type="checkbox"/>	0.75	1.18	13	195	585	0.40	3.15
9000-100	<input type="checkbox"/>	1.00	1.42	13	150	450	0.49	3.94
9000-150	<input type="checkbox"/>	1.50	1.97	13	105	315	0.81	6.10
9000-200	<input type="checkbox"/>	2.00	2.52	13	90	270	1.05	8.27
9000-250	<input type="checkbox"/>	2.50	3.09	13	75	225	1.55	10.24
9000-300	<input type="checkbox"/>	3.00	3.54	13	60	180	1.82	12.20

# Silicone/D

9010 Series



Platinum cured silicone delivery only hose designed for pharmaceutical and cosmetic applications. Features high flexibility, high purity, and extraordinary temperature resistance. Manufactured in an ISO class 8 cleanroom.

**Technical Characteristics:**

Temperature Range: -76°F / +392°F  
(-60°C / +200°C)  
Dimensional Tolerance: ISO 1307

**Hose Construction:**

- Tube: Silicone, clear, manufactured in an ISO class 8 cleanroom, tested in compliance with 1907/2006/CE (REACH). Meets FDA 21 CFR 177.2600, DM21.03.73 e seguenti, European Reglement 1935/2004/CE, 3A Sanitary Standard Class II, USP Class VI, ISO10993 Sections 5, 10, 11:2009
- Reinforcement: Synthetic plies
- Cover: Smooth, translucent silicone cover
- Color Options:

CRP Part Number	Color	Inside Diameter (in)	Outside Diameter (in)	Vacuum: (psi)	Working Pressure (psi)	Burst Pressure (psi)	Weight (lbs/ft)	Bend Radius (in)
9010-050	<input type="checkbox"/>	0.50	1.00	-	225	675	0.27	-
9010-075	<input type="checkbox"/>	0.75	1.22	-	195	585	0.37	-
9010-100	<input type="checkbox"/>	1.00	1.46	-	150	450	0.46	-
9010-150	<input type="checkbox"/>	1.50	1.97	-	105	315	0.64	-
9010-200	<input type="checkbox"/>	2.00	2.48	-	90	270	0.83	-
9010-250	<input type="checkbox"/>	2.50	3.01	-	75	225	1.13	-
9010-300	<input type="checkbox"/>	3.00	3.50	-	60	180	1.33	-

# CRP PTFE Pharma

7959 Series



Top of the line suction and delivery hose for nearly all pharmaceutical and cosmetic applications. The PTFE tube combines flexibility and purity with elite chemical resistance.

**Technical Characteristics:**

Temperature Range: -40°F / +302°F  
(-40°C / +150°C)  
Dimensional Tolerance: EN12115  
Vacuum: 13 psi (0.9 bar)

**Hose Construction:**

- Tube: White PTFE, clear/white, phthalate-free, complies with 1907/2006/CE (REACH), FDA 21 CFR 177.2600, DM21.03.73 e seguenti, European Reglement 1935/2004/CE, USP Class VI, ISO 10993 Sections 5, 10, 11:2009
- Reinforcement: Synthetic plies, Stainless steel wire helices, Antistatic copper wire
- Cover: White, abrasion resistant EPDM cover
- Color Options:
- Sterilization: See cleaning and sterilizing guidelines.

CRP Part Number	Color	Inside Diameter (in)	Outside Diameter (in)	Vacuum: (psi)	Working Pressure (psi)	Burst Pressure (psi)	Weight (lbs/ft)	Bend Radius (in)
7959-075	<input type="checkbox"/>	0.75	1.22	13	250	1000	0.47	5.12
7959-100	<input type="checkbox"/>	1.00	1.46	13	250	1000	0.58	6.69
7959-150	<input type="checkbox"/>	1.50	2.00	13	250	1000	0.96	10.04
7959-200	<input type="checkbox"/>	1.97	2.60	13	250	1000	1.39	12.99
7959-250	<input type="checkbox"/>	2.50	3.13	13	250	1000	1.98	16.93
7959-300	<input type="checkbox"/>	2.95	3.58	13	250	1000	2.30	20.08
7959-400	<input type="checkbox"/>	3.94	4.57	13	250	1000	3.08	26.57



# CRP PTFE Sil

## 9159 Series



Top of the line ultra flexible suction and delivery hose for nearly all industrial chemicals. The PTFE tube combines flexibility and purity with elite chemical resistance.

### Technical Characteristics:

Temperature Range: -40°F / +302°F  
 (-40°C / +150°C)  
 Dimensional Tolerance: ISO 1307  
 Vacuum: 13 psi (0.9 bar)

### Hose Construction:

- Tube: Coextruded virgin PTFE, clear/white, phthalate-free, complies with 1907/2006/CE (REACH), FDA 21 CFR 177.1550, DM21.03.73 e seguenti, European Reglement 1935/2004/CE, USP Class VI, ISO 10993 Sections 5, 10, 11:2009
- Reinforcement: Synthetic plies, Stainless steel wire helices, Antistatic copper wire
- Cover: White silicone cover for extreme flexibility and temperature resistance
- Color Options:
- Sterilization: See cleaning and sterilizing guidelines.

CRP Part Number	Color	Inside Diameter (in)	Outside Diameter (in)	Vacuum: (psi)	Working Pressure (psi)	Burst Pressure (psi)	Weight (lbs/ft)	Bend Radius (in)
9159-050	<input type="checkbox"/>	0.50	0.94	13	150	600	0.31	1.77
9159-075	<input type="checkbox"/>	0.75	1.18	13	150	600	0.41	2.76
9159-100	<input type="checkbox"/>	1.00	1.42	13	150	600	0.51	3.54
9159-150	<input type="checkbox"/>	1.50	1.97	13	105	420	0.84	5.51
9159-200	<input type="checkbox"/>	1.97	2.44	13	105	420	1.07	7.09
9159-250	<input type="checkbox"/>	2.50	3.13	13	90	360	1.80	12.60
9159-300	<input type="checkbox"/>	2.95	3.58	13	75	300	2.17	14.96

# Specialty



## CRP Industrial Specialty hoses keep production lines running.

Built from the core out on a proprietary rigid mandrel frame, CRP Industrial hoses incorporate liners, plies, and covers chosen specifically for each individual application. Liners are available in NBR, Silicone, PTFE, PFA, FEP, UHMW, and EPDM.

Here are just a few benefits designed into CRP Industrial Specialty hoses:

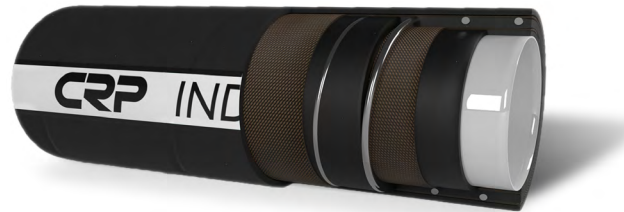
- Abrasion resistant covers
- Integrated static discharge elements in selected hoses
- Choice of liners specific to applications

CRP Industrial has been offering high-quality hose for over 40 years and is the leading choice of many companies in North America.

For details, call CRP's US headquarters at 800.526.4066.

# CRP FEP Chem

7942 Series



Top of the line suction and delivery hose for nearly all industrial chemicals. The PTFE tube combines flexibility and purity with elite chemical resistance.

### Technical Characteristics:

Temperature Range:	-40°F / +302°F (-40°C / +150°C)
Dimensional Tolerance:	EN12115
Vacuum:	13 psi (0.9 bar)

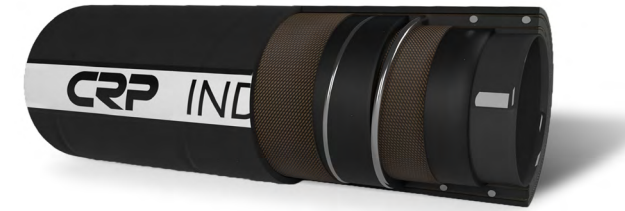
### Hose Construction:

Tube:	Fluorinated Ethylene Propylene (FEP), clear/white, phthalate-free, complies with 1907/2006/CE (REACH), FDA 21 CFR 177.2600, DM21.03.73 e seguenti, European Reglement 1935/2004/CE, USP Class VI
Reinforcement:	Synthetic plies, Stainless steel wire helices, Antistatic copper wire
Cover:	Smooth, abrasion resistant EPDM cover
Color Options:	■
Sterilization:	See cleaning and sterilizing guidelines.

CRP Part Number	Color	Inside Diameter (in)	Outside Diameter (in)	Vacuum: (psi)	Working Pressure (psi)	Burst Pressure (psi)	Weight (lbs/ft)	Bend Radius (in)
7942-075	■	0.75	1.22	13	250	1000	0.47	5.12
7942-100	■	1.00	1.46	13	250	1000	0.58	6.69
7942-150	■	1.50	2.00	13	250	1000	0.96	10.04
7942-200	■	1.97	2.60	13	250	1000	1.39	12.99
7942-250	■	2.50	3.13	13	250	1000	1.98	16.93
7942-300	■	2.95	3.58	13	250	1000	2.30	20.08
7942-400	■	3.94	4.57	13	250	1000	3.08	26.57

# PTFE Chem FC

7962 Series



Top of the line suction and delivery hose for nearly all industrial chemicals. The PTFE tube combines flexibility and purity with elite chemical resistance. The conductivity allows for safe operation with flammable and explosive materials.

### Technical Characteristics:

Temperature Range:	-40°F / +302°F (-40°C / +150°C)
Dimensional Tolerance:	EN12115
Vacuum:	13 psi (0.9 bar)

### Hose Construction:

Tube:	Fully Conductive PTFE, black, Conductive (Type Ω/T) according to EN12115 Standards, complies with 1907/2006/CE (REACH), FDA 21 CFR 177.1550, DM21.03.73 e seguenti, European Reglement 1935/2004/CE, USP Class VI, ISO 10993 Sections 5, 10, 11:2009
Reinforcement:	Synthetic plies, Stainless steel wire helices, Antistatic copper wire
Cover:	Smooth, abrasion resistant EPDM cover
Color Options:	■
Sterilization:	See cleaning and sterilizing guidelines.

CRP Part Number	Color	Inside Diameter (in)	Outside Diameter (in)	Vacuum: (psi)	Working Pressure (psi)	Burst Pressure (psi)	Weight (lbs/ft)	Bend Radius (in)
7962-075	■	0.75	1.22	13	250	1000	0.47	5.12
7962-100	■	1.00	1.46	13	250	1000	0.58	6.69
7962-150	■	1.50	2.00	13	250	1000	0.96	10.04
7962-200	■	1.97	2.60	13	250	1000	1.39	12.99
7962-250	■	2.50	3.13	13	250	1000	1.98	16.93
7962-300	■	2.95	3.58	13	250	1000	2.30	20.08
7962-400	■	3.94	4.57	13	250	1000	3.08	26.57

# EPDM Chem

9802 Series



Suction and delivery hose for a wide variety of industrial chemicals. Fully conductive hose designed for use in Atex areas (Ex-Zone).

### Technical Characteristics:

Temperature Range:	-40°F / +248°F (-40°C / +120°C)
Dimensional Tolerance:	EN12115
Vacuum:	13 psi (0.9 bar)

### Hose Construction:

Tube:	EPDM, Black, Conductive (Type Ω/T)
Reinforcement:	Synthetic plies, Galvanized steel wire helices, Antistatic copper wire
Cover:	Smooth, abrasion resistant EPDM cover
Color Options:	■

CRP Part Number	Color	Inside Diameter (in)	Outside Diameter (in)	Vacuum: (psi)	Working Pressure (psi)	Burst Pressure (psi)	Weight (lbs/ft)	Bend Radius (in)
9802-100	■	1.00	1.46	13	250	1000	0.54	3.54
9802-150	■	1.50	2.00	13	250	1000	0.87	6.10
9802-200	■	2.00	2.64	13	250	1000	1.45	8.46
9802-250	■	2.50	3.13	13	250	1000	1.92	10.83
9802-300	■	3.00	3.62	13	250	1000	2.31	12.99
9802-400	■	4.00	4.65	13	250	1000	2.99	17.72

# UHMW Chem FC

8782 Series



Fully conductive suction and delivery hose for a wide variety of industrial chemicals. The thermoplastic tube provides enhanced chemical resistance.

### Technical Characteristics:

Temperature Range:	-31°F / +212°F (-35°C / +100°C)
Dimensional Tolerance:	EN12115
Vacuum:	13 psi (0.9 bar)

### Hose Construction:

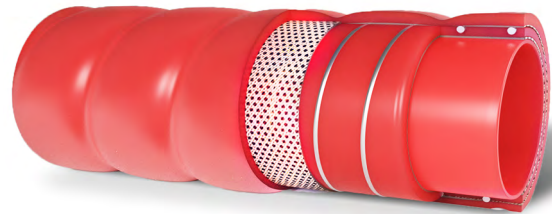
Tube:	UHMW, clear/black, phthalate-free, Conductive (Type Ω/T), complies with 1907/2006/CE (REACH), FDA 21 CFR 177.1520, DM21.03.73 e seguenti, European Reglement 1935/2004/CE
Reinforcement:	Synthetic plies, Galvanized steel wire helices, Antistatic copper wire
Cover:	Smooth, abrasion resistant EPDM cover
Color Options:	■

CRP Part Number	Color	Inside Diameter (in)	Outside Diameter (in)	Vacuum: (psi)	Working Pressure (psi)	Burst Pressure (psi)	Weight (lbs/ft)	Bend Radius (in)
8782-100	■	1.00	1.46	13	250	1000	0.62	6.10
8782-150	■	1.50	2.00	13	250	1000	0.93	9.45
8782-200	■	2.00	2.64	13	250	1000	1.56	12.99
8782-250	■	2.50	3.13	13	250	1000	2.07	16.34
8782-300	■	3.00	3.62	13	250	1000	2.42	19.69
8782-400	■	4.00	4.65	13	250	1000	3.13	26.57



# Silicone SPC

## 9203 Series








Hard-wall corrugated silicone hose is appropriate for use in cooling systems of automobiles and commercial vehicle engines in locations requiring strong temperature tolerance. Designed for hot air, exhaust air, fluid mixture and oil. Flame retardant compound per ASTM C-542.

### Technical Characteristics:

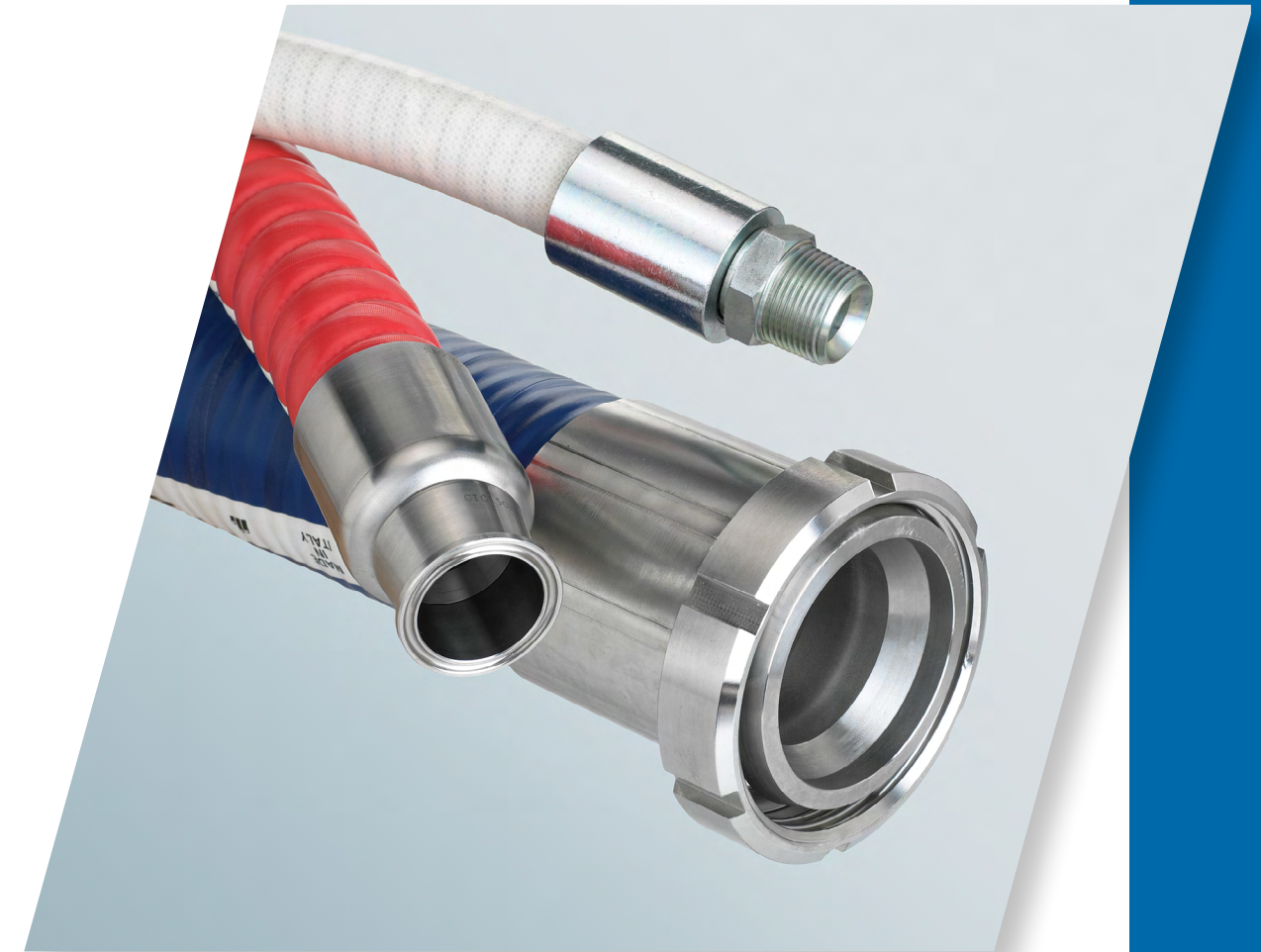
Temperature Range:	Air -58°F / +392 °F (-50°C / +200 °C )
	Liquid -40°F / +212 °F (-40°C / +100 °C)
Standards:	SAE J20R2 CLASS A ASTM C-542
Vacuum:	13 psi (0.9 bar)

### Hose Construction:

Tube:	Smooth colored silicone
Reinforcement:	Synthetic cord and helix wire
Cover:	Corrugated, shiny silicone rubber. Flame retardant according to ASTM C-542.
Color Options:	

CRP Part Number	Color	Inside Diameter (in)	Outside Diameter (in)	Vacuum: (psi)	Working Pressure (psi)	Burst Pressure (psi)	Weight (lbs/ft)	Bend Radius (in)
9203-136		1.1875	N/A	13	45	135	0.56	3.94
9203-200		2.00	N/A	13	45	135	0.88	7.87
9203-250		2.50	N/A	13	45	135	1.03	10.6
9203-300		3.00	N/A	13	45	135	1.33	13.78

# Fittings & Accessories



## CRP Industrial Hose Fittings and Accessories

CRP Industrial offers a variety of internally expanded and externally crimped fittings for sanitary applications. These fittings reduce the potential for bacterial buildup at the end of the stem and the inner liner of the hose.

The uniform crimp pressure eliminates leaking and off-gassing at the interface between the stem and the hose. Chemical and petrochemical hoses can also benefit from the reduced leak path.

Additional fittings and accessories are available upon request.

CRP Industrial has been offering high-quality hose for over 40 years and is a leading choice of sanitary hose accessories for many companies in North America.

For details, call CRP's US headquarters at 800.526.4066.

## Tri-Clamp

Expanded



Hose ID	Fitting Part Number
1"	100EXTC
1.5"	150EXTC
2"	200EXTC
2.5"	250EXTC
3"	300EXTC
4"	400EXTC

Expanded

## I-Line, Female



Hose ID	Fitting Part Number
1.5"	150EXFIL
2"	200EXFIL
2.5"	250EXFIL
3"	300EXFIL
4"	400EXFIL

Expanded



Hose ID	Fitting Part Number	Nut Part Number
1.5"	150EXTBF	150EXTBFNUT
2"	200EXTBF	200EXTBFNUT
2.5"	250EXTBF	250EXTBFNUT
3"	300EXTBF	300EXTBFNUT
4"	400EXTBF	400EXTBFNUT

Expanded

## I-Line, Male



Hose ID	Fitting Part Number
1.5"	150EXMIL
2"	200EXMIL
2.5"	250EXMIL
3"	300EXMIL
4"	400EXMIL

Expanded



Hose ID	Fitting Part Number
1.5"	150EXNPT
2"	200EXNPT
2.5"	250EXNPT
3"	300EXNPT
4"	400EXNPT

Crimped

## Tri-Clamp



Hose ID	Fitting Part Number
0.5"	050CRTC
0.75"	075CRTC
1"	100CRTC
1.5"	150CRTC
2"	200CRTC
2.5"	250CRTC
3"	300CRTC
4"	400CRTC

Expanded



Hose ID	Fitting Part Number	Nut Part Number
1.5"	150EXDIN	DIN40NUT
2"	200EXDIN	DIN50NUT
2.5"	250EXDIN	DIN65NUT
3"	300EXDIN	DIN80NUT
4"	400EXDIN	DIN100NUT



## Mini Tri-Clamp

Crimped



Hose ID	Fitting Part Number
0.5"	050CRMTC
0.75"	075CRMTC

## Cam & Groove

Type C



Hose ID	Fitting Part Number
1"	100CRCMLK
1.5"	150CRCMLK
2"	200CRCMLK
2.5"	250CRCMLK
3"	300CRCMLKSS
4"	400CRCMLKSS

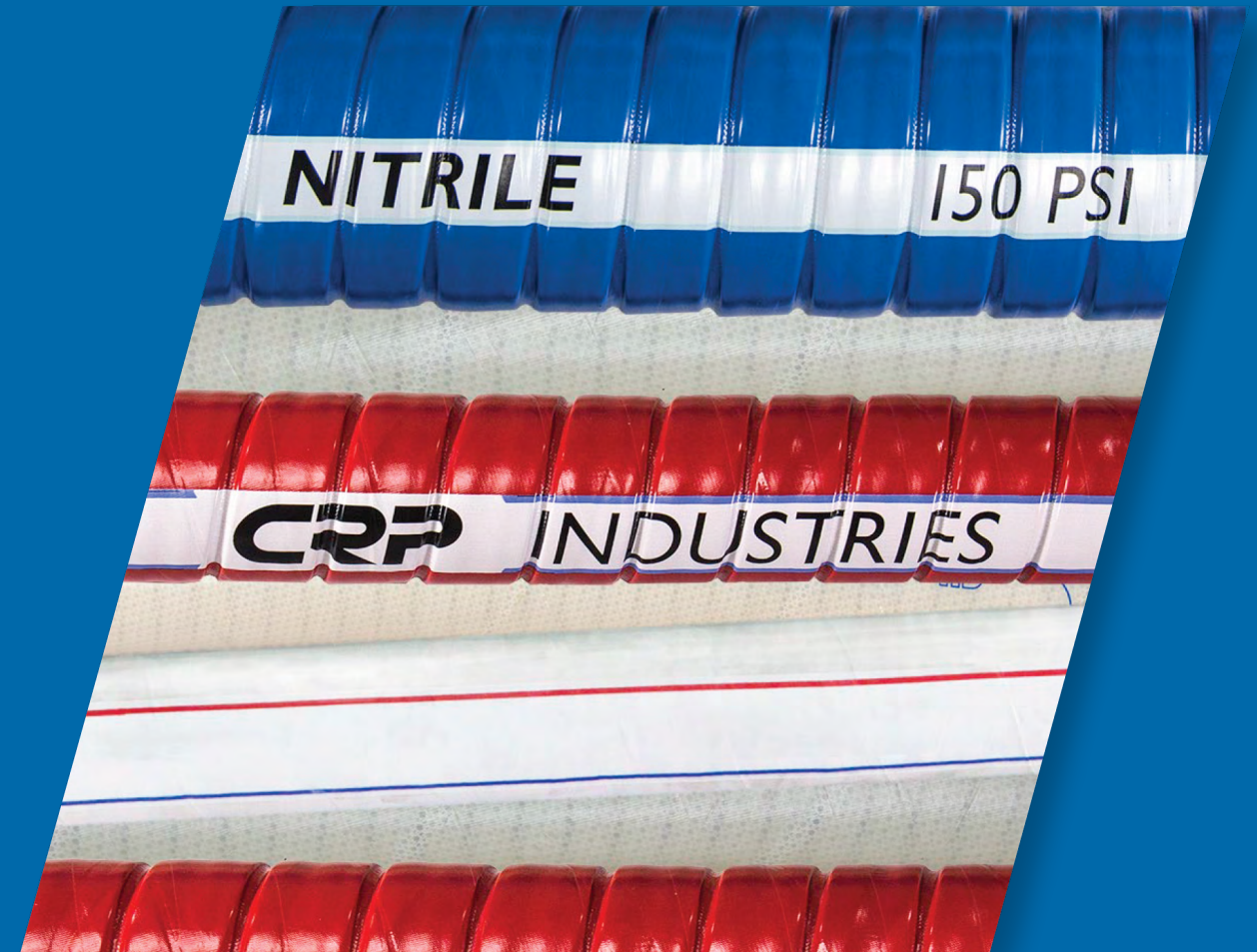
## Cam & Groove

Type E



Hose ID	Fitting Part Number
1"	100CRTYPE
1.5"	150CRTYPE
2"	200CRTYPE
2.5"	250CRTYPE
3"	300CRTYPESS
4"	400CRTYPESS

# Chemical Compatibility Chart



### CHEMICAL RESISTANCE RATING

- A** Good Resistance      This chemical has no or minimal effect on the polymer.
- B** Fair Resistance      This chemical has a small effect on the polymer. Continuous usage, increased temperatures, and high concentrations can negatively affect the polymer.
- C** Conditional Resistance      This chemical is acceptable for intermittent use or specific conditions.
- D** Minimal Resistance      This chemical has significant negative effects on the polymer.

This chemical compatibility chart is meant to be a guide only. The listed compounds are the most common tube materials used by CRP Industries Inc. This reflects the effect on the polymer only. It does not factor additional design requirements into the chemical ratings.

For further assistance in selecting the right product for your application, please contact CRP Industries Inc.

The data compiled from multiple sources is based on application temperature of 70° F (21° C) under normal service conditions.



CHEMICAL RESISTANCE RATING A = Good Resistance B = Fair Resistance C = Depends On Conditions D = Not Recommended

	Butyl	Nitrile	EPDM	FKM/Viton	Silicone	UHMW	PTFE/PFA
2,4D with 10% Fuel Oil	D	A	D	A	-	A	A
Acetal (Delrin)	B	D	B	D	-	A	A
Acetaldehyde*	A	D	A	D	B	A	A
Acetamide	A	A	A	B	B	A	A
Acetate Solvents	C	D	A	D	-	A	A
Acetic Acid, 10%	A	B	A	B	A	A	A
Acetic Acid, 30%	B	C	A	C	A	A	A
Acetic Acid, 50%	B	D	A	D	A	A	A
Acetic Acid, Glacial	B	D	B	D	B	A	A
Acetic Anhydride	B	C	B	D	D	A	A
Acetic Ether	B	D	B	D	C	B	A
Acetone	A	D	A	D	C	A	A
Acetophenone	A	D	A	D	D	D	A
Acetyl Chloride	D	D	D	B	C	C	A
Acetylacetone	A	D	A	D	-	A	A
Acetylene	A	A	A	A	B	A	A
Acrylonitrile	D	D	D	C	D	B	A
Air	A	A	A	A	A	A	A
Alcohol Aliphatic	A	B	A	C	B	A	A
Alcohol, Aromatic	D	C	D	A	-	A	A
Alk-Tri	D	C	D	A	D	B	A
Allyl Alcohol	A	B	A	B	-	A	A
Allyl Bromide	D	D	D	B	D	B	A
Allyl Chloride	D	B	D	A	D	B	A
Alum	A	A	A	A	A	A	A
Aluminum Acetate	A	B	A	C	D	A	A
Aluminum Chloride	A	A	A	A	B	A	A
Aluminum Fluoride	A	A	A	A	B	A	A
Aluminum Hydroxide	A	C	A	B	B	A	A
Aluminum Nitrate	A	A	A	A	B	A	A
Aluminum Phosphate	A	A	A	A	B	A	A
Aluminum Sulfate	A	A	A	A	B	A	A
Ammonia Water	B	C	A	D	B	A	A
Ammonia, Liquid*	A	C	A	D	B	A	A
Ammonium Carbonate	A	C	A	A	D	A	A
Ammonium Chloride	A	A	A	A	C	A	A
Ammonium Hydroxide	B	C	A	D	B	A	A
Ammonium Metaphosphate	A	B	A	C	B	A	A
Ammonium Nitrate*	A	A	A	D	B	A	A
Ammonium Persulfate	A	D	A	D	D	A	A
Ammonium Phosphate	A	A	A	A	A	A	A
Ammonium Sulfate	A	A	A	C	C	A	A
Ammonium Sulfide	A	A	A	C	D	A	A
Ammonium Sulfite	A	C	A	B	B	A	A
Ammonium Thiocyanate	A	C	A	C	B	A	A
Ammonium Thiosulfate	A	B	A	B	B	A	A
Amyl Acetate	B	C	B	C	C	A	A
Amyl Acetone	B	C	B	C	C	A	A
Amyl Alcohol	A	B	A	B	D	A	A
Amyl Borate	D	A	D	A	D	A	A
Amyl Chloride	D	B	D	A	D	A	A
Amyl Chloronaphthalene	D	C	D	B	D	B	A
Amyl Naphthalene	D	D	D	A	D	B	A
Amyl Oleate	B	D	B	C	-	A	A
Amyl Phenol	D	D	D	A	D	A	A
Anethole	D	D	D	B	-	B	A
Aniline	A	D	C	B	C	A	A
Aniline Dye	B	D	C	B	C	A	A
Aniline Hydrochloride	B	C	C	B	D	A	A
Animal Fats	B	A	C	A	B	A	A
Animal Grease	C	A	C	A	B	A	A
Animal Oils	B	A	C	A	B	A	A
Ansul Ether	C	C	D	C	D	A	A
Antifreeze	A	A	A	A	-	A	A

	Butyl	Nitrile	EPDM	FKM/Viton	Silicone	UHMW	PTFE/PFA
Antimony Chloride	B	A	C	A	C	A	A
Antimony Pentachloride	C	B	C	A	D	A	A
Aqua Regia	C	D	C	A	D	C	A
Aromatic Hydrocarbons	D	C	D	A	D	B	A
Arquad	A	A	A	A	-	A	A
Arsenic Acid	A	A	A	A	A	A	A
Arsenic Chloride	D	B	D	C	D	D	A
Asphalt*	D	B	D	A	D	B	A
ASTM #1 Oil	D	A	D	A	D	A	A
ASTM #2 Oil	D	B	D	A	D	A	A
ASTM #3 Oil	D	B	D	A	D	A	A
Aviation Gasoline	D	B	D	A	D	B	A
Barium Carbonate	A	A	A	A	B	A	A
Barium Chloride	A	A	A	A	A	A	A
Barium Hydroxide	A	A	A	A	A	A	A
Barium Sulfate	A	A	A	A	A	A	A
Barium Sulfide	A	A	A	A	B	A	A
Beer	A	A	A	A	A	A	A
Beet Sugar Liquors	A	A	A	A	A	A	A
Benzaldehyde	B	D	A	D	D	A	A
Benzene	D	D	D	A	D	B	A
Benzenesulfonic acid	D	D	D	A	D	A	A
Benzine Solvent	D	D	D	A	D	B	A
Benzoic Acid	B	D	D	A	D	A	A
Benzoic Aldehyde	B	D	A	D	D	A	A
Benzotrithloride	D	D	B	D	D	B	A
Benzoyl Chloride	D	D	D	B	D	B	A
Benzyl Acetate	B	C	A	C	B	A	A
Benzyl Alcohol	B	D	B	A	B	A	A
Benzyl Chloride	D	D	D	B	D	A	A
Bichromate of Soda	A	C	A	C	B	A	A
Black Sulfate Liquor	A	B	A	A	D	A	A
Blast Furnace Gas	B	D	D	A	A	A	A
Bleach Solutions	B	D	B	B	C	C	A
Borax	A	B	A	A	B	A	A
Bordeaux Mixture	A	B	A	A	A	A	A
Boric Acid	A	A	A	A	A	A	A
Brandy	A	B	A	B	B	A	A
Brine	A	B	A	A	A	A	A
Bromine	D	D	D	A	D	D	A
Bromine Water	D	D	B	D	D	A	A
Bromobenzene	D	D	D	B	D	B	A
Bunker Oil	D	A	D	A	B	B	A
Butane	D	A	D	A	D	A	A
Butanol	A	B	A	A	B	A	A
Butter	A	A	A	A	B	A	A
Butyl Acetate	B	D	B	D	D	A	A
Butyl Acrylate	C	D	D	D	C	B	A
Butyl Benzene	D	D	D	A	D	A	A
Butyl Bromide	D	D	D	B	D	B	A
Butyl Butyrate	B	D	B	B	D	B	A
Butyl Carbitol	A	C	B	B	D	A	A
Butyl Cellosolve	B	C	B	D	D	A	A
Butyl Chloride	C	A	D	A	B	B	A
Butyl Ether	C	C	C	D	D	A	A
Butyl Ethyl Acetaldehyde	C	D	D	D	-	A	A
Butyl Ethyl Ether	C	B	C	D	D	A	A
Butyl Oleate	B	D	B	A	D	A	A
Butyl Phthalate	B	D	B	C	B	A	A
Butyl Stearate	C	B	D	A	D	A	A
Butylamine	C	B	D	D	D	A	A
Butyraldehyde	B	D	B	D	D	A	A
Butyric Acid	B	D	B	C	D	A	A
Butyric Anhydride	A	C	A	C	B	A	A

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CHEMICAL RESISTANCE RATING A = Good Resistance B = Fair Resistance C = Depends On Conditions D = Not Recommended

	Butyl	Nitrile	EPDM	FKM/Viton	Silicone	UHMW	PTFE/PFA
Calcium Acetate	A	B	A	C	D	A	A
Calcium Bisulfate	B	A	B	A	-	A	A
Calcium Bisulfite	A	B	A	B	C	A	A
Calcium Carbonate	A	A	A	A	A	A	A
Calcium Chloride	A	A	A	A	A	A	A
Calcium Hydroxide	A	B	A	B	A	A	A
Calcium Hypochlorite	A	C	A	B	B	B	A
Calcium Nitrate	A	A	A	A	B	A	A
Calcium Oxide	A	A	A	A	A	A	A
Calcium Sulfate	A	C	A	B	B	A	A
Calcium Sulfide	A	A	A	A	B	A	A
Calcium Sulfite	A	A	A	A	A	A	A
Cane Sugar Liquors	A	B	A	A	A	A	A
Carbitol	B	B	B	B	B	A	A
Carbitol Acetate	B	D	B	D	-	A	A
Carbolic Acid	B	D	C	A	D	A	A
Carbon Dioxide	A	A	A	A	A	A	A
Carbon Disulfide*	D	D	D	C	D	C	A
Carbon Monoxide	B	A	B	A	B	A	A
Carbon Tetrachloride	D	B	D	A	D	B	A
Carbon Tetrafluoride	D	C	D	A	D	C	A
Carbonic Acid	A	B	A	A	A	A	A
Castor Oil	A	A	B	A	A	A	A
Caustic Potash	A	C	B	C	C	A	A
Caustic Soda	A	B	A	C	B	A	A
Cellosolve	A	D	A	C	D	A	A
Cellulose Acetate	A	D	B	D	D	A	A
Cellulube	B	D	B	C	B	A	A
China Wood Oil	C	A	D	B	D	A	A
Chlorinated Hydrocarbons	D	D	D	A	D	B	A
Chlorine Dioxide	C	D	C	A	C	B	A
Chlorine Gas*	D	D	D	D	D	D	B
Chlorine Water Solutions	D	D	C	C	D	B	A
Chloroacetic Acid	C	D	B	D	D	A	A
Chloroacetone	B	D	A	D	D	A	A
Chlorobenzene	D	D	D	A	D	B	A
Chlorobutadiene	D	D	D	A	D	B	A
Chlorobutane	D	B	D	A	B	B	A
Chloroethane*	C	B	C	A	C	B	A
Chloroethylene*	D	D	D	B	-	B	A
Chloroform	D	D	D	B	D	B	A
Chloropentane	D	D	D	B	D	A	A
Chlorophenol	C	D	C	A	C	B	A
Chloropropanone	B	D	A	D	D	A	A
Chlorosulfonic Acid	D	C	D	D	D	D	A
Chlorotoluene	D	D	D	A	D	C	A
Chromic Acid	D	D	C	A	D	C	A
Citric Acid	A	A	A	A	A	A	A
Coal Oil	D	A	D	A	D	A	A
Coal Tar*	D	A	D	A	D	A	A
Coal Tar Naphtha	D	B	D	A	D	A	A
Cobalt Chloride	A	A	A	A	B	A	A
Coconut Oil	B	A	C	A	A	A	A
Cod Liver Oil	A	A	A	A	B	A	A
Coke Oven Gas	D	D	D	A	C	C	A
Copper (I) Cyanide	A	A	A	A	A	A	A
Copper (I) Sulfide	A	A	A	A	-	A	A
Copper (II) Arsenate	A	A	A	A	-	A	A
Copper (II) Chloride	A	A	A	A	A	A	A
Copper (II) Nitrate	A	A	A	A	A	A	A
Copper (II) Nitrite	A	A	A	A	A	A	A
Copper (II) Sulfate	B	A	A	A	A	A	A
Corn Oil	B	A	C	A	A	A	A
Cottonseed Oil	A	A	C	A	A	A	A

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	Butyl	Nitrile	EPDM	FKM/Viton	Silicone	UHMW	PTFE/PFA
Creosol	B	C	D	A	C	A	A
Creosote (Coal Tar)	D	A	D	A	D	A	A
Creosote (Wood)	D	A	D	A	D	A	A
Cresylic Acid	D	D	D	A	D	A	A
Crude Oil	D	A	D	A	D	A	A
Cumene	D	D	D	A	D	A	A
Cupric Carbonate	A	C	A	A	B	A	A
Cyclohexane	D	B	D	A	D	A	A
Cyclohexanol	D	B	D	A	D	A	A
Cyclohexanone	D	D	C	C	D	A	A
Cyclopentane	D	B	D	A	D	A	A
DDT in Kerosene	D	B	D	A	D	A	A
Decaline	D	D	D	A	D	A	A
Decane	D	B	D	A	B	A	A
Decanoic Acid	D	A	D	A	B	A	A
Detergent Solutions	A	A	A	A	A	A	A
Diacetone Alcohol	A	D	B	D	D	A	A
Dibenzyl Ether	B	D	B	C	D	A	A
Dibenzylsebacate	B	D	B	C	B	C	A
Dibromobenzene	D	D	D	A	D	B	A
Dibutyl Ether	C	C	C	D	D	A	A
Dibutyl Phthalate	B	D	B	C	B	A	A
Dibutyl Sebacate	C	D	B	C	B	B	A
Dibutylamine	D	D	D	D	C	D	A
Dicalcium Phosphate	A	A	A	A	A	A	A
Dichloroacetic Acid	D	C	D	A	D	A	A
Dichlorobutane	D	B	D	A	D	A	A
Dichlorodifluoromethane	C	B	C	B	D	A	A
Dichloroethane	D	B	D	A	-	C	A
Dichloroethyl Ether	D	D	D	C	-	A	A
Dichloroethylene	D	C	D	B	-	C	A
Dichlorohexane	D	D	D	A	-	A	A
Dichloroisopropyl Ether	D	D	C	C	D	A	A
Dichloromethane	D	D	D	B	D	A	A
Dichloropentane	D	D	D	A	-	A	A
Dieldrin in Xylene	D	C	D	C	D	A	A
Dieldrin in Xylene & Water Spray	D	C	D	C	D	A	A
Diesel Oil	D	A	D	A	D	B	A
Diethanolamine	A	C	A	C	B	A	A
Diethyl Ether*	D	D	D	D	D	A	A
Diethyl Oxalate	B	D	A	B	D	A	A
Diethyl Phthalate	D	B	D	A	-	A	A
Diethyl Phthalate	D	B	D	A	-	A	A

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	Butyl	Nitrile	EPDM	FKM/Viton	Silicone	UHMW	PTFE/PFA
Dimethyl Phthalate	A	D	B	C	D	A	A
Dimethyl Sulfate	B	D	D	D	-	A	A
Dimethyl Sulfide*	C	D	D	C	-	B	A
Dimethylaniline	D	D	B	C	D	B	A
Dimethylformamide (DMF)	B	D	B	C	B	A	A
Dinitrobenzene	C	D	C	A	D	A	A
Dinitrotoluene	D	D	D	C	D	A	A
Diocetyl Adipate (DOA)	A	D	B	C	-	A	A
Diocetyl Phthalate (DOP)	B	D	C	A	C	A	A
Diocetyl Sebacate (DOS)	B	D	B	A	C	A	A
Dioxane	B	D	B	D	D	A	A
Dioxolane	C	D	B	C	D	A	A
Dipentene (Limonene)	D	C	D	A	D	A	A
Diphenyl (Biphenyl)	D	D	D	A	D	A	A
Diphenyl Oxide	D	D	D	A	C	A	A
Dipropyl Ketone	B	D	B	D	-	A	A
Dipropylene Glycol	A	A	A	A	A	A	A
Disodium Phosphate	A	A	A	A	-	A	A
Divinyl Benzene	D	D	D	A	-	A	A
Dodecyl Benzene	D	B	D	A	-	A	A
Dodecyl Toluene	D	D	D	A	-	A	A
Dowfume W-40, 100%	D	D	C	C	-	B	A
Dow-Per	D	D	D	A	D	A	A
Dowtherm Oil, A & E	D	D	D	A	-	A	A
Dowtherm S.R.I.	A	A	A	A	-	A	A
Dry Cleaning Fluids	D	C	D	A	D	B	A
Epichlorohydrin*	B	D	B	D	D	B	A
Ethanol	A	B	A	B	A	A	A
Ethers	D	D	D	D	D	B	A
Ethyl Acetate	B	D	B	D	C	B	A
Ethyl Acetoacetate	B	D	B	D	B	A	A
Ethyl Acrylate	B	D	B	D	B	B	A
Ethyl Benzoate	C	D	C	A	D	A	A
Ethyl Butyl Alcohol	A	A	A	B	-	A	A
Ethyl Butyl Ketone	B	D	B	D	-	A	A
Ethyl Cellulose	B	B	B	D	C	A	A
Ethyl Chloride*	C	B	C	A	C	B	A
Ethyl Ether*	D	D	D	D	D	A	A
Ethyl Formate	B	D	B	C	-	A	A
Ethyl Methyl Ketone	B	D	B	D	D	A	A
Ethyl Oxalate	B	D	A	B	D	A	A
Ethyl Propyl Ether	D	B	D	C	-	A	A
Ethyl Propyl Ketone	B	D	B	D	-	A	A
Ethyl Silicate	A	A	A	A	C	A	A
Ethyl Sulfate	B	D	B	D	-	A	A
Ethylbenzene	D	C	D	A	D	A	A
Ethylene	D	A	C	A	D	A	A
Ethylene Bromide	D	D	D	B	D	B	A
Ethylene Chloride	C	D	D	B	D	B	A
Ethylene Dibromide	D	D	C	B	D	B	A
Ethylene Dichloride	C	D	C	B	D	B	A
Ethylene Glycol	A	A	A	A	A	A	A
Ethylene Oxide	C	D	C	D	D	C	A
Ethylene Trichloride	D	C	D	A	D	B	A
Ethylhexanol	A	A	A	A	B	A	A
EX TRI (Trichlorethylene)	D	C	D	A	D	B	A
Fatty Acids	C	B	C	A	C	A	A
Ferric Bromide	A	A	A	A	B	A	A
Ferric Chloride	A	A	A	A	B	A	A
Ferric Nitrate	A	A	A	A	C	A	A
Ferric Sulfate	A	A	A	A	B	A	A
Ferrous Acetate	A	D	B	D	-	A	A
Ferrous Ammonium Sulfate	A	C	A	C	B	A	A
Ferrous Chloride	A	A	A	B	B	A	A

	Butyl	Nitrile	EPDM	FKM/Viton	Silicone	UHMW	PTFE/PFA
Ferrous Hydroxide	A	C	B	C	B	A	A
Ferrous Sulfate	A	C	A	A	B	A	A
Fish Oil	C	B	D	A	A	A	A
Fluorine	D	D	D	D	D	D	B
Fluoroboric Acid	A	A	A	B	A	B	A
Fluosilic Acid	A	A	B	A	D	B	A
Formaldehyde	A	B	B	C	B	A	A
Formamide	A	C	A	C	B	A	A
Formic Acid	A	B	A	D	B	A	A
Freon 10	D	B	D	A	D	B	A
Freon 11	D	B	D	B	D	A	A
Freon 112	D	B	D	A	C	A	A
Freon 113	C	A	D	B	D	A	A
Freon 114	A	A	B	A	C	A	A
Freon 114B2	D	B	D	B	D	A	A
Freon 115	A	A	A	B	-	A	A
Freon 12	C	B	C	B	D	A	A
Freon 13	A	B	A	A	D	A	A
Freon 13B1	A	A	A	B	D	A	A
Freon 142b	B	C	B	C	-	B	A
Freon 152a	A	A	A	A	A	A	A
Freon 21	D	D	D	D	-	A	A
Freon 218	A	A	A	B	-	A	A
Freon 22	B	D	B	D	C	A	A
Freon 32	A	A	A	C	-	A	A
Freon 502	A	B	A	B	-	A	A
Freon BF	D	B	D	A	D	A	-
Freon C316	A	A	A	A	-	A	A
Freon C318	A	A	A	B	-	A	A
Freon MF	D	B	D	B	D	A	A
Freon TA	A	A	B	C	C	A	-
Freon TC	A	A	B	C	D	A	-
Freon TF	C	A	D	B	D	A	A
Freon TMC	B	B	C	A	C	A	A
Freon T-P35	A	A	A	A	A	A	-
Freon T-WD 602	A	B	C	A	C	A	A
Freon31	A	D	A	D	-	A	A
Fuel Oil	D	A	D	A	B	B	A
Fuel, ASTM A	D	A	D	A	D	A	A
Fuel, ASTM B	D	B	D	A	D	A	A
Fuel, ASTM C	D	B	D	A	D	A	A
Fumaric Acid	D	A	C	A	B	A	A
Furan	C	D	C	D	D	A	A
Furfural	B	D	B	D	D	A	A
Furfuryl Alcohol	C	D	C	D	C	D	A
Gallic Acid	C	B	B	A	D	A	A
Gasoline, Hi-Test	D	A	D	A	D	B	A
Gasoline, Lead Free	D	A	D	A	D	B	A
Gasoline, Reg	D	A	D	A	D	A	A
Gelatin	A	A	A	A	A	A	A
Gluconic Acid	A	C	A	B	B	A	A
Glucose	A	A	A	A	A	A	A
Glue	B	A	A	C	A	A	A
Glycerine (Glycerol)	A	A	A	A	A	A	A
Glycols	A	A	A	A	A	A	A
Grease	D	A	D	A	-	A	A
Green Liquor	A	B	A	B	A	A	A
Halowax Oil	D	D	D	A	D	A	A
Heptachlor in Petroleum Solvents	D	B	D	B	D	A	A
Heptanal	D	D	C	D	-	A	A
Heptane	D	A	D	A	D	A	A
Heptane Carboxylic Acid	C	C	C	A	-	A	A
Hexaldehyde	B	C	D	B	D	C	A
Hexane	D	A	D	A	D	B	A

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	Butyl	Nitrile	EPDM	FKM/Viton	Silicone	UHMW	PTFE/PFA
Hexanol	B	A	B	A	B	A	A
Hexene	D	B	D	A	D	A	A
Hexyl Methyl Ketone	A	C	A	D	B	A	A
Hexylene	D	B	D	A	D	A	A
Hexylene Glycol	A	A	A	A	B	A	A
Hi-Tri (Trichloroethylene)	D	C	D	A	D	B	A
Hydraulic Fluid (Petroleum)	D	A	D	A	C	A	A
Hydraulic Fluid (Phosphate Ester Base)	A	D	A	B	C	A	A
Hydraulic Fluid (Poly Alkylene Glycol Base)	A	A	A	A	-	A	-
Hydrobromic Acid	A	D	A	A	D	B	A
Hydrobromic Acid, 15%	B	D	A	A	D	B	A
Hydrobromic Acid, 37%	C	D	A	A	D	B	A
Hydrobromic Acid, 5%	B	C	A	A	D	A	A
Hydrocyanic Acid	A	B	A	A	C	A	A
Hydrofluoric Acid	C	D	C	A	D	A	A
Hydrofluosilicic Acid	A	A	B	A	D	B	A
Hydrogen Gas*	A	A	A	A	C	A	A
Hydrogen Peroxide, 10%	A	C	A	A	B	A	A
Hydrogen Peroxide, 3%	A	C	A	A	B	A	A
Hydrogen Peroxide, 30%	C	D	C	B	C	A	A
Hydrogen Peroxide, 90%	D	D	C	B	C	B	A
Hydrogen Sulfide*	A	D	A	C	C	B	A
Hydroquinone	B	C	D	C	D	B	A
Hypochlorous Acid	B	D	B	C	D	A	A
Ink Oil (Linseed Oil Base)	B	A	B	A	A	A	A
Insulating Oil	D	A	D	A	B	A	A
Iodine	B	C	B	C	B	C	A
Iron (II) Acetate	A	D	B	D	-	A	A
Iron (II) Hydroxide	A	C	B	C	B	A	A
Iron (II) Sulfate	A	C	A	A	B	A	A
Iron (II) Sulfide	A	A	A	A	-	A	A
Iron Salts	A	A	A	A	B	A	A
Isoamyl Acetate	A	C	B	C	B	A	A
Isoamyl Alcohol	A	A	A	B	-	B	A
Isoamyl Bromide	D	D	D	B	-	B	A
Isoamyl Butyrate	B	D	B	D	B	B	A
Isoamyl Chloride	C	D	D	B	-	B	A
Isoamyl Ether	D	B	D	D	-	A	A
Isoamyl Phthalate	A	D	B	C	-	A	A
Isobutanol	A	B	A	B	A	A	A
Isobutyl Acetate	A	C	B	C	B	A	A
Isobutyl Aldehyde	B	D	B	D	-	A	A
Isobutyl Amine	B	D	B	D	-	A	A
Isobutyl Bromide	D	D	D	B	D	B	A
Isobutyl Chloride	D	D	D	B	D	B	A
Isobutyl Ether	D	C	D	D	-	A	A
Isobutylene	D	C	D	A	-	A	A
Isocyanates	B	D	B	C	-	B	A
Isooctane	D	A	D	A	D	A	A
Isopentane*	D	A	D	A	-	B	A
Isopropyl Acetate	A	D	B	D	D	A	A
Isopropyl Alcohol	A	B	A	A	A	A	A
Isopropyl Amine	A	C	B	D	B	A	A
Isopropyl Chloride*	D	D	D	B	D	B	A
Isopropyl Ether	D	C	D	C	D	A	A
Isopropyl Toluene	D	D	D	A	-	A	A
Isopropylamine	A	C	B	D	B	A	A
Isopropylbenzene	D	D	D	A	D	A	A
Jet Fuels*	D	B	D	A	D	B	A
Kerosene	D	A	D	A	D	B	A
Ketones	B	D	B	D	C	B	A
Lacquer Solvents	D	D	D	D	D	B	A
Lactic Acid	C	C	C	A	B	A	A
Laquers	D	D	D	D	D	B	A

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	Butyl	Nitrile	EPDM	FKM/Viton	Silicone	UHMW	PTFE/PFA
Lard	B	A	B	A	B	A	A
Lauryl Alcohol	A	A	A	B	-	A	A
Lead (II) Acetate	A	C	A	C	D	A	A
Lead (II) Nitrate	A	A	A	A	B	A	A
Lead (II) Sulfate	A	A	A	A	-	A	A
Lead Sulfamate	A	B	A	A	B	A	A
Ligroin	D	A	D	A	D	A	A
Lime Water	A	C	A	A	-	A	-
Lindol	A	D	A	B	C	A	A
Linseed Oil	B	A	C	A	C	A	A
Liquid Petroleum Gas*	D	A	D	A	C	B	A
Liquid Soap	B	A	B	A	B	A	A
Lubricating Oils	D	A	D	A	D	A	A
Lye	A	B	A	B	B	A	A
Magnesium Acetate	A	C	B	C	-	A	A
Magnesium Carbonate	A	A	A	A	-	A	A
Magnesium Chloride	A	A	A	A	A	A	A
Magnesium Hydrate	A	B	A	B	-	A	A
Magnesium Hydroxide	A	B	A	A	-	A	A
Magnesium Nitrate	A	A	A	A	-	A	A
Magnesium Sulfate	A	A	B	A	A	A	A
Malathion 50 in Aromatic Solvents	D	C	D	B	D	A	A
Maleic Acid	C	D	C	C	-	A	A
Maleic Anhydride	C	D	C	C	-	A	A
Malic Acid	D	B	D	A	B	A	A
Manganese (II) Sulfate	A	B	A	A	B	A	A
Manganese (II) Sulfide	A	A	A	A	-	A	A
Manganese (II) Sulfite	A	A	A	A	-	A	A
Mercuric Chloride	A	C	A	C	B	A	A
Mercury	A	A	A	A	-	A	A
Methacrylic Acid	B	C	B	C	D	A	-
Methane*	C	A	D	A	D	A	A
Methanol	A	B	A	C	A	A	A
Methyl Acetate	B	D	B	D	D	A	A
Methyl Acrylate	B	D	B	D	D	A	A
Methyl Bromide	C	D	C	B	B	A	A
Methyl Butyl Ketone	B	D	B	D	D	A	A
Methyl Cellosolve	B	C	B	D	D	A	A
Methyl Chloride*	D	D	C	B	D	C	A
Methyl Cyclohexane	D	D	D	B	-	A	A
Methyl Ethyl Ketone (MEK)	B	D	B	D	D		

CHEMICAL RESISTANCE RATING A = Good Resistance B = Fair Resistance C = Depends On Conditions D = Not Recommended

	Butyl	Nitrile	EPDM	FKM/Viton	Silicone	UHMW	PTFE/PFA
Napthalene	D	D	D	A	-	A	A
Neatsfoot Oil	B	A	B	A	B	A	A
Neu-Tri	D	C	D	A	D	B	A
Nickel (II) Acetate	A	C	B	D	D	A	A
Nickel (II) Chloride	A	A	A	A	A	A	A
Nickel (II) Nitrate	A	A	A	A	-	A	A
Nickel (II) Sulfate	A	A	A	A	A	A	A
Nickel Plating Solution	B	B	A	A	-	A	A
Niter Cake	A	A	A	A	A	A	A
Nitric Acid, 10%	A	C	A	B	C	A	A
Nitric Acid, 20%	B	D	C	B	D	B	A
Nitric Acid, 30%	C	D	C	C	D	C	A
Nitric Acid, 30-70%	D	D	D	D	D	C	A
Nitric Acid, Red Fuming	D	D	D	D	D	D	A
Nitrobenzene	D	D	D	B	D	B	A
Nitrogen Gas	A	A	A	A	A	A	A
Nitrogen Tetroxide	C	D	D	D	D	D	A
Nitromethane	B	D	B	D	D	A	A
Nitropropane*	A	D	B	D	D	A	A
Nitrous Oxide	A	A	A	A	A	A	A
Octadecanoic Acid	B	B	B	A	B	A	A
Octane	D	B	D	A	-	A	A
Octanol	A	B	B	A	B	A	A
Octyl Acetate	A	C	A	D	B	A	A
Octylene Glycol	A	A	A	A	-	A	A
Oil, ASTM #1	D	A	D	A	B	B	A
Oil, ASTM #2	D	A	D	A	C	B	A
Oil, ASTM #3	D	A	D	A	C	B	A
Oil, Petroleum	D	A	D	A	D	A	A
Oleic Acid	C	B	C	B	D	A	A
Oleum (Fuming Sulfuric Acid)	C	D	D	D	D	C	A
Olive Oil	B	A	B	A	C	A	A
Orthodichlorobenzene	D	D	D	A	D	B	A
Oxalic Acid (Cold)	A	C	A	A	B	A	A
Oxygen, Cold*	A	C	A	A	A	A	A
Oxygen, Hot*	C	D	C	B	B	A	A
Ozone	A	C	A	A	A	A	A
Paint Thinner (Duco)	D	D	D	C	D	A	A
Palm Oil	A	A	B	A	B	A	A
Palmitic Acid	B	A	B	A	D	A	A
Papermaker's Alum	A	A	A	A	A	A	A
Paradichlorobenzene	D	D	D	A	D	B	A
Paraffin	C	A	C	A	B	A	A
Paraformaldehyde	A	C	A	C	B	A	A
P-Cymene	D	D	D	A	-	A	A
P-Dichlorobenzene	D	D	D	A	D	B	A
Peanut Oil	C	A	C	A	A	A	A
Pentane	D	A	D	A	D	B	A
Perchloric Acid	A	D	B	A	D	A	A
Perchloroethylene	D	C	D	A	D	B	A
Petrolatum	D	A	D	A	D	A	A
Petroleum Ether (Naphtha)	D	B	D	A	B	A	A
Petroleum Oils	D	A	D	A	C	A	A
Petroleum, Crude	D	A	D	A	D	B	A
Phenol 10%	B	D	C	A	D	A	A
Phenolsulfonic Acid	B	C	B	A	B	B	A
Phenyl Chloride	D	D	D	A	D	B	A
Phenylhydrazine	C	D	C	B	D	A	A
Phorone	C	D	B	C	D	A	A
Phosphate Esters	A	D	A	B	C	A	A
Phosphoric Acid, 10%	A	B	A	B	B	A	A
Phosphoric Acid, 10-85%	A	C	A	B	B	A	A
Phosphorous Trichloride	A	D	A	A	-	A	A
Pickling Solution	B	D	C	A	D	A	A

	Butyl	Nitrile	EPDM	FKM/Viton	Silicone	UHMW	PTFE/PFA
Picric Acid, Molten	A	C	A	B	D	B	A
Picric Acid, Water Soln.	A	B	A	A	C	A	A
Pine Oil	D	B	D	A	D	A	A
Pinene	D	B	D	A	D	A	A
Piperidine	D	D	D	B	D	B	A
Pitch	D	B	D	C	-	A	A
Plating Solution, Chrome	B	D	B	A	D	A	A
Plating Solution, Others	A	B	A	B	D	A	-
Polyethylene Glycol	A	B	A	A	-	A	A
Polypropylene Glycol	A	A	A	A	-	A	A
Polyvinyl Acetate Emulsion (PVA)	A	C	A	C	D	A	A
Potassium Bicarbonate	A	B	A	A	B	A	A
Potassium Bisulfate	A	A	A	A	A	A	A
Potassium Bisulfite	A	B	A	A	B	A	A
Potassium Carbonate	A	A	A	B	A	A	A
Potassium Chloride	A	A	A	A	A	A	A
Potassium Chromate	A	D	B	B	C	A	A
Potassium Cyanide	A	A	A	A	A	A	A
Potassium Dichromate	A	B	A	B	A	A	A
Potassium Hydrate	A	B	B	C	-	A	A
Potassium Hydroxide	A	C	B	C	C	A	A
Potassium Nitrate	A	A	A	A	A	A	A
Potassium Permanganate	A	C	A	B	B	A	A
Potassium Silicate	A	A	A	A	A	A	A
Potassium Sulfate	A	A	A	A	A	A	A
Potassium Sulfide	A	C	A	A	B	A	A
Potassium Sulfite	A	A	A	A	A	A	A
Producer Gas	D	A	D	A	B	A	B
Propanediol	A	A	A	A	B	A	A
Propanol	A	A	A	A	A	A	A
Propyl Acetate	B	D	B	D	D	A	A
Propyl Chloride*	C	D	C	B	-	B	A
Propylaldehyde	B	C	B	D	C	A	A
Propylene Dichloride	D	C	D	A	D	B	A
Propylene Glycol	A	A	A	A	B	A	A
Pydraul Hydraulic Fluids	B	D	B	C	D	B	A
Pyranol	D	C	D	A	D	-	A
Pyridine	B	D	B	D	D	A	A
Pyroligneous Acid	B	C	B	C	-	A	A
Pyrrrole	C	D	C	C	C	A	A
Rapeseed Oil	A	B	A	A	D	B	A
Red Oil	C	A	C	A	D	A	A
Rosin Oil	D	B	D	A	-	A	A
Rotenone and Water	A	A	A	A	-	A	A
Rum	A	B	A	B	A	A	A
Sal Ammoniac	A	A	A	A	B	A	-
Salicylic Acid	A	B	A	A	-	A	A
Sea Water	A	A	A	A	A	A	A
Sewage	C	A	C	A	-	A	A
Silicate Esters	D	B	D	A	D	A	-
Silicate of Soda	A	A	A	A	A	A	A
Silicone Greases	A	A	A	A	B	A	A
Silicone Oils	A	A	A	A	D	A	A
Silver Nitrate	A	B	A	A	A	A	A
Skelly Solvent	D	A	D	A	D	A	A
Skydrol Hydraulic Fluids	C	D	A	D	C	A	A
Soap Solutions	B	A	B	A	B	A	A
Soda Ash	A	A	A	A	A	A	A
Soda Lime	A	B	A	C	-	A	A
Soda, Caustic (Sodium Hydroxide)	A	B	A	C	B	A	A
Sodium Acetate	A	C	B	D	D	A	A
Sodium Aluminate	A	B	A	A	B	A	A
Sodium Bicarbonate	A	A	A	A	A	A	A
Sodium Bisulfate	A	A	A	A	A	A	A

\*This chemical has special transportation requirements. Contact CRP Industries Inc. for further assistance.

CHEMICAL RESISTANCE RATING A = Good Resistance B = Fair Resistance C = Depends On Conditions D = Not Recommended

	Butyl	Nitrile	EPDM	FKM/Viton	Silicone	UHMW	PTFE/PFA
Sodium Bisulfite	A	A	A	A	A	A	A
Sodium Borate	A	B	A	A	B	A	A
Sodium Carbonate	A	A	A	A	A	A	A
Sodium Chloride	A	A	A	A	A	A	A
Sodium Chromate	A	D	A	C	B	B	A
Sodium Cyanide	A	A	A	A	A	A	A
Sodium Dichromate	A	C	A	C	B	A	A
Sodium Fluoride	A	B	A	A	B	A	A
Sodium Hydroxide	A	B	A	C	B	A	A
Sodium Hypochlorite	B	C	B	B	B	B	A
Sodium Metaphosphate	A	A	A	A	C	A	A
Sodium Nitrate	A	B	A	A	D	A	A
Sodium Nitrite	A	B	A	A	-	A	A
Sodium Perborate	A	B	A	A	B	B	A
Sodium Peroxide	A	C	A	B	D	B	A
Sodium Phosphate	A	B	A	A	C	A	A
Sodium Silicate	A	A	A	A	A	A	A
Sodium Sulfate	A	A	A	A	A	A	A
Sodium Sulfide	B	B	A	A	A	A	A
Sodium Sulfite	A	A	A	A	A	A	A
Sodium Thiosulfate	A	B	A	A	A	A	A
Soybean Oil	B	A	C	A	B	A	A
Stannic Chloride	B	A	B	A	B	A	A
Stannic Sulfide	A	A	A	A	-	A	A
Stannous Chloride	A	A	A	A	B	A	A
Stannous Sulfide	A	A	A	A	B	A	A
Stearic Acid	B	B	B	A	B	A	A
Stoddards Solvent	D	A	D	A	D	A	A
Styrene	D	D	D	B	C	B	A
Sugar Sols. (Sucrose) Non F.D.A.	A	A	A	A	A	A	A
Sulfamic Acid	A	C	A	B	D	A	A
Sulfite Liquors	A	C	B	B	D	A	A
Sulfonic Acid	B	C	B	C	B	B	A
Sulfur (II) Chloride	D	C	D	A	C	B	A
Sulfur (Molten)	C	D	C	A	C	A	A
Sulfur Dioxide	B	C	A	A	B	A	A
Sulfur Hexafluoride	A	B	A	B	B	A	A
Sulfur Trioxide	B	D	B	A	B	D	A
Sulfuric Acid, 25%	A	B	A	A	B	A	A
Sulfuric Acid, 25-50%	B	D	C	B	D	B	A
Sulfuric Acid, Fuming	C	D	D	D	D	C	A
Sulfurous Acid	B	B	B	C	D	A	A
Tall Oil	D	A	D	A	-	A	A
Tallow	D	A	D	A	B	A	A
Tannic Acid	A	B	A	A	B	A	A
Tar*	D	B	D	B	C	D	A
Tartaric Acid	B	A	B	B	A	A	A
Terpineol	C	B	C	A	-	B	A
Tertiary Butyl Alcohol	B	B	B	A	B	A	A
Tetrachlorobenzene	D	D	D	B	D	B	A
Tetrachloroethane	D	D	D	A	D	B	A
Tetrachloroethylene	D	D	D	A	D	A	A
Tetrachloromethane	D	B	D	A	D	B	A
Tetrachloronaphthalene	D	D	D	B	-	B	A
Tetraethyl Lead	D	B	D	A	-	A	A
Tetraethylene Glycol	A	A	A	A	-	A	A
Tetrahydrofuran	D	D	D	D	D	B	A
Thionyl Chloride	C	D	C	B	-	B	A
Tin Chloride	A	A	A	A	B	A	A
Tin Tetrachloride	B	A	B	A	B	A	A
Titanium Tetrachloride	C	B	C	A	D	A	A
Toluene	D	D	D	B	D	B	A
Toluene (Toluol)	D	D	D	B	D	B	A
Toluene Diisocyanate (TDI)	A	C	A	B	D	A	A

\*This chemical has special transportation requirements. Contact CRP Industries Inc. for further assistance.

	Butyl	Nitrile	EPDM	FKM/Viton	Silicone	UHMW	PTFE/PFA
Transformer Oils (Chlorinated Phenyl Base Askerels)	D	B	D	A	B	B	A
Transformer Oils (Petroleum Base)	D	A	D	A	B	A	A
Transmission Fluids - A	D	B	D	A	D	B	A
Transmission Fluids - B	D	B	D	A	D	B	A
Tributyl Phosphate	B	D	B	D	D	A	A
Tricetin	A	B	A	D	D	A	-
Trichlorobenzene	D	C	D	B	-	B	A
Trichloroethane	D	D	D	A	D	B	A
Trichloroethylene	D	C	D	A	D	B	A
Trichloropropane	D	D	D	A	D	A	A
Tricresyl Phosphate (TCP)	A	D	A	A	C	A	A
Triethylene Glycol	A	B	A	B	B	A	A
Trinitrotoluene (TNT)	D	D	D	B	-	D	-
Triphenyl Phosphate	A	D	B	C	C	A	A
Trisodium Phosphate	A	A	A	A	A	A	A
Tung Oil	C	A	D	B	D	A	A
Turbine Oil	D	B	D	A	D	A	A
Turpentine	D	B	D	A	D	A	A
Ucon Hydrolube Oils	A	A	A	A	A	A	A
Undecanol	A	A	A	B	-	B	A
Unsymmetrical Dimethyl-Hydrazine (UDMH)	A	B	A	D	D	C	-
Varnish	D	B	D	A	D	A	A
Vegetable oils	B	A	C	A	A	A	A
Versilube	A	A	A	A	C	A	A
Vinegar	A	B	A	A	-	A	A
Vinyl Acetate	B	D	B	C	-	A	A
Vinyl Benzene	D	D	D	B	C	B	A
Vinyl Chloride (Monomer)*	D	D	D	B	-	B	A
Vinyl Ether*	D	D	C	D	-	A	-
Vinyl Toluene	D	D	D	A	-	A	A
Vinyl Trichloride	D	D	D	A	D	A	A
VM&P Naphtha	D	B	D	A	D	A	A
Water, Fresh	A	A	A	A	A	A	A
Water, Salt	A	A	A	A	A	A	A
Whiskey, Wines	A	B	A	B	A	A	A
White Liquor	B	B	B	A	C	A	A
White Oil	D	A	D	A	A	A	A
Wood Alcohol	A	B	A	C	A	A	A
Xylene	D	C	D	A	D	C	A
Xylidine	D	C	C	D	D	B	A
Zeolites	A	A	A	A	A	A	A
Zinc (II) Chloride	A	B	A	A	A	A	A
Zinc Acetate	A	C					



# Guidelines for Cleaning and Sanitizing Food and Beverage Hose

THE FOLLOWING SUGGESTIONS ARE GUIDELINES ONLY. THESE GUIDELINES DO NOT SUPERSEDE EXISTING GOVERNMENT OR INDUSTRY REGULATIONS.

Cleaning and sanitizing is a critical part of every food and beverage process. Chemical and physical cleaners are selected for their ability to remove residue and eliminate biological contamination. In addition, users are required select temperature, concentration, duration and frequency of cleaning. This can be a complicated task.

All of these factors affect the hose life. The cleaning procedure is often the key factor in determining how long an assembly will last. This guide will help end users achieve proper sanitation while maximizing hose life. Several industries have required cleaning and sanitation procedures. CRP Industrial can assist users in selecting a product to best match their unique requirements.

	Medium	Hose Tube	Concentration	Temperature
<b>Rinsing</b>	Hot Water	NBR/Silicone EPDM/BIIR/UHMW PTFE/PFA	-	Max 90°C
<b>Physical Cleaner</b>	Steam	NBR	-	Max 110°C Max 10 min
		EPDM/BIIR/UHMW PTFE/PFA	-	Max 130°C Max 30 min
		Silicone	-	Max 135°C Max 18 min
<b>Chemical Cleaner</b>	Acid (i.e. Nitric acid)	NBR/Silicone	0.1%	Max 65°C
			2%	Max 25°C
		EPDM/BIIR/UHMW PTFE/PFA	0.1%	Max 85°C
			3%	Max 25°C
	Alkaline solution (i.e. Caustic soda)	NBR/Silicone	2%	Max 65°C
			4%	Max 25°C
		EPDM/BIIR/UHMW PTFE/PFA	2%	Max 85°C
			5%	Max 25°C
Disinfectant (i.e. Peracetic acid)	NBR/Silicone	1%	Max 25°C	
	EPDM/BIIR/UHMW PTFE/PFA		Max 40°C	

## CLEANING AND SANITIZING STEPS

### 1. WASHING

The first step in the process is thoroughly washing the hose. Rinsing with hot potable water does not eliminate the need to clean the hose with the appropriate detergent followed by the disinfection of the hose. The initial rinse with hot potable water should be completed as soon as possible after the transfer is completed.

### 2. CLEANING

The cleaning and disinfecting media depend upon the material/products being conveyed. The recommendation of the manufacturer of the detergent and disinfectant should be strictly followed especially regarding concentration levels.

The attached chart can offer some guidance based on the hose product being used. Cleaning and sanitation is always the top priority. Increasing the temperature, concentration, and duration of cleaning, does not always provide a better result.

### 3. DISINFECTING

The cleaning process may kill off many harmful bacteria and contaminants. A round of disinfecting is sometimes needed to eliminate the rest. Cleaners like steam double as good physical disinfectants. Peracetic acid (PAA) is a common chemical disinfectant in breweries. It typically follows an acid and alkaline wash.

Temperature, concentration and duration are important factors to consider in the disinfecting step. As soon as the disinfecting is complete, the hose should be carefully and sufficiently rinsed with potable water to eliminate any chemical residue.

### 4. INSPECTION

The hose assembly should be completely inspected before returning it to service. The outside of the hose should be checked for signs of tearing and over-flexing. The inside of the hose should be inspected as well. The cleaning procedure, can over-time wear down the interior of the hose leaving cracks and grooves that bacteria can reside in. It is critical to check both the interior and exterior. This will help the user refine their process and establish a suitable replacement schedule.

CRP Industrial hoses are suitable for steam sterilization temperatures up to 266°F (130°C) for 30 minutes. The silicone hoses can be sterilized with steam up to 275°F (135°C) for 18 minutes.

# STAMPED:

## The Key to Hose Selection

To identify the correct hose for use in a particular application, it is recommended to use the industry-wide standard **STAMPED**. This acronym stands for **S**ize, **T**emperature, **A**pplication, **M**aterial, **P**ressure, **E**nds, and **D**elivery.

### **S**ize

- Hose inner diameter and Hose length are required
- Is the hose outer diameter critical?
- Does the hose need to be an exact length (OAL)?

### **T**emperature

- What temperature is the material being transferred?
- What is the temperature and duration of cleaning?
- What temperature is the environment the hose is in?

### **A**pplication

- How is this hose going to be used?
- Is the hose exposed to direct sunlight, chemicals, or abrasion?
- How much is the hose going to be bent?
- Is the hose at risk of being crushed?
- Is this being used in a flammable or explosive environment?
- Is the hose being used for a food grade product? Does it need to meet pharmaceutical standards?

### **M**aterial

- What material is being conveyed?
- What concentration is being used?
- What phase is the product in?
- Is the material sharp and abrasive?

### **P**ressure

- What is the maximum pressure required?
- Is the hose used for suction and delivery?

### **E**nds

- What style of hose ends are needed?
- What material do you need the ends to be made from?

### **D**elivery

- When is the hose needed?
- Are there any specific delivery or packaging requirements?

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To view the CRP Industrial Hose Safety Guide, visit [http://www.crpindustrial.com/pdf/CRPIndustrial\\_HoseSafetyGuide.pdf](http://www.crpindustrial.com/pdf/CRPIndustrial_HoseSafetyGuide.pdf).

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CRP Industries Inc.  
35 Commerce Drive  
Cranbury, NJ 08512 USA

**Toll Free** 800.526.4066  
**Phone** 609.578.4100  
**Fax** 609.578.4112

[industrialcs@crpindustries.com](mailto:industrialcs@crpindustries.com)

[www.crpindustrial.com](http://www.crpindustrial.com)

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