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INDUSTRIAL HOSE CATALOG
Titan Industries continually strives to make design and material improvements and reserves the right to alter specifications without prior notice.
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**COUPLING CAPABILITIES**

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- Externally Swaged ............................................... 70
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- Split-Lok Flange ................................................ 70
This year marks Titan’s 30th anniversary. While we are proud of what we have accomplished, we are dedicated to building a better future for our customers and employees. We are truly honored that distributors and end-users have relied on us for the last three decades and we will continue to go to great lengths to earn their confidence and business. Each and every Titan associate is focused on providing the highest level of quality and customer service in the industry. It is our objective not only to meet our customer’s needs, but also to exceed their expectations.

Titan’s manufacturing and distribution facilities are strategically located throughout the United States in order to optimally serve our customers. Our California and Texas hose manufacturing facilities produce millions of feet of industrial hose every year in hose constructions up to 8-5/8” ID. We are also proud to be the largest full-service Custom Made Hose manufacturer in the United States. Our Custom Made Hose operations in California and North Carolina specialize in designing and fabricating hand-built application-engineered hoses and assemblies in sizes up to 60” ID. Finally, our stocking warehouses enable us to provide next day delivery to the vast majority of our customers throughout the United States.

As one of NAHAD’s founding members, Titan is committed to producing high quality products and to using state-of-the-art manufacturing techniques. To that end, Titan proudly adheres to the NAHAD Industrial Hose Assembly Specification Guidelines. Established by NAHAD member volunteers, the guidelines provide performance recommendations for the specification, design and fabrication of hose assemblies and set a benchmark in our industry for safety, quality, and reliability.

You have our commitment that we will continue to dedicate our resources and efforts to the expansion of our line of exceptional industrial hose products and we are honored to have your support and trust.

Thank you,

Buddy Pepp
President

Todd Mackey
Chief Operating Officer
Mission Statement

We are an entrepreneurial organization passionate about our people and our products. We provide the highest level of quality and customer service in our industry.

Quality

Quality is an ongoing commitment at Titan and we continually test and refine our products to improve their performance in the field. Our excellence in manufacturing is complimented by our in-house fully equipped test laboratory. Titan’s lab performs numerous tests to ensure quality including tensile, elongation, hardness, gravity, volume swell, oven aging, ozone, cold flex, burst, proof pressure, and impulse cycle testing.

Production

All Titan elastomers are formulated in-house and have been perfected through years of research and development. We do all of our own extruding and calendering and utilize several extrusion machines to produce one-piece seamless tubes that eliminate the possibility of delamination. Our South Gate, CA and Spring, TX facilities operate several Titan-designed arana spiral machines that manufacture hoses ranging from 1/2” to 8-5/8” I.D. Our Custom Made Hose Division is capable of producing custom hoses in sizes up to 60” I.D. with special custom manufactured ends (see page 8).

Brands

Titan labels all hose products for easy identification. Both Mylar and impression branding are available in a variety of colors and styles to meet your hose identification needs. Customized logos, colors and styles are also available upon special request.

Couplings

Titan’s coupling capabilities include internally expanded, externally swaged, crimped, built-in, re-attachable, beaded ends, and rota-lok fittings. Hose assemblies can be made and tested at all of our manufacturing and warehouse facilities.

Military Specifications

With the support of our in-house laboratory, Titan has the ability to perform first article testing as required by certain government contracts. Titan is an established supplier to the U.S. government and we have a wide range of military hoses available to fulfill your needs (see page 50).

Product Warranty

All Titan parts and products are thoroughly inspected and tested from the time raw material is received at our factory until the product is complete. We guarantee that all products are free from defects in materials and workmanship. Any product that may prove defective in regards to material or workmanship within one year of purchase from Titan, will, at Titan’s option, be promptly repaired, replaced, or credited for future orders. This warranty shall not apply to products that have been altered in any way, which have been repaired by any party other than an authorized Titan representative, or when such a failure is due to misuse, misapplication, or conditions of use. Titan shall have no liability for special or consequential damage to any party, and shall have no liability for labor costs or any other costs or charges in excess of the amount of the invoice for the products. This warranty is in lieu of all other warranties, expressed or implied and specifically the warranties of merchantability and fitness for a particular purpose.

Freight

See current price schedule for freight terms.

Terms and Conditions

See current price schedule for terms and conditions.
Most hoses are made up of three components: (1) Tube, (2) Reinforcement, (3) Cover. Each of these components is usually adhered to the adjacent components by bonding agents or thin layers of specially compounded rubber.

**HOSE**
- A flexible conduit consisting of a tube, reinforcement, and an outer cover.

**TUBE**
- The innermost element made of rubber or plastic, or a combination of both.
- The tube must be resistant to the material it is intended to convey.

**REINFORCEMENT**
- Textile, plastic or metal reinforcement, alone or combined, built into the body of the hose.
- The primary function is to withstand internal pressures and external forces.

**COVER**
- The outer element made of rubber, plastic, metal or textile materials.
- The primary function of the cover is to protect the reinforcement from damage and the environment.

**BASIC HOSE CONSTRUCTION**


---

**HOSE FLEXIBILITY**

Flexibility is determined by the minimum bend radius and the amount of force required to bend the hose. The minimum bend radius is defined as the radius to which the hose can be bent in service without damaging or appreciably shortening the life of the product. Perhaps more important in determining flexibility, the force-to-bend is defined as the amount of stress required to induce bending around a specified radius. The less force that is required, the easier the product is to maneuver in the field.

Different hose constructions may require significantly different forces to attain the same minimum bend radius. Generally, the preferred hose is the more flexible hose, provided all other properties are essentially equivalent.
INDUSTRY LEADER
Titan Industries is proud to be the largest full-service Custom Made Hose manufacturer in the United States. Titan specializes in designing and fabricating hand-built application-engineered hoses and assemblies. We have extensive experience in the art and science of hose design, engineering, and production, and take pride in our ability to manufacture specialized products that meet the demanding requirements of the industrial marketplace.

STATE-OF-THE-ART DESIGN AND MANUFACTURING
Our experienced hose designers begin the manufacturing process by surveying your unique requirements and designing a material transfer solution ideally suited for your specific application. Utilizing computer controlled lathes that ensure consistent wrap pressure and material overlap, Titan’s master hose builders bring the project to fruition by marrying traditional hand-built hose craftsmanship with state-of-the-art technology to fabricate a completed assembly capable of performing in even the most demanding application.

CUSTOMER SUPPORT
We are here to make your next project a success by filling your specialized orders quickly and affordably. We are confident that we can meet your needs by utilizing our manufacturing facilities in California and North Carolina, bi-coastal design centers, and our experienced sales and customer service teams. Call us today so that we can earn the right to be your preferred custom made hose supplier.

CUSTOM MADE HOSE DESIGN CENTERS
Salisbury, North Carolina
Arvada, Colorado

CUSTOM MADE HOSE MANUFACTURING FACILITIES
South Gate, California
Salisbury, North Carolina
DESIGN CAPABILITIES
Virtually any feature of a custom made hose can be modified to meet your specific requirements.

- Inside Diameter
- Outside Diameter
- Length
- Weight
- Color
- Tube Thickness
- Working Pressure
- Bend Radius
- End Fittings

INDUSTRIES
Applications requiring custom made hose can be found in nearly every industry.

- Bulk Hauling
- Chemical Plants
- Concrete Plants
- Construction
- Dock Facilities
- Dredge Operations
- Manufacturing Plants
- Mining and Mineral Processing
- Paper Mills
- Power Plants
- Refineries
- Sand and Gravel Plants
- Sewage Treatment Plants
- Steel Mills

APPLICATIONS
Titan’s custom made hose products are ideally suited for applications that require special tube and cover compounds, large diameters, and built-in end fittings.

- Acid Discharge
- Chemical Processing
- Concrete Transfer
- Hot Tar and Asphalt
- Material Handling
- Molten Sulphur Transfer
- Oil Suction & Discharge
- Sand Suction
- Slurry Pumping
- Tanker and Barge Transfer
- Vapor Recovery
- Water Suction and Discharge

www.titanindustries.com
800-242-HOSE (4673) • Fax 562.869.05.92
SIZE CAPABILITIES

Our ability to manufacture large diameter hoses up to 60” I.D. opens endless possibilities - No job is too big!

<table>
<thead>
<tr>
<th>Hose I.D.</th>
<th>Manufactured Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>2” to 16”</td>
<td>Any length up to 100 ft. maximum.</td>
</tr>
<tr>
<td>17” to 48”</td>
<td>Any length up to 60 ft. maximum.</td>
</tr>
<tr>
<td>49” to 60”</td>
<td>Any length up to 50 ft. maximum.</td>
</tr>
</tbody>
</table>

MANUFACTURING MATERIALS

Titan’s highly trained chemists work with a wide variety of materials to meet the unique requirements of the industrial marketplace.

<table>
<thead>
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<th>ASTM Designation</th>
<th>Common Name</th>
<th>Composition</th>
<th>General Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>BR</td>
<td>Polybutadiene</td>
<td>Butadiene</td>
<td>Excellent abrasion and low temperature resistance. High resilience.</td>
</tr>
<tr>
<td>CR</td>
<td>Neoprene®</td>
<td>Polychloroprene</td>
<td>Good weathering resistance &amp; flame retarding. Moderate resistance to petroleum based fluids. Good physical properties.</td>
</tr>
<tr>
<td>CSM</td>
<td>Hypalon®</td>
<td>Chlorosulfonyl-polyethylene</td>
<td>Excellent ozone, weathering, and acid resistance. Good resistance to heat, abrasion, and petroleum based fluids.</td>
</tr>
<tr>
<td>EA</td>
<td>Vamac®</td>
<td>Ethylene-acrylic elastomer</td>
<td>Outstanding heat, ozone, and oil resistance.</td>
</tr>
<tr>
<td>EPDM</td>
<td>Ethylene Propylene Rubber</td>
<td>Ethylene-propylene diene-terpolymer</td>
<td>Excellent ozone, chemical, and aging characteristics. Poor resistance to petroleum based fluids.</td>
</tr>
<tr>
<td>FKM</td>
<td>Fluoroelastomer</td>
<td>Fluorocarbon Rubber</td>
<td>Excellent high temperature resistance, particularly in air or oil. Very good chemical resistance.</td>
</tr>
<tr>
<td>IIR</td>
<td>Butyl</td>
<td>Isobutylene-isoprene</td>
<td>Very good weathering resistance. Low permeability to air. Good physical properties. Poor resistance to petroleum based fluids.</td>
</tr>
<tr>
<td>kevlar®</td>
<td>Kevlar®</td>
<td></td>
<td>Unique combination of toughness, extra-high tenacity, and exceptional thermal stability.</td>
</tr>
<tr>
<td>NBR</td>
<td>Nitrile</td>
<td>Acrylonitrile-butadiene</td>
<td>Excellent resistance to petroleum based fluids. Moderate resistance to aromatics. Good physical properties.</td>
</tr>
<tr>
<td>Nomex®</td>
<td>Nomex®</td>
<td></td>
<td>High temperature, exceptional thermal stability, good resistance to degradation by a wide range of chemicals, and industrial solvents.</td>
</tr>
<tr>
<td>NR</td>
<td>Natural Rubber</td>
<td>Polysisoprene, natural</td>
<td>Excellent physical properties including abrasion and low temperature resistance. Poor resistance to petroleum products.</td>
</tr>
<tr>
<td>SBR</td>
<td>SBR</td>
<td>Styrene-butadiene</td>
<td>Good physical properties, including abrasion resistance. Poor resistance to petroleum based fluids.</td>
</tr>
</tbody>
</table>
## END FITTING STYLES
Choose from a wide variety of built-in, internally expanded, and swaged fittings to make the perfect connection.

<table>
<thead>
<tr>
<th>End Fitting Style</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Built-In Nipple</td>
<td>Steel nipple is built into the hose during fabrication providing maximum holding power and a full flow unrestricted transition area. Available in threaded, flanged, or grooved end styles. Recommended for heavy duty, high pressure applications.</td>
</tr>
<tr>
<td>Built-In Rubber Flange (B.I.R.F.) or Duck &amp; Rubber Flange</td>
<td>Fabric plies and hose tube turn up the face of the flange. Steel back-up flange and rubber flange are molded together. Recommended for light to medium duty, low pressure, abrasive applications.</td>
</tr>
<tr>
<td>Modified Built-In Rubber Flange (Mod B.I.R.F.)</td>
<td>Hose tube extends through the steel nipple and up the face of the flange providing a full flow unrestricted transition area. Extends service life by protecting the steel nipple from contact with conveyed material. Recommended for heavy duty, high pressure, abrasive applications.</td>
</tr>
<tr>
<td>Enlarged</td>
<td>Hose end is enlarged to accommodate the outside diameter of pipe.</td>
</tr>
<tr>
<td>Fixed or Floating Flanges</td>
<td>Built-in, internally expanded, or externally swaged 150# and 300# drilling ANSI forged steel flanges.</td>
</tr>
<tr>
<td>Rota-Lok</td>
<td>Hose tube extends through the steel nipple and up the face of the stub end providing a full flow unrestricted transition area. Either full floating or split ring flanges are used to ensure proper bolt hole alignment. Recommended for heavy duty, abrasive applications.</td>
</tr>
<tr>
<td>Rubber Lined</td>
<td>Provides added abrasion resistance and extended service life. Recommended for highly abrasive or corrosive applications.</td>
</tr>
<tr>
<td>Soft Cuff</td>
<td>Internal wire reinforcement is eliminated from the end of the hose providing a soft and flexible section that creates a leakproof seal when clamped.</td>
</tr>
<tr>
<td>Straight or Plain Ends</td>
<td>End of hose is cut straight with no end connections.</td>
</tr>
<tr>
<td>Custom Ends</td>
<td>Hose couplings designed specifically to your engineered specifications.</td>
</tr>
</tbody>
</table>

---

**TITAN CUSTOM MADE HOSE... MANUFACTURED TO YOUR SPECIFICATIONS**

**TITAN CUSTOM MADE HOSE CAPABILITIES**

---

www.titanindustries.com  
800-242-HOSE (4673)  
Fax 562.869.05.92
DESIGN OPTIONS
We have the capabilities to design and fabricate a hose to meet your exact requirements.

<table>
<thead>
<tr>
<th>Design Options</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cover Styles</td>
<td>Smooth or corrugated designs for enhanced flexibility.</td>
</tr>
<tr>
<td>Gimbel Construction</td>
<td>Internally smooth, externally corrugated construction. Imbedded individual steel rings provide added strength and flexibility. Recommended for short lengths and large I.D. hoses requiring a tight bend radius.</td>
</tr>
<tr>
<td>Kevlar® Reinforcement</td>
<td>Provides high working pressures for heavy duty applications.</td>
</tr>
<tr>
<td>Electrical Conductivity</td>
<td>Various compound materials and design methods are available to meet your conductivity requirements.</td>
</tr>
<tr>
<td>Heat Resistance</td>
<td>Compounds and internal and external reinforcement materials offer exceptional thermal stability.</td>
</tr>
<tr>
<td>Oil Resistance</td>
<td>RMA classified type A, B, and C tube compounds.</td>
</tr>
<tr>
<td>Custom Fabrications</td>
<td>Preformed 30°, 45°, and 90° elbows, “Y’s”, and “T’s”.</td>
</tr>
</tbody>
</table>

PACKAGING SERVICES
Titan offers value added shipping services to protect your hose and assemblies while in transit.

<table>
<thead>
<tr>
<th>Packaging</th>
<th>Description</th>
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<tbody>
<tr>
<td>Slat Packing</td>
<td>Wood slats are banded securely to the hose protecting the structural integrity of the assembly during shipping. Recommended for hoses that are shipped in straight lengths, 6” I.D. and larger.</td>
</tr>
<tr>
<td>Custom Crating</td>
<td>Custom fabricated shipping crates protect the hose and minimize shipping costs.</td>
</tr>
<tr>
<td>Product</td>
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</table>
SS124 AIRCRAFT FUELING HOSE

- Economically designed, ultra-flexible aircraft fueling hose.
- Meets or exceeds all requirements for aircraft refueling hose:
  API 1529/6th Edition 2005, Type C, Grade 1, NFPA 407,
  Maximum W.P. 150 PSI. Tested to 300 PSI.
- Lightweight construction allows easy handling for reel service.

Tube: Extruded specially compounded Nitrile.
Reinforcement: Textile.
Cover: Specially compounded Nitrile.
Temperature: -40° to +180°F.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>REINFORCEMENT</th>
<th>WORKING PRESSURE PSI</th>
<th>WEIGHT LB/FT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1&quot;</td>
<td>1 1/16&quot;</td>
<td>2 plies</td>
<td>150</td>
<td>.56</td>
</tr>
<tr>
<td>1 1/4&quot;</td>
<td>1 15/16&quot;</td>
<td>2 plies</td>
<td>150</td>
<td>.66</td>
</tr>
<tr>
<td>1 1/2&quot;</td>
<td>2 1/16&quot;</td>
<td>2 plies</td>
<td>150</td>
<td>.79</td>
</tr>
<tr>
<td>2&quot;</td>
<td>2 1/4&quot;</td>
<td>2 plies</td>
<td>150</td>
<td>1.01</td>
</tr>
</tbody>
</table>

Sold in coupled, tested, and certified lengths.

SS244 AIRCRAFT FUELING HOSE

- Designed to handle commercial and military aviation fuels.
- Excellent for top deck reel and platform type refuelers.
- High grade seamless extruded tube diminishes contamination of fuels and fuel systems.
- Meets or exceeds all requirements for aircraft fueling hose specified in API 1529/6th Edition 2005 Type C, Grade 2, NFPA 407, BS EN1361:1997/C, Maximum w.p. 300 PSI (20 bars), Hydrostatically tested to 600 PSI.

Tube: Extruded Nitrile.
Reinforcement: Textile.
Cover: Specially compounded Nitrile.
Temperature: -40° to +180°F.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>REINFORCEMENT</th>
<th>WORKING PRESSURE PSI</th>
<th>WEIGHT LB/FT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1&quot;</td>
<td>1 11/16&quot;</td>
<td>4 plies</td>
<td>300</td>
<td>.64</td>
</tr>
<tr>
<td>1 1/4&quot;</td>
<td>1 15/16&quot;</td>
<td>4 plies</td>
<td>300</td>
<td>.76</td>
</tr>
<tr>
<td>1 1/2&quot;</td>
<td>2 3/16&quot;</td>
<td>4 plies</td>
<td>300</td>
<td>.91</td>
</tr>
<tr>
<td>2&quot;</td>
<td>2 3/4&quot;</td>
<td>4 plies</td>
<td>300</td>
<td>1.23</td>
</tr>
<tr>
<td>2 1/2&quot;</td>
<td>3 1/16&quot;</td>
<td>4 plies</td>
<td>300</td>
<td>1.50</td>
</tr>
<tr>
<td>3&quot;</td>
<td>3 7/8&quot;</td>
<td>4 plies</td>
<td>300</td>
<td>1.85</td>
</tr>
<tr>
<td>4&quot;</td>
<td>4 5/8&quot;</td>
<td>6 plies</td>
<td>300</td>
<td>2.80</td>
</tr>
</tbody>
</table>

Sold in coupled, tested, and certified lengths.

SW344 AIRCRAFT JAC-RISER HOSE

- Designed for aircraft refuelers equipped with moveable service platforms to act as a flexible connection between the platform and the refueling truck.
- Excellent for defueling applications.
- Meets or exceeds all requirements specified in API 1529/6th Edition 2005 Type E, Grade 2, & NFPA 407, BS EN1361:1997/E, Maximum w.p. 300 PSI, Hydrostatically tested to 600 PSI.

Tube: Extruded Nitrile.
Reinforcement: Textile with dual wire helix.
Cover: Specially compounded Nitrile.
Temperature: -40° to +180°F.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>BEND RADIUS</th>
<th>WORKING PRESSURE PSI</th>
<th>WEIGHT LB/FT</th>
<th>VACUUM</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 1/2&quot;</td>
<td>2 5/16&quot;</td>
<td>6&quot;</td>
<td>300</td>
<td>1.34</td>
<td>Full</td>
</tr>
<tr>
<td>2&quot;</td>
<td>2 13/16&quot;</td>
<td>8&quot;</td>
<td>300</td>
<td>1.73</td>
<td>Full</td>
</tr>
<tr>
<td>3&quot;</td>
<td>3 7/8&quot;</td>
<td>12&quot;</td>
<td>300</td>
<td>2.75</td>
<td>Full</td>
</tr>
<tr>
<td>4&quot;</td>
<td>4 1/8&quot;</td>
<td>16&quot;</td>
<td>300</td>
<td>3.95</td>
<td>Full</td>
</tr>
</tbody>
</table>

Sold in coupled, tested, and certified lengths.

www.titanindustries.com
800-242-HOSE (4673) • Fax 562.869.05.92
### CHEMICAL

<table>
<thead>
<tr>
<th>Product</th>
<th>Page</th>
<th>Size</th>
<th>W.P.</th>
<th>Tube</th>
<th>Cover</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP483</td>
<td>18</td>
<td>2&quot; - 4&quot;</td>
<td>150</td>
<td>Modified Cross-Linked Polyethylene</td>
<td>Blue Synthetic Rubber w/external PVC helix</td>
<td>Light-N-Bright chemical suction and discharge. Handles 90% of all known industrial chemicals.</td>
</tr>
<tr>
<td>SW373</td>
<td>18</td>
<td>½” - 6”</td>
<td>100 - 500</td>
<td>FEP (Teflon®)</td>
<td>Yellow EPDM</td>
<td>High temperature chemical suction hose designed for sanitary, pharmaceutical, and high purity applications.</td>
</tr>
<tr>
<td>SW383</td>
<td>18</td>
<td>1” - 6”</td>
<td>150 - 200</td>
<td>Modified Cross-Linked Polyethylene</td>
<td>Blue EPDM</td>
<td>Chemical suction hose designed for transferring corrosive chemicals, acids and petro-chemicals.</td>
</tr>
<tr>
<td>SW393</td>
<td>19</td>
<td>1” - 4”</td>
<td>200</td>
<td>UHMWPE</td>
<td>Blue EPDM</td>
<td>Chemical suction and discharge hose formulated to handle 98% of all known industrial chemicals.</td>
</tr>
<tr>
<td>SWC393</td>
<td>19</td>
<td>1½” - 4”</td>
<td>200</td>
<td>UHMWPE</td>
<td>Corrugated Blue EPDM</td>
<td>Corrugated chemical suction hose formulated to handle 98% of all known industrial chemicals.</td>
</tr>
<tr>
<td>SWC683</td>
<td>19</td>
<td>1” - 4”</td>
<td>200 - 250</td>
<td>Modified Cross-Linked Polyethylene</td>
<td>Corrugated Black EPDM</td>
<td>Lightweight, ultra-flexible corrugated chemical suction and discharge hose.</td>
</tr>
<tr>
<td>SWC683G</td>
<td>19</td>
<td>1” - 4”</td>
<td>200 - 250</td>
<td>Modified Cross-Linked Polyethylene</td>
<td>Corrugated Green EPDM</td>
<td>Lightweight, ultra-flexible corrugated chemical suction and discharge hose.</td>
</tr>
</tbody>
</table>

Teflon® is a registered tradename of DuPont

www.titanindustries.com
800-242-HOSE (4673) • Fax 562.869.05.92
Warning!

Failure of chemical hose in service can result in serious injury, death, or damage to property. All chemical hose manufacturers recommend specific hose constructions to handle various chemicals. If you have any questions about proper hose selection after careful review of the chemical resistance charts found on pages 76-84 of this catalog, contact Titan customer service at 800-242-4673 for technical assistance before using or recommending a hose product.

Do not use chemical hose at temperatures or pressures exceeding those as specified by the product. All operators must be thoroughly trained in the care and use of the hose, and must at all times wear protective clothing. A hose system failure could cause the release of poisonous, corrosive, or flammable material.

Handling

• Crushing or kinking of the hose can cause severe damage to the reinforcement. Care should be exercised to prevent mishandling.

• Use proper hose suspension equipment when lifting or dragging a hose to ensure the recommended curvature is not exceeded. Avoid sharp bends at the end fittings and at manifold connections.

Operation

• Personnel involved in an operation using chemical hose must use safety precautions such as wearing eye or face protection, rubber gloves, boots, and other types of protective clothing.

• Pressures and temperatures are to be monitored to see that the hose is not exposed to conditions above specified limits. Exceeding specified limits could damage the hose and result in damage to property and serious bodily harm.

• Never allow chemicals to drip on the exterior of the hose or allow hose to lie in a pool of chemical since the cover may not have the same level of corrosion resistance as the tube. Should a corrosive material come in contact with the reinforcing material, early failure will result.
**SW373 FEP CHEMICAL SUCTION HOSE**

- Versatile chemical suction and discharge hose designed to handle 90% of all known industrial chemicals.
- Modified XLPE tube offers superior chemical resistance.
- External PVC rod provides abrasion resistance and flexibility.
- 4 to 1 safety factor for protection against impulse surges to help reduce worker injuries and environmental accidents.

**Tube:** Extruded Modified Cross-Linked Polyethylene.

**Reinforcement:** Textile and static wire, supported by an external PVC helix.

**Cover:** Blue synthetic rubber.

**Temperature:** -40° to +180°F.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>Bend Radius</th>
<th>Working Pressure PSI</th>
<th>Weight LB/FT</th>
<th>Vacuum</th>
</tr>
</thead>
<tbody>
<tr>
<td>2&quot;</td>
<td>3&quot;</td>
<td>10&quot;</td>
<td>150</td>
<td>1.34</td>
<td>Full</td>
</tr>
<tr>
<td>3&quot;</td>
<td>4&quot;</td>
<td>15&quot;</td>
<td>150</td>
<td>1.89</td>
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</tr>
<tr>
<td>4&quot;</td>
<td>5&quot;</td>
<td>20&quot;</td>
<td>150</td>
<td>2.45</td>
<td>Full</td>
</tr>
</tbody>
</table>

**SW383 EXACT-CHEM MODIFIED CROSS-LINKED HOSE**

- Designed for sanitary, pharmaceutical, high purity, distillery flex connections, and industrial chemicals with high temperature factors.
- Handles 99.5% of all known industrial chemicals.

**Tube:** Extruded white FDA FEP (Teflon® or Neoflon®).

**Reinforcement:** Textile with wire helix.

**Cover:** Yellow EPDM.

**Temperature:** -40° to +300°F.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>Bend Radius</th>
<th>Working Pressure PSI</th>
<th>Weight LB/FT</th>
<th>Vacuum</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2&quot;</td>
<td>3/4&quot;</td>
<td>7&quot;</td>
<td>500</td>
<td>.37</td>
<td>Full</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>1&quot;</td>
<td>8&quot;</td>
<td>500</td>
<td>.55</td>
<td>Full</td>
</tr>
<tr>
<td>1&quot;</td>
<td>1 1/2&quot;</td>
<td>9&quot;</td>
<td>400</td>
<td>.69</td>
<td>Full</td>
</tr>
<tr>
<td>1 1/4&quot;</td>
<td>1 1/4&quot;</td>
<td>11&quot;</td>
<td>375</td>
<td>.75</td>
<td>Full</td>
</tr>
<tr>
<td>1 1/2&quot;</td>
<td>2&quot;</td>
<td>12&quot;</td>
<td>350</td>
<td>1.11</td>
<td>Full</td>
</tr>
<tr>
<td>2&quot;</td>
<td>2 1/4&quot;</td>
<td>16&quot;</td>
<td>300</td>
<td>1.57</td>
<td>Full</td>
</tr>
<tr>
<td>3&quot;</td>
<td>3 1/4&quot;</td>
<td>30&quot;</td>
<td>200</td>
<td>2.86</td>
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<td>4&quot;</td>
<td>5&quot;</td>
<td>42&quot;</td>
<td>150</td>
<td>4.28</td>
<td>Full</td>
</tr>
<tr>
<td>6&quot;</td>
<td>7 1/4&quot;</td>
<td>48&quot;</td>
<td>100</td>
<td>7.66</td>
<td>Full</td>
</tr>
</tbody>
</table>

**WARNING:** Do not use chemical hose at temperatures or pressures above those recommended.

**SP483 LIGHT-N-BRIGHT CHEMICAL SUCTION - MOD CROSS-LINK**

- Designed for the transfer of corrosive chemicals, acids, fuels, and petro-chemical products.
- Specially formulated tube and lightweight construction provide superior flexibility for handling ease.
- High grade chemical, ozone, and abrasion resistant cover.
- Dual helix construction allows full vacuum capabilities.

**Tube:** Extruded Modified Cross-Linked Polyethylene.

**Reinforcement:** Textile with dual wire helix.

**Cover:** EPDM.

**Temperature:** -40° to +225°F.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>Bend Radius</th>
<th>Working Pressure PSI</th>
<th>Weight LB/FT</th>
<th>Vacuum</th>
</tr>
</thead>
<tbody>
<tr>
<td>1&quot;</td>
<td>1 1/2&quot;</td>
<td>6&quot;</td>
<td>200</td>
<td>.55</td>
<td>Full</td>
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<tr>
<td>1 1/4&quot;</td>
<td>1 1/4&quot;</td>
<td>8&quot;</td>
<td>200</td>
<td>.64</td>
<td>Full</td>
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<tr>
<td>1 1/2&quot;</td>
<td>2&quot;</td>
<td>9&quot;</td>
<td>200</td>
<td>.76</td>
<td>Full</td>
</tr>
<tr>
<td>2&quot;</td>
<td>2 1/2&quot;</td>
<td>12&quot;</td>
<td>200</td>
<td>1.08</td>
<td>Full</td>
</tr>
<tr>
<td>3&quot;</td>
<td>3 1/2&quot;</td>
<td>18&quot;</td>
<td>150</td>
<td>2.05</td>
<td>Full</td>
</tr>
<tr>
<td>4&quot;</td>
<td>4 1/2&quot;</td>
<td>28&quot;</td>
<td>150</td>
<td>2.97</td>
<td>Full</td>
</tr>
<tr>
<td>6&quot;</td>
<td>6 1/4&quot;</td>
<td>42&quot;</td>
<td>150</td>
<td>6.24</td>
<td>Full</td>
</tr>
</tbody>
</table>

Teflon® is a registered trademark of Dupont. Neoflon® is a registered trademark of Daikin.
**SW393 CHEM-LITE UHMWPE CHEMICAL**

- Premium quality UHMWPE chemical suction hose specially formulated to handle 98% of all known industrial chemicals.
- Dual helix construction allows full vacuum capabilities.
- Tube meets FDA requirements.

**Tube:** UHMWPE (Ultra High Molecular Weight Polyethylene).

**Reinforcement:** Textile with dual wire helix.

**Cover:** Blue EPDM (Smooth or corrugated).

**Temperature:** -40° to +200°F. (250°F. cleaning temperature).

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>Bend Radius</th>
<th>Working Pressure PSI</th>
<th>Weight LB/FT</th>
<th>Vacuum</th>
</tr>
</thead>
<tbody>
<tr>
<td>1&quot;</td>
<td>1 1/2&quot;</td>
<td>6&quot;</td>
<td>200</td>
<td>.52</td>
<td>Full</td>
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<td>9&quot;</td>
<td>200</td>
<td>.76</td>
<td>Full</td>
</tr>
<tr>
<td>2&quot;</td>
<td>2 1/2&quot;</td>
<td>12&quot;</td>
<td>200</td>
<td>1.05</td>
<td>Full</td>
</tr>
<tr>
<td>3&quot;</td>
<td>3 3/16&quot;</td>
<td>18&quot;</td>
<td>200</td>
<td>1.77</td>
<td>Full</td>
</tr>
<tr>
<td>4&quot;</td>
<td>4 1/4&quot;</td>
<td>28&quot;</td>
<td>200</td>
<td>2.60</td>
<td>Full</td>
</tr>
</tbody>
</table>

**SW393 CHEM-LITE CORRUG UHMWPE CHEMICAL**

- Lightweight, kink resistant chemical suction hose.
- Extreme flexibility and superior bend radius allows easy handling and long-lasting performance.
- Seamless Modified Cross-Linked tube provides high chemical resistance for a variety of chemical transfer applications.
- Will not delaminate, leach, or contaminate conveyed product.
- Can be cleaned with hot water, 10% alkali bath, or low pressure steam.

**Tube:** Extruded Modified Cross-Linked Polyethylene.

**Reinforcement:** Textile with dual wire helix.

**Cover:** Corrugated black or green EPDM.

**Temperature:** -40° to +250°F.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>Bend Radius</th>
<th>Working Pressure PSI</th>
<th>Weight LB/FT</th>
<th>Vacuum</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 1/2&quot;</td>
<td>2 1/16&quot;</td>
<td>6&quot;</td>
<td>200</td>
<td>.92</td>
<td>Full</td>
</tr>
<tr>
<td>2&quot;</td>
<td>2 7/32&quot;</td>
<td>8&quot;</td>
<td>200</td>
<td>1.35</td>
<td>Full</td>
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<tr>
<td>3&quot;</td>
<td>3 3/32&quot;</td>
<td>12&quot;</td>
<td>200</td>
<td>1.98</td>
<td>Full</td>
</tr>
<tr>
<td>4&quot;</td>
<td>4 1/4&quot;</td>
<td>20&quot;</td>
<td>200</td>
<td>3.15</td>
<td>Full</td>
</tr>
</tbody>
</table>

**SWC683 TITANFLEX® CHEMICAL MOD XLPE (BLACK)**

- Lightweight, kink resistant chemical suction hose.
- Extreme flexibility and superior bend radius allows easy handling and long-lasting performance.
- Seamless Modified Cross-Linked tube provides high chemical resistance for a variety of chemical transfer applications.
- Will not delaminate, leach, or contaminate conveyed product.
- Can be cleaned with hot water, 10% alkali bath, or low pressure steam.

**Tube:** Extruded Modified Cross-Linked Polyethylene.

**Reinforcement:** Textile with dual wire helix.

**Cover:** Corrugated black or green EPDM.

**Temperature:** -40° to +250°F.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>Bend Radius</th>
<th>Working Pressure PSI</th>
<th>Weight LB/FT</th>
<th>Vacuum</th>
</tr>
</thead>
<tbody>
<tr>
<td>1&quot;</td>
<td>1 1/2&quot;</td>
<td>2&quot;</td>
<td>250</td>
<td>.47</td>
<td>Full</td>
</tr>
<tr>
<td>1 1/2&quot;</td>
<td>2 1/8&quot;</td>
<td>3&quot;</td>
<td>250</td>
<td>.75</td>
<td>Full</td>
</tr>
<tr>
<td>2&quot;</td>
<td>2 5/8&quot;</td>
<td>4&quot;</td>
<td>250</td>
<td>1.02</td>
<td>Full</td>
</tr>
<tr>
<td>2 1/4&quot;</td>
<td>3 1/2&quot;</td>
<td>5&quot;</td>
<td>200</td>
<td>1.44</td>
<td>Full</td>
</tr>
<tr>
<td>3&quot;</td>
<td>3 5/8&quot;</td>
<td>6&quot;</td>
<td>200</td>
<td>1.81</td>
<td>Full</td>
</tr>
<tr>
<td>4&quot;</td>
<td>4 3/4&quot;</td>
<td>8&quot;</td>
<td>200</td>
<td>2.43</td>
<td>Full</td>
</tr>
</tbody>
</table>

**SWC683G TITANFLEX® CHEMICAL MOD XLPE (GRN)**

- Lightweight, kink resistant chemical suction hose.
- Extreme flexibility and superior bend radius allows easy handling and long-lasting performance.
- Seamless Modified Cross-Linked tube provides high chemical resistance for a variety of chemical transfer applications.
- Will not delaminate, leach, or contaminate conveyed product.
- Can be cleaned with hot water, 10% alkali bath, or low pressure steam.

**Tube:** Extruded Modified Cross-Linked Polyethylene.

**Reinforcement:** Textile with dual wire helix.

**Cover:** Corrugated black or green EPDM.

**Temperature:** -40° to +250°F.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>Bend Radius</th>
<th>Working Pressure PSI</th>
<th>Weight LB/FT</th>
<th>Vacuum</th>
</tr>
</thead>
<tbody>
<tr>
<td>1&quot;</td>
<td>1 1/2&quot;</td>
<td>2&quot;</td>
<td>250</td>
<td>.49</td>
<td>Full</td>
</tr>
<tr>
<td>1 1/2&quot;</td>
<td>2 1/8&quot;</td>
<td>3&quot;</td>
<td>250</td>
<td>.77</td>
<td>Full</td>
</tr>
<tr>
<td>2&quot;</td>
<td>2 5/8&quot;</td>
<td>4&quot;</td>
<td>250</td>
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<td>6&quot;</td>
<td>200</td>
<td>1.86</td>
<td>Full</td>
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<td>4&quot;</td>
<td>4 3/4&quot;</td>
<td>8&quot;</td>
<td>200</td>
<td>2.57</td>
<td>Full</td>
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</tbody>
</table>

**WARNING:** Do not use chemical hose at temperatures or pressures above those recommended.
**CONCRETE**

<table>
<thead>
<tr>
<th>Product</th>
<th>Page</th>
<th>Size</th>
<th>W.P.</th>
<th>Tube</th>
<th>Cover</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SS120</td>
<td>21</td>
<td>1” - 6”</td>
<td>500 - 800</td>
<td>SBR</td>
<td>SBR</td>
<td>Economically designed concrete placement hose.</td>
</tr>
<tr>
<td>SS123</td>
<td>21</td>
<td>1” - 6”</td>
<td>500 - 800</td>
<td>SBR</td>
<td>SBR</td>
<td>Premium grade concrete pump hose.</td>
</tr>
<tr>
<td>SS201</td>
<td>21</td>
<td>1½” - 4”</td>
<td>800 - 1200</td>
<td>SBR</td>
<td>SBR</td>
<td>High pressure plaster and grout hose.</td>
</tr>
</tbody>
</table>
SS123 PREMIUM CONCRETE PUMP HOSE

- Economically designed concrete placement hose for wet abrasive materials.
- Excellent flexibility for handling ease.
- Rugged, abrasion resistant SBR cover protects against cuts, scuffs, gouges, and ozone attack.

Tube:    Extruded SBR.
Reinforcement:  Textile.
Cover:   SBR.
Temperature:  -40° to +180°F.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>REINFORCEMENT</th>
<th>WORKING PRESSURE PSI</th>
<th>WEIGHT LB/FT</th>
</tr>
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<tbody>
<tr>
<td>1&quot;</td>
<td>1 1/2&quot;</td>
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<td>800</td>
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<tr>
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<td>1 3/4&quot;</td>
<td>2 plies</td>
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<td>.57</td>
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<tr>
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<td>2 1/4&quot;</td>
<td>2 plies</td>
<td>800</td>
<td>.99</td>
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<td>2 1/4&quot;</td>
<td>4 plies</td>
<td>800</td>
<td>1.42</td>
</tr>
<tr>
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<td>3 1/4&quot;</td>
<td>4 plies</td>
<td>500</td>
<td>1.71</td>
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<td>500</td>
<td>3.47</td>
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<td>500</td>
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<tr>
<td>6&quot;</td>
<td>7 1/4&quot;</td>
<td>6 plies</td>
<td>500</td>
<td>6.40</td>
</tr>
</tbody>
</table>

SS120 CONCRETE PUMP HOSE

- Economically designed concrete placement hose for wet abrasive materials.
- Excellent flexibility for handling ease.
- Rugged, abrasion resistant SBR cover protects against cuts, scuffs, gouges, and ozone attack.

Tube:    Extruded SBR.
Reinforcement:  Textile.
Cover:   SBR.
Temperature:  -40° to +180°F.

SS201 GOLIATH HIGH PRESSURE GROUT HOSE

- High pressure grout hose designed specifically for high pressure plaster, grout, shotcrete, and cement applications.
- Unique manufacturing method minimizes contraction and elongation while remaining flexible for handling ease.
- Durable cover resists cuts, abrasions, and ozone attack.

Tube:    Extruded SBR.
Reinforcement:  Textile.
Cover:   SBR.
Temperature:  -40° to +180°F.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>REINFORCEMENT</th>
<th>WORKING PRESSURE PSI</th>
<th>WEIGHT LB/FT</th>
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</thead>
<tbody>
<tr>
<td>1/4&quot;</td>
<td>2/8&quot;</td>
<td>4 plies</td>
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<tr>
<td>2&quot;</td>
<td>3&quot;</td>
<td>6 plies</td>
<td>1200</td>
<td>1.97</td>
</tr>
<tr>
<td>2 1/8&quot;</td>
<td>3 1/8&quot;</td>
<td>6 plies</td>
<td>1000</td>
<td>2.42</td>
</tr>
<tr>
<td>3&quot;</td>
<td>4 1/8&quot;</td>
<td>6 plies</td>
<td>1000</td>
<td>3.29</td>
</tr>
<tr>
<td>4&quot;</td>
<td>5 1/8&quot;</td>
<td>6 plies</td>
<td>800</td>
<td>4.41</td>
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</table>
### DOCK / O.S.& D.

<table>
<thead>
<tr>
<th>Product</th>
<th>Page</th>
<th>Size</th>
<th>W.P.</th>
<th>Tube</th>
<th>Cover</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EW339</td>
<td>23</td>
<td>6” - 12”</td>
<td>200</td>
<td>Nitrile</td>
<td>Synthetic Rubber</td>
<td>Heavy duty dock hose designed for petroleum transfer from tankers, barges, and storage tanks.</td>
</tr>
<tr>
<td>EW339RB</td>
<td>23</td>
<td>6” - 10”</td>
<td>200</td>
<td>Nitrile</td>
<td>Synthetic Rubber</td>
<td>Rough bore dock hose designed for heavy duty service of loading and unloading of tankers and barges.</td>
</tr>
<tr>
<td>EW399</td>
<td>24</td>
<td>4” - 8”</td>
<td>250</td>
<td>FKM (Viton®)</td>
<td>Synthetic Rubber</td>
<td>Heavy duty, high pressure dock hose excellent for petro-chemical applications.</td>
</tr>
<tr>
<td>EW460RB</td>
<td>24</td>
<td>6” - 10”</td>
<td>200</td>
<td>EPDM</td>
<td>EPDM</td>
<td>Heavy duty Molten Sulphur dock hose.</td>
</tr>
<tr>
<td>EWC439</td>
<td>24</td>
<td>4” - 12”</td>
<td>225</td>
<td>Nitrile</td>
<td>Synthetic Rubber</td>
<td>Heavy duty, all-purpose oil suction and discharge hose.</td>
</tr>
<tr>
<td>SW339</td>
<td>25</td>
<td>4” - 8”</td>
<td>200</td>
<td>Nitrile</td>
<td>Synthetic Rubber</td>
<td>Heavy duty dock hose designed for transferring petroleum products to and from tankers and barges.</td>
</tr>
<tr>
<td>SW355</td>
<td>25</td>
<td>3” - 6”</td>
<td>300</td>
<td>Nitrile</td>
<td>Nitrile</td>
<td>High pressure dock hose for barge transfer applications.</td>
</tr>
<tr>
<td>SW356</td>
<td>25</td>
<td>4” - 8”</td>
<td>250 - 300</td>
<td>Nitrile</td>
<td>Nitrile</td>
<td>Rugged, heavy duty dock/O.S.&amp; D. hose designed to handle up to 60% aromatics.</td>
</tr>
</tbody>
</table>
**EW339 NITRILE / OIL SERVICE HOSE - 200 PSI**

- Heavy duty suction and discharge dock hose designed specifically for transferring petroleum products to and from tankers, barges, and storage tanks.
- Exclusive construction allows for excellent flexibility.
- Specially formulated tube is resistant up to 50% aromatics.
- Rugged cover is resistant to oil, cuts, scuffs, and ozone attack.

**Tube:** Nitrile.
**Reinforcement:** High strength tire cord with steel wire helix.
**Cover:** Oil resistant synthetic rubber.
**Temperature:** -40° to +180°F.

**Custom Made Hose Product**
Refer to SW339 (page 25) for additional sizes.
EWC339 with corrugated construction available upon request.
150, 250, and 300 psi working pressures available upon request.

**I.D.** | **O.D.** | **BEND RADIUS** | **WORKING PRESSURE PSI** | **WEIGHT LB/FT** | **VACUUM** |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot;</td>
<td>7 1/8&quot;</td>
<td>36&quot;</td>
<td>200</td>
<td>8.00</td>
<td>Full</td>
</tr>
<tr>
<td>8&quot;</td>
<td>9 1/4&quot;</td>
<td>48&quot;</td>
<td>200</td>
<td>13.30</td>
<td>Full</td>
</tr>
<tr>
<td>10&quot;</td>
<td>11 5/8&quot;</td>
<td>60&quot;</td>
<td>200</td>
<td>20.00</td>
<td>Full</td>
</tr>
<tr>
<td>12&quot;</td>
<td>13 3/4&quot;</td>
<td>72&quot;</td>
<td>200</td>
<td>27.00</td>
<td>Full</td>
</tr>
</tbody>
</table>

**EW339RB ROUGH BORE DOCK HOSE - 200 PSI**

- Rough Bore Dock hose with flat inner wire is specially designed for heavy duty service and the severe and rough conditions of loading and unloading of tankers and barges.
- Manufactured with built-in nipples and fixed or floating flanges.
- Steel flat inner wire reinforcement is bonded at each end to the built-in nipples to eliminate the hazards of static electricity.
- Flat HDMB Class 1 steel wire construction.
- Safely handles hot fluids up to 180°F (82°C).

**Tube:** High grade Nitrile.
**Reinforcement:** Tire cord with steel flat wire helix and steel spiral wire helix between plies.
**Cover:** Oil resistant synthetic rubber.
**Temperature:** Up to +180°F.

**Custom Made Hose Product**
Meets all construction and performance specification requirements for Exxon/Mobil and other refineries.

**I.D.** | **O.D.** | **BEND RADIUS** | **WORKING PRESSURE PSI** | **WEIGHT LB/FT** | **VACUUM** | **COUPLINGS** |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot;</td>
<td>8&quot;</td>
<td>36&quot;</td>
<td>200</td>
<td>5.10</td>
<td>Full</td>
<td>100#</td>
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<tr>
<td>8&quot;</td>
<td>10 1/2&quot;</td>
<td>48&quot;</td>
<td>200</td>
<td>20.80</td>
<td>Full</td>
<td>150#</td>
</tr>
<tr>
<td>10&quot;</td>
<td>12 1/2&quot;</td>
<td>60&quot;</td>
<td>200</td>
<td>31.50</td>
<td>Full</td>
<td>200#</td>
</tr>
</tbody>
</table>
EW399 DOCK / O.S.& D. HOSE - 250 PSI

- Heavy duty, high pressure, suction and discharge dock hose excellent for petro-chemical applications.
- Rugged all-purpose cover is chemical, oil, scuff, gouge, and ozone resistant.

**Tube:** FKM Fluoroelastomer.
**Reinforcement:** High strength tire cord with steel wire helix.
**Cover:** Oil resistant synthetic rubber.
**Temperature:** -40° to +180°F.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>Bend Radius</th>
<th>Working Pressure PSI</th>
<th>Weight LB/FT</th>
<th>Vacuum</th>
</tr>
</thead>
<tbody>
<tr>
<td>4&quot;</td>
<td>5&quot;</td>
<td>24&quot;</td>
<td>250</td>
<td>5.50</td>
<td>Full</td>
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<tr>
<td>6&quot;</td>
<td>7&quot;</td>
<td>36&quot;</td>
<td>250</td>
<td>8.50</td>
<td>Full</td>
</tr>
<tr>
<td>8&quot;</td>
<td>9&quot;</td>
<td>48&quot;</td>
<td>250</td>
<td>14.80</td>
<td>Full</td>
</tr>
</tbody>
</table>

EW460RB MOLTEN SULPHUR DOCK HOSE

- Heavy duty modified rough bore construction designed to handle Molten Sulphur up to 300°F.
- Heat and chemical resistant high grade EPDM tube and cover.

**Tube:** Black high grade EPDM.
**Reinforcement:** High strength tire cord with steel wire helix.
**Cover:** EPDM.
**Temperature:** -40° to +300°F.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>Bend Radius</th>
<th>Working Pressure PSI</th>
<th>Weight LB/FT</th>
<th>Vacuum</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot;</td>
<td>8&quot;</td>
<td>42&quot;</td>
<td>200</td>
<td>12.00</td>
<td>Full</td>
</tr>
<tr>
<td>8&quot;</td>
<td>10¼&quot;</td>
<td>54&quot;</td>
<td>200</td>
<td>20.00</td>
<td>Full</td>
</tr>
<tr>
<td>10&quot;</td>
<td>12¾&quot;</td>
<td>66&quot;</td>
<td>200</td>
<td>28.00</td>
<td>Full</td>
</tr>
</tbody>
</table>

EW399 FLEX BARGE DOCK HOSE - 225 PSI

- Heavy duty, all purpose oil suction and discharge hose suitable for up to 60% aromatics.
- Corrugated construction provides superior flexibility and kink resistance.
- Dual wire helix reinforcement provides full vacuum capabilities.
- High grade multi-purpose cover is oil, ozone, abrasion, and gouge resistant.

**Tube:** Nitrile.
**Reinforcement:** High strength tire cord with dual steel wire helix.
**Cover:** Oil resistant synthetic rubber.
**Temperature:** -40° to +180°F.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>Bend Radius</th>
<th>Working Pressure PSI</th>
<th>Weight LB/FT</th>
<th>Vacuum</th>
</tr>
</thead>
<tbody>
<tr>
<td>4&quot;</td>
<td>5&quot;</td>
<td>18&quot;</td>
<td>225</td>
<td>4.30</td>
<td>Full</td>
</tr>
<tr>
<td>6&quot;</td>
<td>7¾&quot;</td>
<td>27&quot;</td>
<td>225</td>
<td>8.20</td>
<td>Full</td>
</tr>
<tr>
<td>8&quot;</td>
<td>9½&quot;</td>
<td>36&quot;</td>
<td>225</td>
<td>12.30</td>
<td>Full</td>
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<tr>
<td>10&quot;</td>
<td>11¾&quot;</td>
<td>45&quot;</td>
<td>225</td>
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<tr>
<td>12&quot;</td>
<td>13½&quot;</td>
<td>54&quot;</td>
<td>225</td>
<td>27.06</td>
<td>Full</td>
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</tbody>
</table>
SW339 NITRILE / OIL SERVICE HOSE - 200 PSI

- Heavy duty dock hose designed to transfer petroleum products to and from tankers, barges and storage tanks.
- Exclusive construction allows for excellent flexibility.
- Specially formulated tube suitable for 50% aromatics.
- Rugged all weather cover is oil and ozone resistant.


<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>Bend Radius</th>
<th>Working Pressure PSI</th>
<th>Weight LB/FT</th>
<th>Vacuum</th>
</tr>
</thead>
<tbody>
<tr>
<td>4&quot;</td>
<td>5 3/16&quot;</td>
<td>16&quot;</td>
<td>200</td>
<td>5.80</td>
<td>Full</td>
</tr>
<tr>
<td>6&quot;</td>
<td>7 1/4&quot;</td>
<td>36&quot;</td>
<td>200</td>
<td>9.41</td>
<td>Full</td>
</tr>
<tr>
<td>8&quot;</td>
<td>9 3/4&quot;</td>
<td>48&quot;</td>
<td>200</td>
<td>12.35</td>
<td>Full</td>
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</tbody>
</table>

MTBE and Ethanol capable.

Refer to EW339 (page 23) for larger sizes.

SW339 with corrugated construction available upon request.

SW355 PETROLEUM / OIL SERVICE - 300 PSI

- High pressure petroleum suction and discharge hose designed for barge transfer applications.
- Specially formulated tube is suitable for up to 60% aromatics.
- Dual helix wire reinforcement provides full vacuum capabilities.
- Heavy duty abrasion resistant cover protects against petroleum and chemical products, scuffs, cuts, and ozone attack.


<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>Bend Radius</th>
<th>Working Pressure PSI</th>
<th>Weight LB/FT</th>
<th>Vacuum</th>
</tr>
</thead>
<tbody>
<tr>
<td>3&quot;</td>
<td>4&quot;</td>
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<td>300</td>
<td>2.84</td>
<td>Full</td>
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<tr>
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<td>5&quot;</td>
<td>16&quot;</td>
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<td>3.84</td>
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<td>7&quot;</td>
<td>36&quot;</td>
<td>300</td>
<td>7.38</td>
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</tbody>
</table>

SW355 is not recommended for heavy duty dock hose applications.

SW356 HEAVY DUTY DOCK / O.S. & D. HOSE

- Rugged, heavy duty suction and discharge dock hose suitable for up to 60% aromatics.
- Dual wire helix reinforcement provides full vacuum capabilities and kink resistance.
- Cover is oil, scuff, cut, abrasion, and ozone resistant.


<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>Bend Radius</th>
<th>Working Pressure PSI</th>
<th>Weight LB/FT</th>
<th>Vacuum</th>
</tr>
</thead>
<tbody>
<tr>
<td>4&quot;</td>
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<td>300</td>
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<td>Full</td>
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<td>7 3/8&quot;</td>
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<td>300</td>
<td>9.80</td>
<td>Full</td>
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<td>46&quot;</td>
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<td>Page</td>
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<td>Cover</td>
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<tr>
<td>---------</td>
<td>------</td>
<td>-----------</td>
<td>-------</td>
<td>--------------</td>
<td>-------</td>
</tr>
<tr>
<td>ES907</td>
<td>27</td>
<td>4” - 18”</td>
<td>150 - 200</td>
<td>⅜” Natural Rubber</td>
<td>SBR</td>
</tr>
<tr>
<td>ES908</td>
<td>27</td>
<td>4” - 18”</td>
<td>150 - 200</td>
<td>⅜” Natural Rubber</td>
<td>SBR</td>
</tr>
<tr>
<td>EW708</td>
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<td>4” - 18”</td>
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<td>⅜” Natural Rubber</td>
<td>SBR</td>
</tr>
<tr>
<td>EW709</td>
<td>28</td>
<td>4” - 18”</td>
<td>150 - 200</td>
<td>⅜” Natural Rubber</td>
<td>SBR</td>
</tr>
</tbody>
</table>
ES907 DREDGE SLEEVE - 3⁄8” NATURAL RUBBER TUBE

- Dredge hoses designed specifically for discharge service as a flexible connector between lengths of pipe to handle the shifting and twisting of pontoons caused by water movement.
- Excellent for conveying dredged materials to shore.

**Tube:** 3⁄8” Black Natural Rubber.

**Reinforcement:** High strength tire cord.

**Cover:** SBR.

**Temperature:** -40°F to +150°F.

### Custom Made Hose Product

Various tube gauges and working pressures available upon request.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>REINFORCEMENT</th>
<th>WORKING PRESSURE PSI</th>
<th>WEIGHT LB/FT</th>
</tr>
</thead>
<tbody>
<tr>
<td>4”</td>
<td>5/8”</td>
<td>2 plies</td>
<td>200</td>
<td>3.50</td>
</tr>
<tr>
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<td>5 3/8”</td>
<td>2 plies</td>
<td>200</td>
<td>3.90</td>
</tr>
<tr>
<td>5”</td>
<td>6 1/8”</td>
<td>2 plies</td>
<td>150</td>
<td>4.30</td>
</tr>
<tr>
<td>6”</td>
<td>7 1/4”</td>
<td>4 plies</td>
<td>150</td>
<td>6.10</td>
</tr>
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<td>150</td>
<td>8.30</td>
</tr>
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<td>150</td>
<td>8.90</td>
</tr>
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<td>12.00</td>
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</tr>
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<td>150</td>
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</tr>
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<td>6 plies</td>
<td>150</td>
<td>17.00</td>
</tr>
<tr>
<td>14”</td>
<td>15 3/4”</td>
<td>6 plies</td>
<td>150</td>
<td>18.50</td>
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<tr>
<td>16”</td>
<td>17 1/4”</td>
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<tr>
<td>18”</td>
<td>19 5/8”</td>
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<td>150</td>
<td>26.00</td>
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ES908 DREDGE SLEEVE - 1⁄2” NATURAL RUBBER TUBE

- Dredge hoses designed specifically for discharge service as a flexible connector between lengths of pipe to handle the shifting and twisting of pontoons caused by water movement.
- Excellent for conveying dredged materials to shore.

**Tube:** 1⁄2” Black Natural Rubber.

**Reinforcement:** High strength tire cord.

**Cover:** SBR.

**Temperature:** -40°F to +150°F.

### Custom Made Hose Product

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>REINFORCEMENT</th>
<th>WORKING PRESSURE PSI</th>
<th>WEIGHT LB/FT</th>
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<tr>
<td>4”</td>
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</tr>
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<td>8”</td>
<td>9 3/4”</td>
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<td>9.90</td>
</tr>
<tr>
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<td>10 1/8”</td>
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<td>15 3/4”</td>
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<td>150</td>
<td>20.00</td>
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<td>18”</td>
<td>8 plies</td>
<td>150</td>
<td>26.00</td>
</tr>
<tr>
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<td>20”</td>
<td>8 plies</td>
<td>150</td>
<td>30.00</td>
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</table>

DREDGE SLEEVE diameters are normally selected to match the pipe size of a discharge pipeline. The hose I.D. must fit the pipe O.D. Dredge Sleeves are also available with enlarged ends on lengths greater than 30”.

### CHOOSING THE RIGHT TUBE THICKNESS

- **3/8” Tube**: Light abrasion, sand, and small gravel.
- **1/2” Tube**: Large gravel, abrasive materials, or to gain additional service life.

Dredge Sleeves should be long enough to allow for misalignment, bending (free length of hose), and clamps at each end.
EW708 SAND SUCTION HOSE - 3/8” NATURAL RUBBER TUBE

- Designed to connect moveable suction lines to pump inlets and add flexibility on dredge barges.
- Excellent for heavy duty sand suction applications, slurries, and abrasive materials.

**Tube:** 3/8” Black Natural Rubber.
**Reinforcement:** High strength tire cord with steel wire helix.
**Cover:** SBR.
**Temperature:** -40° to +150°F.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>Bend Radius</th>
<th>Working Pressure PSI</th>
<th>Working Weight LB/FT</th>
<th>Vacuum</th>
</tr>
</thead>
<tbody>
<tr>
<td>4”</td>
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<tr>
<td>41/2”</td>
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<td>61/2”</td>
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<td>200</td>
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<td>Full</td>
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<tr>
<td>51/2”</td>
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<td>175</td>
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</tr>
<tr>
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<td>36”</td>
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<td>Full</td>
</tr>
<tr>
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**DETERMINING THE CORRECT DIAMETER**
In most applications, the diameter of the hose is determined by the pipe size of the suction or discharge line on the dredge.

**CHOOSING THE RIGHT TUBE THICKNESS**
- 3/8” Tube: Continuous service, sand, small gravel, and light abrasion service.
- 1/2” Tube: Recommended for all hose sizes where service is severe.

**LOCATIONS WHERE DREDGES ARE USED**
1. Gravel pits or lakes where sand or gravel is pumped ashore.
2. Coastal areas where sand, gravel, oyster, or clam shells are pumped to shore or onto barges.
3. Rivers, using either barge or shore discharge.

---

EW709 SAND SUCTION HOSE - 1/2” NATURAL RUBBER TUBE

- Designed to connect moveable suction lines to pump inlets and add flexibility on dredge barges.
- Excellent for heavy duty sand suction applications, slurries, and abrasive materials.

**Tube:** 1/2” Black Natural Rubber.
**Reinforcement:** High strength tire cord with steel wire helix.
**Cover:** SBR.
**Temperature:** -40° to +150°F.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>Bend Radius</th>
<th>Working Pressure PSI</th>
<th>Working Weight LB/FT</th>
<th>Vacuum</th>
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<td>Full</td>
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<tr>
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<td>Full</td>
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<td>51/2”</td>
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<tr>
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**FIRE ENGINE SUCTION**

<table>
<thead>
<tr>
<th>Product</th>
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<th>W.P.</th>
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<th>Cover</th>
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<td>SBR</td>
<td>SBR</td>
<td>Premium quality fire engine suction hose for remote water removal and fire truck hydrant connections.</td>
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<tr>
<td>LW720</td>
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<td>SBR</td>
<td>Corrugated SBR</td>
<td>Fire engine suction and discharge hose for remote water removal and fire truck hydrant connections.</td>
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</table>
LW701 HEAVY DUTY FIRE ENGINE SUCTION HOSE

- Premium quality, heavy duty fire engine suction hose designed for remote water removal and hydrant connections on fire trucks.
- Rugged cover design provides excellent abrasion and ozone resistance.

Tube: SBR.  
Reinforcement: Textile with steel wire helix.  
Cover: SBR.  
Temperature: -40° to +180°F.  
Meets or exceeds NFPA #1962 and #1901 requirements.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>Bend Radius</th>
<th>Working Pressure PSI</th>
<th>Weight LB/FT</th>
<th>Vacuum</th>
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<td>3½&quot;</td>
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<td>3¾&quot;</td>
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<td>150</td>
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<td>4¼&quot;</td>
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LW720 CORRUGATED FIRE ENGINE SUCTION HOSE

- Corrugated fire engine suction hose designed for remote water removal and hydrant connections on fire trucks.
- Rugged SBR cover provides excellent abrasion and ozone resistance.

Tube: SBR.  
Reinforcement: Textile with steel wire helix.  
Cover: Corrugated SBR.  
Temperature: -40° to +180°F.  
Meets or exceeds NFPA #1962 and #1901 requirements.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>Bend Radius</th>
<th>Working Pressure PSI</th>
<th>Weight LB/FT</th>
<th>Vacuum</th>
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<td>EPDM</td>
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</table>
SM382 HARVEST PLUS+ FOOD/BEVERAGE/WINE SUCTION

- Crush and kink resistant food hose suitable for milk, milk products, fruit juice, soft drinks, pharmaceutical products, and other non-oily liquid food products.
- Lightweight, easy to handle and bend due to its crush resistant monofilament helix reinforcement.
- Manufactured on stainless steel mandrels for an ultra-smooth bacteria free tube that will not impart taste or odor.
- EPDM cover assures excellent abrasion, ozone and mild chemical resistance.

**Tube:** Extruded white Chlorobutyl.
**Reinforcement:** Textile with monofilament helix.
**Cover:** Gray specially compounded EPDM.
**Temperature:** -40° to +225°F.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>Bend Radius</th>
<th>Working Pressure PSI</th>
<th>Weight LB/FT</th>
<th>Vacuum</th>
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<tbody>
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<td>250</td>
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<td>200</td>
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</tbody>
</table>

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SP330 LIGHT-N-BRIGHT FOOD & BEVERAGE HOSE - CHLOROBUTYL TUBE

- Lightweight, ultra-flexible specialty hose designed for handling food, beverages, and other sanitary products.
- Outer PVC helix design allows the hose to glide easily across plant floors while providing excellent abrasion resistance.

**Tube:** Extruded white Chlorobutyl.
**Reinforcement:** Textile supported by an external PVC helix.
**Cover:** Red synthetic rubber.
**Temperature:** -40° to +180°F.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>Bend Radius</th>
<th>Working Pressure PSI</th>
<th>Weight LB/FT</th>
<th>Vacuum</th>
</tr>
</thead>
<tbody>
<tr>
<td>1½”</td>
<td>2 1/4”</td>
<td>2”</td>
<td>150</td>
<td>1.39</td>
<td>Full</td>
</tr>
<tr>
<td>2”</td>
<td>2 25/32”</td>
<td>3”</td>
<td>150</td>
<td>1.73</td>
<td>Full</td>
</tr>
<tr>
<td>3”</td>
<td>3 25/32”</td>
<td>4”</td>
<td>150</td>
<td>2.48</td>
<td>Full</td>
</tr>
<tr>
<td>4”</td>
<td>4 25/32”</td>
<td>6”</td>
<td>150</td>
<td>3.53</td>
<td>Full</td>
</tr>
</tbody>
</table>

SP100 slinky sleeves recommended for banding (Page 54).
Microbe and bacteria resistant tube.
Meets FDA, USDA, 3A, and PMO sanitary requirements.
SS231 FOOD GRADE DISCHARGE HOSE - NATURAL RUBBER TUBE

- Low pressure sanitary discharge hose designed to handle dry food and beverage products. Excellent for in-plant transfer.
- Lightweight construction provides superior flexibility for handling ease.
- Manufactured on stainless steel mandrels for an ultra-smooth bacteria free tube that will not impart taste or odor.
- Abrasion resistant cover offers excellent ozone protection.

**Tube:** Extruded Natural Rubber.
**Reinforcement:** Textile with internal static wire.
**Cover:** Gray specially compounded Natural Rubber.
**Temperature:** -40° to +150°F.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>REINFORCEMENT</th>
<th>WORKING PRESSURE PSI</th>
<th>WEIGHT LB/FT</th>
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<tr>
<td>2&quot;</td>
<td>2 2/3&quot;</td>
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<td>1.60</td>
</tr>
<tr>
<td>2 2/3&quot;</td>
<td>3 2/3&quot;</td>
<td>2 plies</td>
<td>200</td>
<td>1.92</td>
</tr>
<tr>
<td>3&quot;</td>
<td>3 2/3&quot;</td>
<td>2 plies</td>
<td>140</td>
<td>2.23</td>
</tr>
<tr>
<td>4&quot;</td>
<td>4 2/3&quot;</td>
<td>2 plies</td>
<td>120</td>
<td>2.88</td>
</tr>
<tr>
<td>6&quot;</td>
<td>6 2/3&quot;</td>
<td>2 plies</td>
<td>110</td>
<td>4.27</td>
</tr>
</tbody>
</table>

SS200 BREWERS HOSE - CHLOROBUTYL TUBE

- Brewery discharge hose designed specifically for transferring non-oily foods and liquids in wineries and breweries.
- Special construction provides excellent flexibility and handling ease for in-plant use.
- Manufactured on stainless steel mandrels for an ultra-smooth bacteria free tube that is microbe resistant and will not impart taste or odor.
- Abrasion resistant cover offers excellent ozone protection.

**Tube:** Extruded white Chlorobutyl.
**Reinforcement:** Textile.
**Cover:** Orange specially compounded EPDM.
**Temperature:** -40° to +225°F.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>REINFORCEMENT</th>
<th>WORKING PRESSURE PSI</th>
<th>WEIGHT LB/FT</th>
</tr>
</thead>
<tbody>
<tr>
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<td>200</td>
<td>1.92</td>
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<tr>
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<td>3 27/32&quot;</td>
<td>2 plies</td>
<td>140</td>
<td>2.23</td>
</tr>
<tr>
<td>4&quot;</td>
<td>4 27/32&quot;</td>
<td>2 plies</td>
<td>120</td>
<td>2.88</td>
</tr>
<tr>
<td>6&quot;</td>
<td>6 27/32&quot;</td>
<td>2 plies</td>
<td>110</td>
<td>4.27</td>
</tr>
</tbody>
</table>

Capped ends available upon request.
Microbe and bacteria resistant tube.
Meets FDA, USDA, 3A, and PMO sanitary requirements.
**SS290 BEVERAGE AND POTABLE WATER HOSE - NITRILE TUBE**

- Lightweight, sanitary discharge hose designed to handle a wide variety of food and beverage transfer applications.
- Excellent C.I.P. cleaning hose for overhead units.
- Manufactured on stainless steel mandrels for an ultra-smooth bacteria free tube that will not impart taste or odor.

**Tube:** Extruded white Nitrile.

**Reinforcement:** Textile.

**Cover:** Gray specially compounded Natural Rubber.

**Temperature:** -40° to +160°F.

---

**SW319 FOOD SUCTION HOSE - EPDM TUBE**

- Premium quality, high temperature food hose designed for sanitary suction and hot air blower service in food applications.
- Dual helix design offers full vacuum capabilities.
- Lightweight construction offers excellent flexibility for handling ease.
- Manufactured on stainless steel mandrels for an ultra-smooth bacteria free tube that will not impart taste or odor.

**Tube:** Extruded white EPDM.

**Reinforcement:** Textile with dual wire helix.

**Cover:** Gray EPDM.

**Temperature:** -20° to +225°F.

---

**SS290 SANITARY SUCTION & DISCHARGE HOSE - CHLOROBUTYL TUBE**

- Premium quality sanitary suction and discharge hose designed to handle non-oily food products.
- Seamless extruded tube is highly resistant to C.I.P. solutions, microbes, and bacteria.

**Tube:** Extruded white Chlorobutyl.

**Reinforcement:** Textile with dual wire helix.

**Cover:** Gray EPDM.

**Temperature:** -40° to +225°F.

---

**WORKING WEIGHT**

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>Reinforcement</th>
<th>Working Pressure PSI</th>
<th>Weight LB/FT</th>
<th>Vacuum</th>
</tr>
</thead>
<tbody>
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<td>1 13/16”</td>
<td>4 plies</td>
<td>250</td>
<td>.75</td>
<td>Full</td>
</tr>
<tr>
<td>1 1/2”</td>
<td>2 1/8”</td>
<td>4 plies</td>
<td>250</td>
<td>1.05</td>
<td>Full</td>
</tr>
<tr>
<td>2”</td>
<td>2 5/16”</td>
<td>7”</td>
<td>250</td>
<td>1.27</td>
<td>Full</td>
</tr>
<tr>
<td>2 1/2”</td>
<td>3 1/16”</td>
<td>10”</td>
<td>250</td>
<td>1.75</td>
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</tr>
<tr>
<td>3”</td>
<td>3 3/4”</td>
<td>9”</td>
<td>250</td>
<td>2.25</td>
<td>Full</td>
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</table>

**Meets FDA, USDA, 3A, and PMO sanitary requirements.**

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**WORKING WEIGHT**

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>Bend Radius</th>
<th>Working Pressure PSI</th>
<th>Weight LB/FT</th>
<th>Vacuum</th>
</tr>
</thead>
<tbody>
<tr>
<td>1”</td>
<td>1 5/8”</td>
<td>4”</td>
<td>150</td>
<td>.75</td>
<td>Full</td>
</tr>
<tr>
<td>1 1/2”</td>
<td>2 1/8”</td>
<td>6”</td>
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<td>1.05</td>
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<tr>
<td>2”</td>
<td>2 5/16”</td>
<td>7”</td>
<td>150</td>
<td>1.27</td>
<td>Full</td>
</tr>
<tr>
<td>2 1/2”</td>
<td>3 1/16”</td>
<td>8”</td>
<td>150</td>
<td>1.75</td>
<td>Full</td>
</tr>
<tr>
<td>3”</td>
<td>3 3/4”</td>
<td>9”</td>
<td>150</td>
<td>2.25</td>
<td>Full</td>
</tr>
</tbody>
</table>

**Meets FDA, USDA, 3A, and PMO sanitary requirements.**

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**Meets FDA, USDA, 3A, and PMO sanitary requirements.**
**SW430 FOOD GRADE SUCTION HOSE - NITRILE TUBE**

- High grade, premium quality sanitary suction and discharge hose designed for a variety of food applications.
- Dual helix design provides full vacuum capabilities.
- Lightweight construction offers flexibility for handling ease.
- All purpose abrasion resistant cover provides excellent protection against oily foods, mild chemicals and ozone.
- Manufactured on stainless steel mandrels for an ultra-smooth bacteria free tube that will not impart taste or odor.

**Tube:** Extruded white Nitrile.

**Reinforcement:** Textile with dual wire helix.

**Cover:** Gray Nitrile.

**Temperature:** -40° to +180°F.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>Bend Radius</th>
<th>Working Pressure PSI</th>
<th>Weight LB/FT</th>
</tr>
</thead>
<tbody>
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<td>6”</td>
<td>150</td>
<td>1.01 Full</td>
</tr>
<tr>
<td>2”</td>
<td>2 3/8”</td>
<td>7”</td>
<td>150</td>
<td>1.41 Full</td>
</tr>
<tr>
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<td>3 3/16”</td>
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<td>150</td>
<td>1.89 Full</td>
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<td>9”</td>
<td>150</td>
<td>2.39 Full</td>
</tr>
<tr>
<td>4”</td>
<td>4 13/16”</td>
<td>12”</td>
<td>150</td>
<td>3.59 Full</td>
</tr>
</tbody>
</table>

Meets FDA, USDA, 3A, and PMO sanitary requirements.

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**SW431 FLOUR HOSE - 3/16” NATURAL RUBBER TUBE**

- Superior quality suction and discharge food hose designed for flour, sugar, and other dry abrasive food products where an FDA sanitary hose is required.
- Lightweight construction provides easy handling.
- Dual wire reinforcement provides full vacuum capabilities.
- Abrasion resistant cover resists ozone deterioration.
- Manufactured on stainless steel mandrels for an ultra-smooth bacteria free tube that will not impart taste or odor.

**Tube:** Extruded white Natural Rubber.

**Reinforcement:** Textile with dual wire helix.

**Cover:** Gray specially compounded Natural Rubber.

**Temperature:** -20° to +150°F.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>Bend Radius</th>
<th>Working Pressure PSI</th>
<th>Weight LB/FT</th>
</tr>
</thead>
<tbody>
<tr>
<td>4”</td>
<td>4 7/16”</td>
<td>14”</td>
<td>100</td>
<td>3.04 Full</td>
</tr>
<tr>
<td>5”</td>
<td>5 7/8”</td>
<td>20”</td>
<td>100</td>
<td>3.90 Full</td>
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</tbody>
</table>

Meets FDA, USDA, 3A, and PMO sanitary requirements.
SW630 TITANFLEX® FOOD SUCTION HOSE - WHITE CHLOROBUTYL TUBE

- Ultra-flexible food hose designed for milk, fruit juices, soft drinks, beer, wine, pharmaceuticals, cosmetics, and other non-oily food products.
- Smooth cover provides extreme flexibility while minimizing bacteria build-up often found in corrugated hoses.
- Cleans easily with hot water, 10% alkali bath, or open-end low pressure steam up to 15 psi.
- Manufactured on stainless steel mandrels for an ultra-smooth bacteria free tube that will not impart taste or odor.

Tube: Extruded white Chlorobutyl.
Reinforcement: Textile with dual wire helix.
Cover: Gray EPDM.
Temperature: -40° to +225°F.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>Bend Radius</th>
<th>Working Pressure PSI</th>
<th>Weight LB/FT</th>
<th>Vacuum</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 1/4&quot;</td>
<td>2 1/4&quot;</td>
<td>4 1/2&quot;</td>
<td>200</td>
<td>.98</td>
<td>Full</td>
</tr>
<tr>
<td>2&quot;</td>
<td>2 7/8&quot;</td>
<td>6&quot;</td>
<td>200</td>
<td>1.37</td>
<td>Full</td>
</tr>
<tr>
<td>2 1/2&quot;</td>
<td>3 3/4&quot;</td>
<td>7 1/2&quot;</td>
<td>200</td>
<td>1.77</td>
<td>Full</td>
</tr>
<tr>
<td>3&quot;</td>
<td>3 7/8&quot;</td>
<td>9&quot;</td>
<td>200</td>
<td>2.23</td>
<td>Full</td>
</tr>
<tr>
<td>4&quot;</td>
<td>4 7/8&quot;</td>
<td>12&quot;</td>
<td>200</td>
<td>3.18</td>
<td>Full</td>
</tr>
</tbody>
</table>

Meets FDA, USDA, 3A, and PMO sanitary requirements.

SWC430 CORRUGATED FOOD GRADE SUCTION - NITRILE TUBE

- Corrugated sanitary suction hose designed for oily foods and multi-purpose food transfer applications.
- Dual helix design provides full vacuum capabilities.
- Abrasion resistant cover provides excellent protection against oily foods, mild chemicals, and ozone attack.
- Manufactured on stainless steel mandrels for an ultra smooth bacteria free tube that will not impart taste or odor.

Tube: Extruded white Nitrile.
Reinforcement: Textile with dual wire helix.
Cover: Gray corrugated Nitrile.
Temperature: -20° to +225°F.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>Bend Radius</th>
<th>Working Pressure PSI</th>
<th>Weight LB/FT</th>
<th>Vacuum</th>
</tr>
</thead>
<tbody>
<tr>
<td>2&quot;</td>
<td>2 5/8&quot;</td>
<td>5&quot;</td>
<td>150</td>
<td>1.46</td>
<td>Full</td>
</tr>
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<td>3&quot;</td>
<td>3 11/16&quot;</td>
<td>6&quot;</td>
<td>150</td>
<td>2.39</td>
<td>Full</td>
</tr>
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<td>4 13/16&quot;</td>
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<td>5.86</td>
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</table>

Meets FDA, USDA, 3A, and PMO sanitary requirements.

SWC432 SANIFLEX CORRUGATED FOOD SUCTION - NITRILE TUBE

- Ultra-flexible food suction and discharge hose designed for oily foods and a variety of food transfer applications.
- Smooth enhanced corrugations allow easy sanitary cleaning.
- Nitrile cover is ozone, abrasion, chemical and oil resistant.
- Manufactured on stainless steel mandrels for an ultra-smooth bacteria free tube that will not impart taste or odor.

Tube: Extruded white Nitrile.
Reinforcement: Textile with dual wire helix.
Cover: Gray Nitrile.
Temperature: -40° to +225°F.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>Bend Radius</th>
<th>Working Pressure PSI</th>
<th>Weight LB/FT</th>
<th>Vacuum</th>
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<tbody>
<tr>
<td>2&quot;</td>
<td>2 1/4&quot;</td>
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Meets FDA, USDA, and 3A sanitary requirements.

Smooth enhanced corrugated cover allows easy sanitary cleaning.
## Marine / Industrial

<table>
<thead>
<tr>
<th>Product</th>
<th>Page</th>
<th>Size</th>
<th>W.P.</th>
<th>Tube</th>
<th>Cover</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SS269</td>
<td>39</td>
<td>1” - 12¼”</td>
<td>100 - 200</td>
<td>Nitrile</td>
<td>Nitrile</td>
<td>Softwall marine exhaust hose designed for transferring wet exhaust on marine engines.</td>
</tr>
<tr>
<td>SW369</td>
<td>40</td>
<td>1¼” - 6¾”</td>
<td>100 - 200</td>
<td>Nitrile</td>
<td>Nitrile</td>
<td>High temperature hardwall marine exhaust hose and fuel fill connection.</td>
</tr>
<tr>
<td>SW469</td>
<td>40</td>
<td>½” - 3”</td>
<td>35 - 50</td>
<td>Nitrile</td>
<td>Nitrile</td>
<td>Hardwall marine fuel fill and vent hose.</td>
</tr>
</tbody>
</table>
SS269 SOFTWALL MARINE EXHAUST HOSE

- Heavy duty softwall marine exhaust hose for use as a flexible connection to transfer wet exhaust on marine engines.
- Heat resistant tube handles high temperatures found in marine engine compartments.
- Durable heat, ozone, and abrasion resistant cover.

Tube: Extruded specially compounded Nitrile.
Reinforcement: Textile.
Cover: Specially compounded Nitrile.
Temperature: -40° to +200°F.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>REINFORCEMENT</th>
<th>WORKING PRESSURE PSI</th>
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</table>


www.titanindustries.com
800-242-HOSE (4673) • Fax 562.869.05.92
SW369 HARDWALL MARINE EXHAUST HOSE

- Ultra-flexible, lightweight hardwall marine exhaust hose specifically designed to be a high temperature, wet exhaust and fuel fill flexible connection.
- Dual helix wire allows for tight bends without kinking.
- Specially formulated cover is heat and ozone resistant.

Tube: Extruded Nitrile.
Reinforcement: Textile with dual wire helix.
Cover: Specially compounded Nitrile.
Temperature: -40° to +200°F.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>Bend Radius</th>
<th>Working Pressure PSI</th>
<th>Weight Lb/FT</th>
<th>Vacuum</th>
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SW469 HARDWALL MARINE FUEL FILL HOSE

- Flexible, hardwall marine hose for use in fuel fill and vent applications on marine fuel systems.
- Specifically designed to handle high temperatures.

Tube: Extruded Nitrile.
Reinforcement: Textile with dual wire helix.
Cover: Specially compounded Nitrile.
Temperature: -40° to +200°F.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>Bend Radius</th>
<th>Working Pressure PSI</th>
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**ES937 ELEPHANT TRUNK HOSE - ¼” SBR TUBE**

- Designed exclusively for gravity flow and low pressure discharge of cement and other abrasive materials.
- Lightweight construction provides excellent flexibility for handling ease.
- Premium quality tube and cover resists cuts and abrasions.

**Tube:** ¼” SBR.
**Reinforcement:** High strength tire cord.
**Cover:** SBR.
**Temperature:** -40° to +180°F.

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**EW336 EXACTA PIPE MATERIAL SUCTION HOSE - ¼” NATURAL RUBBER TUBE**

- All-weather general purpose suction and discharge hose designed to handle highly abrasive material.
- Natural rubber tube provides excellent rebound, durability, and abrasion resistance.

**Tube:** ¼” Natural Rubber.
**Reinforcement:** High strength tire cord with steel wire helix.
**Cover:** SBR.
**Temperature:** -40° to +150°F.

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EW360 HOT AIR BLOWER HOSE

- High temperature, ultra-durable hose for transferring hot air.
- Superior grade tube will withstand temperatures up to 300°F.
- Heavy duty EPDM cover is heat and ozone resistant.

**Tube:** EPDM.

**Reinforcement:** High strength tire cord with steel wire helix.

**Cover:** Heat resistant EPDM.

**Temperature:** -40° to +300°F.

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EWC334 CORRUGATED MATERIAL HANDLING - ⅛” NATURAL RUBBER TUBE

- All-weather corrugated material suction hose designed to handle abrasive materials.
- Natural rubber tube provides excellent rebound, durability, and abrasion resistance.
- All weather cover resists cuts, gouging and ozone attack.

**Tube:** ⅛” Natural Rubber.

**Reinforcement:** High strength textile with dual wire helix.

**Cover:** Corrugated SBR.

**Temperature:** -40° to +150°F.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>Bend Radius</th>
<th>Working Pressure PSI</th>
<th>Weight LB/FT</th>
<th>Vacuum</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot;</td>
<td>6 7/8&quot;</td>
<td>29&quot;</td>
<td>135</td>
<td>5.60</td>
<td>Full</td>
</tr>
<tr>
<td>6 7/8&quot;</td>
<td>7&quot;</td>
<td>32&quot;</td>
<td>125</td>
<td>6.40</td>
<td>Full</td>
</tr>
<tr>
<td>8&quot;</td>
<td>8 7/8&quot;</td>
<td>38&quot;</td>
<td>100</td>
<td>8.00</td>
<td>Full</td>
</tr>
<tr>
<td>8 7/8&quot;</td>
<td>9&quot;</td>
<td>42&quot;</td>
<td>95</td>
<td>8.80</td>
<td>Full</td>
</tr>
<tr>
<td>10&quot;</td>
<td>11&quot;</td>
<td>48&quot;</td>
<td>85</td>
<td>11.60</td>
<td>Full</td>
</tr>
<tr>
<td>10 7/8&quot;</td>
<td>11 5/8&quot;</td>
<td>52&quot;</td>
<td>75</td>
<td>12.40</td>
<td>Full</td>
</tr>
<tr>
<td>12&quot;</td>
<td>13&quot;</td>
<td>58&quot;</td>
<td>65</td>
<td>16.50</td>
<td>Full</td>
</tr>
<tr>
<td>12 7/8&quot;</td>
<td>13 1/8&quot;</td>
<td>62&quot;</td>
<td>65</td>
<td>17.50</td>
<td>Full</td>
</tr>
</tbody>
</table>

Custom Made Hose Product

Refer to SW360 (page 48) for additional sizes and working pressures. Corrugated and 4 ply constructions available upon request.
**EWC777 CORRUGATED MATERIAL HANDLING HOSE - 5/16” NATURAL RUBBER TUBE**

- Corrugated vacuum hose for transferring highly abrasive slurries.
- Designed for on the job engineering of specified lengths. Hose can be cut, coupled, and installed in minutes at the job site with our split-lok flange coupling system.

**Tube:** 5/16" Natural Rubber.
**Reinforcement:** High strength tire cord with steel wire helix.
**Cover:** Corrugated SBR.
**Temperature:** -40° to +150°F.

**Working Weight**

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>Bend Radius</th>
<th>Working Pressure PSI</th>
<th>Weight LB/FT</th>
<th>Vacuum</th>
</tr>
</thead>
<tbody>
<tr>
<td>4&quot;</td>
<td>51/2&quot;</td>
<td>19&quot;</td>
<td>150</td>
<td>5.00</td>
<td>Full</td>
</tr>
<tr>
<td>5&quot;</td>
<td>61/2&quot;</td>
<td>24&quot;</td>
<td>150</td>
<td>7.00</td>
<td>Full</td>
</tr>
<tr>
<td>6&quot;</td>
<td>71/2&quot;</td>
<td>29&quot;</td>
<td>150</td>
<td>9.00</td>
<td>Full</td>
</tr>
<tr>
<td>8&quot;</td>
<td>91/2&quot;</td>
<td>38&quot;</td>
<td>150</td>
<td>12.10</td>
<td>Full</td>
</tr>
<tr>
<td>10&quot;</td>
<td>111/2&quot;</td>
<td>48&quot;</td>
<td>150</td>
<td>16.00</td>
<td>Full</td>
</tr>
<tr>
<td>12&quot;</td>
<td>131/4&quot;</td>
<td>58&quot;</td>
<td>150</td>
<td>23.00</td>
<td>Full</td>
</tr>
<tr>
<td>14&quot;</td>
<td>151/2&quot;</td>
<td>68&quot;</td>
<td>150</td>
<td>27.00</td>
<td>Full</td>
</tr>
<tr>
<td>16&quot;</td>
<td>171/4&quot;</td>
<td>78&quot;</td>
<td>125</td>
<td>31.10</td>
<td>Full</td>
</tr>
<tr>
<td>18&quot;</td>
<td>20&quot;</td>
<td>88&quot;</td>
<td>125</td>
<td>42.00</td>
<td>Full</td>
</tr>
<tr>
<td>20&quot;</td>
<td>22&quot;</td>
<td>100&quot;</td>
<td>100</td>
<td>48.00</td>
<td>Full</td>
</tr>
<tr>
<td>22&quot;</td>
<td>243/16&quot;</td>
<td>120&quot;</td>
<td>100</td>
<td>65.00</td>
<td>Full</td>
</tr>
<tr>
<td>24&quot;</td>
<td>261/8&quot;</td>
<td>130&quot;</td>
<td>100</td>
<td>69.00</td>
<td>Full</td>
</tr>
</tbody>
</table>

**EWC789 CORRUGATED VACUUM TRUCK HOSE - 1/4” SBR TUBE**

- Corrugated vacuum hose designed for debris suction and mobile vacuum trucks in cleaning storm drains and sewers.
- Dual wire helix provides excellent vacuum capabilities.

**Tube:** 1/4" SBR.
**Reinforcement:** High strength textile with dual wire helix.
**Cover:** Corrugated SBR.
**Temperature:** -40° to +150°F.

**Working Weight**

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>Bend Radius</th>
<th>Working Pressure PSI</th>
<th>Weight LB/FT</th>
<th>Vacuum</th>
</tr>
</thead>
<tbody>
<tr>
<td>4&quot;</td>
<td>53/4&quot;</td>
<td>18&quot;</td>
<td>150</td>
<td>5.00</td>
<td>Full</td>
</tr>
<tr>
<td>6&quot;</td>
<td>73/4&quot;</td>
<td>28&quot;</td>
<td>150</td>
<td>7.20</td>
<td>Full</td>
</tr>
<tr>
<td>8&quot;</td>
<td>93/8&quot;</td>
<td>36&quot;</td>
<td>100</td>
<td>9.50</td>
<td>Full</td>
</tr>
<tr>
<td>10&quot;</td>
<td>113/2&quot;</td>
<td>42&quot;</td>
<td>100</td>
<td>11.50</td>
<td>Full</td>
</tr>
</tbody>
</table>
**EWC888 INDUSTRIAL VACUUM HOSE - ¼” NATURAL RUBBER TUBE**

- Industrial material handling hose for vacuum service and low pressure applications.
- Lightweight corrugated design provides superior flexibility for handling ease.
- Dual wire reinforcement provides full vacuum capabilities.

**Tube:** ¼” Natural Rubber.

**Reinforcement:** High strength tire cord with dual wire helix.

**Cover:** Corrugated SBR.

**Temperature:** -40° to +150°F.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>Bend Radius</th>
<th>Working Pressure PSI</th>
<th>Weight LB/FT</th>
<th>Vacuum</th>
</tr>
</thead>
<tbody>
<tr>
<td>5”</td>
<td>5 ¼”</td>
<td>20”</td>
<td>75</td>
<td>4.00</td>
<td>Full</td>
</tr>
<tr>
<td>6”</td>
<td>6 ¼”</td>
<td>24”</td>
<td>65</td>
<td>4.60</td>
<td>Full</td>
</tr>
<tr>
<td>8”</td>
<td>8 7/8”</td>
<td>36”</td>
<td>50</td>
<td>6.80</td>
<td>Full</td>
</tr>
<tr>
<td>10”</td>
<td>10 7/8”</td>
<td>48”</td>
<td>40</td>
<td>10.30</td>
<td>Full</td>
</tr>
</tbody>
</table>

**SS135 DRY CEMENT DISCHARGE HOSE - ¼” SBR TUBE**

- Low pressure material transfer hose designed for discharge service of dry cement and powdered abrasive materials.
- Lightweight construction provides superior flexibility without sacrificing quality.
- Premium grade cover resists cuts, scuffs, and ozone attack.

**Tube:** ¼” Extruded SBR.

**Reinforcement:** Textile.

**Cover:** SBR.

**Temperature:** -40° to +180°F.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>Reinforcement</th>
<th>Working Pressure PSI</th>
<th>Weight LB/FT</th>
</tr>
</thead>
<tbody>
<tr>
<td>4”</td>
<td>4 ½”</td>
<td>2 plies</td>
<td>65</td>
<td>1.49</td>
</tr>
<tr>
<td>4 ½”</td>
<td>5”</td>
<td>2 plies</td>
<td>65</td>
<td>1.67</td>
</tr>
<tr>
<td>5”</td>
<td>5 ½”</td>
<td>2 plies</td>
<td>65</td>
<td>1.84</td>
</tr>
<tr>
<td>6”</td>
<td>6 ½”</td>
<td>2 plies</td>
<td>65</td>
<td>2.24</td>
</tr>
</tbody>
</table>
SS141 OXYGEN CHARGING HOSE

- Specially designed for steel mill lancing and scarfing applications.
- Premium grade Neoprene cover offers protection against sparks and abrasion.

**Tube:** Extruded Neoprene.
**Reinforcement:** Textile.
**Cover:** Green Neoprene.
**Temperature:** -40° to +200°F.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>Reinforcement</th>
<th>Working Pressure PSI</th>
<th>Weight LB/FT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1&quot;</td>
<td>1 11/16&quot;</td>
<td>2 plies</td>
<td>500</td>
<td>.84</td>
</tr>
<tr>
<td>1 1/4&quot;</td>
<td>1 5/8&quot;</td>
<td>2 plies</td>
<td>500</td>
<td>1.01</td>
</tr>
<tr>
<td>1 1/2&quot;</td>
<td>2 1/8&quot;</td>
<td>4 plies</td>
<td>500</td>
<td>1.13</td>
</tr>
<tr>
<td>2&quot;</td>
<td>2 1/4&quot;</td>
<td>4 plies</td>
<td>500</td>
<td>1.56</td>
</tr>
<tr>
<td>3&quot;</td>
<td>4&quot;</td>
<td>6 plies</td>
<td>500</td>
<td>3.10</td>
</tr>
<tr>
<td>4&quot;</td>
<td>5&quot;</td>
<td>6 plies</td>
<td>500</td>
<td>4.00</td>
</tr>
</tbody>
</table>

Hoses are cleaned and capped prior to shipping.

SS147 DRY MATERIAL DISCHARGE HOSE - 3/16" SBR TUBE

- Handles dry abrasive materials and for dry bulk transfer.
- Lightweight construction provides excellent flexibility for handling ease.
- High grade cover resists cuts, gouges and scuffs.

**Tube:** 3/16" Extruded SBR.
**Reinforcement:** Textile.
**Cover:** SBR.
**Temperature:** -40° to +180°F.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>Reinforcement</th>
<th>Working Pressure PSI</th>
<th>Weight LB/FT</th>
</tr>
</thead>
<tbody>
<tr>
<td>4&quot;</td>
<td>4 11/16&quot;</td>
<td>2 plies</td>
<td>60</td>
<td>1.96</td>
</tr>
</tbody>
</table>

Static conductive tube.

SS236 MATERIAL HANDLING HOSE - 3/8" NATURAL RUBBER TUBE

- Rugged, ultra-durable, slurry discharge hose designed to handle highly abrasive wet and dry materials.
- Durable cover resists cuts, scuffs, gouges, and ozone attack.

**Tube:** 3/8" Extruded Natural Rubber.
**Reinforcement:** Textile.
**Cover:** SBR.
**Temperature:** -40° to +150°F.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>Reinforcement</th>
<th>Working Pressure PSI</th>
<th>Weight LB/FT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 1/2&quot;</td>
<td>2 11/16&quot;</td>
<td>2 plies</td>
<td>150</td>
<td>1.21</td>
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<tr>
<td>2&quot;</td>
<td>2 1/8&quot;</td>
<td>2 plies</td>
<td>150</td>
<td>1.56</td>
</tr>
<tr>
<td>2 1/2&quot;</td>
<td>3 1/8&quot;</td>
<td>2 plies</td>
<td>150</td>
<td>1.90</td>
</tr>
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<td>3&quot;</td>
<td>3 1/4&quot;</td>
<td>2 plies</td>
<td>150</td>
<td>2.20</td>
</tr>
<tr>
<td>4&quot;</td>
<td>4 1/8&quot;</td>
<td>2 plies</td>
<td>100</td>
<td>2.85</td>
</tr>
<tr>
<td>4 1/2&quot;</td>
<td>5 1/8&quot;</td>
<td>2 plies</td>
<td>100</td>
<td>3.23</td>
</tr>
<tr>
<td>5&quot;</td>
<td>5 1/4&quot;</td>
<td>2 plies</td>
<td>100</td>
<td>3.54</td>
</tr>
<tr>
<td>6&quot;</td>
<td>6 1/4&quot;</td>
<td>2 plies</td>
<td>85</td>
<td>4.15</td>
</tr>
</tbody>
</table>
SS247 HEAVY DUTY DRY CEMENT HOSE - 1/4” SBR TUBE

- Specially designed to handle dry abrasive materials such as sand or pebble lime.
- Lightweight construction provides excellent flexibility for handling ease.
- High grade cover resists cuts, gouges and scuffs.

Tube: 1/4” Extruded SBR.
Reinforcement: Textile.
Cover: SBR.
Temperature: -40° to +180°F.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>Reinforcement</th>
<th>Working Pressure PSI</th>
<th>Weight LB/FT</th>
</tr>
</thead>
<tbody>
<tr>
<td>4”</td>
<td>4⅛”</td>
<td>2 plies</td>
<td>75</td>
<td>2.50</td>
</tr>
<tr>
<td>4⅝”</td>
<td>5⅛”</td>
<td>2 plies</td>
<td>75</td>
<td>2.79</td>
</tr>
<tr>
<td>5”</td>
<td>5⅛”</td>
<td>2 plies</td>
<td>75</td>
<td>3.11</td>
</tr>
<tr>
<td>6”</td>
<td>6⅛”</td>
<td>2 plies</td>
<td>70</td>
<td>3.69</td>
</tr>
<tr>
<td>8”</td>
<td>8⅛”</td>
<td>2 plies</td>
<td>60</td>
<td>4.88</td>
</tr>
</tbody>
</table>

SW336 MATERIAL HANDLING HOSE - 1/4” NATURAL RUBBER TUBE

- Durable, all-weather material suction and discharge hose designed to handle highly abrasive materials.
- Dual wire reinforcement provides full vacuum capabilities.

Tube: 1/4” Extruded Natural Rubber.
Reinforcement: Textile with dual wire helix.
Cover: SBR.
Temperature: -40° to +150°F.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>Bend Radius</th>
<th>Working Pressure PSI</th>
<th>Weight LB/FT</th>
<th>Vacuum</th>
</tr>
</thead>
<tbody>
<tr>
<td>3”</td>
<td>3⅛”</td>
<td>12”</td>
<td>125</td>
<td>2.69</td>
<td>Full</td>
</tr>
<tr>
<td>4”</td>
<td>5”</td>
<td>18”</td>
<td>125</td>
<td>3.94</td>
<td>Full</td>
</tr>
<tr>
<td>5”</td>
<td>6”</td>
<td>25”</td>
<td>110</td>
<td>5.25</td>
<td>Full</td>
</tr>
<tr>
<td>6”</td>
<td>7⅛”</td>
<td>30”</td>
<td>110</td>
<td>7.09</td>
<td>Full</td>
</tr>
</tbody>
</table>

SW360 HOT AIR BLOWER HOSE

- High temperature, ultra-durable hose for transferring hot air between the tractor and trailer during product unloading.
- Superior grade tube will withstand temperatures up to 350°F.
- Heavy duty cover is heat and ozone resistant.

Tube: Extruded heat resistant EPDM.
Reinforcement: Textile with dual wire helix.
Cover: Heat resistant EPDM.
Temperature: -40° to +350°F.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>Bend Radius</th>
<th>Working Pressure PSI</th>
<th>Weight LB/FT</th>
<th>Vacuum</th>
</tr>
</thead>
<tbody>
<tr>
<td>2”</td>
<td>2⅝”</td>
<td>6”</td>
<td>200</td>
<td>.97</td>
<td>Full</td>
</tr>
<tr>
<td>3”</td>
<td>3⅛”</td>
<td>12”</td>
<td>200</td>
<td>1.75</td>
<td>Full</td>
</tr>
<tr>
<td>4”</td>
<td>4⅛”</td>
<td>16”</td>
<td>125</td>
<td>2.41</td>
<td>Full</td>
</tr>
<tr>
<td>6”</td>
<td>6⅜”</td>
<td>24”</td>
<td>100</td>
<td>4.93</td>
<td>Full</td>
</tr>
</tbody>
</table>
SW409 SAND RECOVERY HOSE - NATURAL RUBBER TUBE

- Heavy duty material transfer hose designed exclusively for severe abrasion applications that require suction and discharge service.
- Robust tube provides protection against abrasive material.
- All weather cover resists scuffs, cuts, gouging and ozone attack.

Tube: Extruded 3/16” Natural Rubber.
Reinforcement: Textile with dual wire helix.
Cover: SBR.
Temperature: -40° to +150°F.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>BEND RADIUS</th>
<th>WORKING PRESSURE PSI</th>
<th>WEIGHT LB/FT</th>
<th>VACUUM</th>
</tr>
</thead>
<tbody>
<tr>
<td>2”</td>
<td>2 1/4”</td>
<td>6”</td>
<td>200</td>
<td>1.49</td>
<td>Full</td>
</tr>
<tr>
<td>3”</td>
<td>3 3/4”</td>
<td>12”</td>
<td>175</td>
<td>2.32</td>
<td>Full</td>
</tr>
<tr>
<td>4”</td>
<td>4 1/4”</td>
<td>16”</td>
<td>150</td>
<td>3.08</td>
<td>Full</td>
</tr>
<tr>
<td>5”</td>
<td>5 13/16”</td>
<td>20”</td>
<td>100</td>
<td>4.25</td>
<td>Full</td>
</tr>
<tr>
<td>6”</td>
<td>6 13/16”</td>
<td>24”</td>
<td>100</td>
<td>5.28</td>
<td>Full</td>
</tr>
</tbody>
</table>

Static conductive tube.
<table>
<thead>
<tr>
<th>Specification</th>
<th>Part No.</th>
<th>Size</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIL-PRF-11588G Type III &amp; IV</td>
<td>SS258</td>
<td>1 – 4”</td>
<td>Hose assemblies for liquid petroleum fuel dispensing (tan cover).</td>
</tr>
<tr>
<td>MIL-PRF-11588G Type III &amp; IV</td>
<td>SS278</td>
<td>1 – 4”</td>
<td>Hose assemblies for liquid petroleum fuel dispensing (black cover).</td>
</tr>
<tr>
<td>MIL-PRF-370J Type A</td>
<td>SS170</td>
<td>1 – 6”</td>
<td>Gas discharge hose w/static wire for aviation, auto, turbine, &amp; diesel fuels (tan or black cover).</td>
</tr>
<tr>
<td>MIL-PRF-370J Type B</td>
<td>SW370</td>
<td>1 – 6”</td>
<td>Hardwall gasoline suction hose (tan or black cover).</td>
</tr>
<tr>
<td>USDA Fire Suction &amp; Discharge</td>
<td>SW384</td>
<td>1, 1½” &amp; 2½”</td>
<td>Forestry suction hose.</td>
</tr>
<tr>
<td>A-A-59566 Grade B Class 1</td>
<td>SW322</td>
<td>1 – 6”</td>
<td>Water suction hose (potable &amp; non-potable).</td>
</tr>
<tr>
<td>A-A-59566 Grade B Class 2</td>
<td>SW323</td>
<td>1 – 6”</td>
<td>Water suction hose (potable &amp; non-potable).</td>
</tr>
<tr>
<td>A-A-59566 Grade A Class 1</td>
<td>SW326</td>
<td>1 – 6”</td>
<td>Water suction hose.</td>
</tr>
<tr>
<td>A-A-59566 Grade A Class 2</td>
<td>SW328</td>
<td>1 – 6”</td>
<td>Water suction hose.</td>
</tr>
<tr>
<td>MIL-DTL-17505F</td>
<td>EW775</td>
<td>6 – 8”</td>
<td>Oil and gas suction and discharge hose.</td>
</tr>
<tr>
<td>MIL-DTL-27516F</td>
<td>SW376</td>
<td>1 – 6”</td>
<td>Jet fuel and gasoline suction hose.</td>
</tr>
<tr>
<td>MIL-DTL-6615F</td>
<td>SS166</td>
<td>1½ – 4”</td>
<td>Fuel and non-potable water discharge hose. Type II, no static wire or static conductive tube.</td>
</tr>
<tr>
<td>MIL-DTL-6615F</td>
<td>SS167</td>
<td>1¼ – 4”</td>
<td>Fuel and non-potable water discharge hose. Type I with static wire and static conductive tube.</td>
</tr>
<tr>
<td>MIL-DTL-20176G Type I &amp; II</td>
<td>SW346</td>
<td>2½ – 4”</td>
<td>Sewage and oily waste hose (non-collapsible).</td>
</tr>
<tr>
<td>MIL-H-17902F (SH) Type CC</td>
<td>SS217</td>
<td>2½”</td>
<td>Aircraft fueling on-board ships (collapsible).</td>
</tr>
<tr>
<td>MIL-H-17902F (SH) Type NC</td>
<td>SW391</td>
<td>1½”</td>
<td>Aircraft fueling on-board ships (non-collapsible).</td>
</tr>
<tr>
<td>A-A-59567 Grade 1 Class 1</td>
<td>SS266</td>
<td>1¼ – 4”</td>
<td>Non-potable water discharge hose.</td>
</tr>
<tr>
<td>A-A-59567 Grade 1 Class 2</td>
<td>SS267</td>
<td>1 – 4”</td>
<td>Potable water discharge hose.</td>
</tr>
<tr>
<td>A-A-59567 Grade 3 Class 2</td>
<td>SS268</td>
<td>1 – 4”</td>
<td>Potable water discharge hose.</td>
</tr>
<tr>
<td>Product</td>
<td>Page</td>
<td>Size</td>
<td>W.P.</td>
</tr>
<tr>
<td>---------</td>
<td>------</td>
<td>----------</td>
<td>------</td>
</tr>
<tr>
<td>EW160</td>
<td>53</td>
<td>4&quot; - 12&quot;</td>
<td>100</td>
</tr>
<tr>
<td>EW353</td>
<td>59</td>
<td>10&quot; - 12&quot;</td>
<td>65 - 75</td>
</tr>
<tr>
<td>EW499</td>
<td>53</td>
<td>6&quot; - 12&quot;</td>
<td>200</td>
</tr>
<tr>
<td>(X)SP100</td>
<td>54</td>
<td>2&quot; - 6&quot;</td>
<td>N/A</td>
</tr>
<tr>
<td>SP204</td>
<td>54</td>
<td>2&quot; - 6&quot;</td>
<td>75 - 100</td>
</tr>
<tr>
<td>SP353</td>
<td>54</td>
<td>2&quot; - 6&quot;</td>
<td>150</td>
</tr>
<tr>
<td>SS106</td>
<td>55</td>
<td>1½&quot; - 4&quot;</td>
<td>350</td>
</tr>
<tr>
<td>SS107</td>
<td>55</td>
<td>1¼&quot; - 6&quot;</td>
<td>150 - 250</td>
</tr>
<tr>
<td>SS110</td>
<td>55</td>
<td>1¼&quot; - 6&quot;</td>
<td>400 - 500</td>
</tr>
<tr>
<td>SS131</td>
<td>56</td>
<td>1½&quot; - 4&quot;</td>
<td>800 - 1000</td>
</tr>
<tr>
<td>SS145</td>
<td>56</td>
<td>1½&quot; - 6&quot;</td>
<td>300</td>
</tr>
<tr>
<td>SS160</td>
<td>56</td>
<td>3&quot; - 6&quot;</td>
<td>300</td>
</tr>
<tr>
<td>SS242</td>
<td>57</td>
<td>2&quot; - 6&quot;</td>
<td>100 - 200</td>
</tr>
<tr>
<td>SS254</td>
<td>57</td>
<td>6&quot; - 8&quot;</td>
<td>150</td>
</tr>
<tr>
<td>SW303</td>
<td>57</td>
<td>1¼&quot; - 4&quot;</td>
<td>150 - 200</td>
</tr>
<tr>
<td>SW309</td>
<td>58</td>
<td>1&quot; - 6&quot;</td>
<td>100 - 150</td>
</tr>
<tr>
<td>SW327</td>
<td>58</td>
<td>1½&quot; - 4&quot;</td>
<td>150</td>
</tr>
<tr>
<td>SW333</td>
<td>58</td>
<td>2&quot; - 6&quot;</td>
<td>250</td>
</tr>
<tr>
<td>SW353</td>
<td>59</td>
<td>5&quot; - 8&quot;</td>
<td>150 - 200</td>
</tr>
<tr>
<td>SW355</td>
<td>59</td>
<td>3&quot; - 6&quot;</td>
<td>300</td>
</tr>
<tr>
<td>SW387</td>
<td>60</td>
<td>1½&quot; - 4&quot;</td>
<td>150</td>
</tr>
<tr>
<td>SWC316(R)</td>
<td>60</td>
<td>1&quot; - 6&quot;</td>
<td>125 - 150</td>
</tr>
<tr>
<td>SWC509</td>
<td>61</td>
<td>1&quot; - 6&quot;</td>
<td>125 - 250</td>
</tr>
<tr>
<td>SWC609(R)</td>
<td>61</td>
<td>1½&quot; - 6&quot;</td>
<td>125 - 250</td>
</tr>
</tbody>
</table>
**EW160 MUD SUCTION HOSE**

- Flexible connection between slush pump and mud pit to absorb vibration during rotary well drilling.
- Wire helix design provides full vacuum capabilities.
- Cover is oil, cut, scuff and ozone resistant.

**Tube:** Specially compounded Nitrile.
**Reinforcement:** High strength tire cord with steel wire helix.
**Cover:** Oil resistant synthetic rubber.
**Temperature:** -40° to +180°F.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>Bend Radius</th>
<th>Working Pressure PSI</th>
<th>Weight LB/FT</th>
<th>Vacuum</th>
</tr>
</thead>
<tbody>
<tr>
<td>4”</td>
<td>5”</td>
<td>24”</td>
<td>100</td>
<td>4.70</td>
<td>Full</td>
</tr>
<tr>
<td>6”</td>
<td>7 1/4”</td>
<td>36”</td>
<td>100</td>
<td>8.50</td>
<td>Full</td>
</tr>
<tr>
<td>8”</td>
<td>9 1/4”</td>
<td>48”</td>
<td>100</td>
<td>12.80</td>
<td>Full</td>
</tr>
<tr>
<td>10”</td>
<td>11 1/4”</td>
<td>60”</td>
<td>100</td>
<td>19.50</td>
<td>Full</td>
</tr>
<tr>
<td>12”</td>
<td>13 1/4”</td>
<td>72”</td>
<td>100</td>
<td>24.80</td>
<td>Full</td>
</tr>
</tbody>
</table>

**EW499 HOT TAR & ASPHALT HOSE - FKM (VITON®) TUBE**

- Ultra-high temperature hose designed for hot tar, hot oil and unrefined petroleum products.
- Premium grade tube provides heat resistance up to 350°F.
- Dual helix wire provides full vacuum capabilities.
- Specially formulated cover is heat and ozone resistant.

**Tube:** FKM (Viton® or equivalent).
**Reinforcement:** High strength tire cord with steel wire helix.
**Cover:** Oil resistant synthetic rubber.
**Temperature:** -40° to +350°F. (continuous service).

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>Bend Radius</th>
<th>Working Pressure PSI</th>
<th>Weight LB/FT</th>
<th>Vacuum</th>
</tr>
</thead>
<tbody>
<tr>
<td>6”</td>
<td>7 1/4”</td>
<td>42”</td>
<td>200</td>
<td>7.50</td>
<td>Full</td>
</tr>
<tr>
<td>8”</td>
<td>9 1/4”</td>
<td>54”</td>
<td>200</td>
<td>15.25</td>
<td>Full</td>
</tr>
<tr>
<td>10”</td>
<td>12 1/4”</td>
<td>66”</td>
<td>200</td>
<td>20.75</td>
<td>Full</td>
</tr>
<tr>
<td>12”</td>
<td>14 1/4”</td>
<td>78”</td>
<td>200</td>
<td>26.25</td>
<td>Full</td>
</tr>
</tbody>
</table>

**Custom Made Hose Product**

Higher working pressures available upon request.

Caution: Do not use above 350°F or for other services.

Refer to SW327 (page 58) and SW387 (page 60) for additional hot tar & asphalt hoses.
SP100 PVC SLINKY BANDING SLEEVE

- Rugged PVC banding sleeve developed to coil between each outer PVC rod to create a uniform banding area for coupling.
- Can be used as a spring guard or kink preventor behind the coupling.
- Colors: Orange, Red, Green, Gray, Gold, & Sand Matte.
- Use with Titan’s Light-N-Bright (SP series) hose products.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>WEIGHT LB/FT.</th>
<th>LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>2”</td>
<td>.19</td>
<td>8 Turns</td>
</tr>
<tr>
<td>3”</td>
<td>.33</td>
<td>10 Turns</td>
</tr>
<tr>
<td>4”</td>
<td>.46</td>
<td>10 Turns</td>
</tr>
<tr>
<td>6”</td>
<td>1.02</td>
<td>16 Turns</td>
</tr>
</tbody>
</table>

XSP100 PVC HOSE ABRASION PROTECTOR

- PVC hose abrasion protectors help extend the life of your hose in highly abrasive areas.
- Coils over length of hose to protect against scuffs and abrasions.

SP204 LIGHT-N-BRIGHT PLUS PETROLEUM DROP HOSE

- Lightweight, ultra-flexible, petroleum drop hose for gravity flow or suction of gasoline and petroleum based products.
- Highly resistant to crushing, kinks and abrasion.
- Internal static wire assures no static build-up.
- Integrated external spiral PVC helix provides abrasion resistance and durability.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>BEND RADIUS</th>
<th>WORKING PRESSURE PSI</th>
<th>WEIGHT LB/FT</th>
<th>VACUUM</th>
</tr>
</thead>
<tbody>
<tr>
<td>2”</td>
<td>3/4”</td>
<td>4”</td>
<td>100</td>
<td>1.12</td>
<td>Full</td>
</tr>
<tr>
<td>3”</td>
<td>5/8”</td>
<td>5”</td>
<td>100</td>
<td>1.57</td>
<td>Full</td>
</tr>
<tr>
<td>4”</td>
<td>7/8”</td>
<td>6”</td>
<td>100</td>
<td>2.06</td>
<td>Full</td>
</tr>
<tr>
<td>6”</td>
<td>1”</td>
<td>8”</td>
<td>100</td>
<td>2.99</td>
<td>Full</td>
</tr>
</tbody>
</table>

SP353 LIGHT-N-BRIGHT TANK TRUCK HOSE

- Lightweight, flexible, and easy to handle petroleum suction and discharge hose with static wire designed for both drop and pump off service.
- Highly resistant to crushing, kinks and abrasion.
- Internal static wire assures no static build-up.
- Integrated external spiral PVC helix provides abrasion resistance and durability.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>BEND RADIUS</th>
<th>WORKING PRESSURE PSI</th>
<th>WEIGHT LB/FT</th>
<th>VACUUM</th>
</tr>
</thead>
<tbody>
<tr>
<td>2”</td>
<td>3”</td>
<td>6”</td>
<td>150</td>
<td>1.25</td>
<td>Full</td>
</tr>
<tr>
<td>3”</td>
<td>4”</td>
<td>8”</td>
<td>150</td>
<td>1.78</td>
<td>Full</td>
</tr>
<tr>
<td>4”</td>
<td>5”</td>
<td>10”</td>
<td>150</td>
<td>2.32</td>
<td>Full</td>
</tr>
<tr>
<td>6”</td>
<td>7”</td>
<td>24”</td>
<td>150</td>
<td>3.49</td>
<td>Full</td>
</tr>
</tbody>
</table>

Suitable for 60% aromatics.

SP100 PVC Slinky Banding Sleeves recommended for banding.

Suitable for 60% aromatics.

SP100 PVC Slinky Banding Sleeves recommended for banding.

www.titanindustries.com
800-242-HOSE (4673) • Fax 562.869.05.92
SS106 LPG HOSE WITH STATIC WIRE

• LPG discharge hose designed for bulk unloading.
• Heavy duty construction provides excellent working pressures.
• Pin pricked cover allows for permeation.
• Abrasion resistant cover provides oil and ozone protection.
• Meets all requirements for ISO 2928-1986 (E).

Tube: Extruded enhanced Nitrile.
Reinforcement: Textile with internal static wire.
Cover: Specially compounded Nitrile.
Temperature: -40° to +122°F.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>REINFORCEMENT</th>
<th>WORKING PRESSURE PSI</th>
<th>WEIGHT LB/FT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1¼&quot;</td>
<td>1½&quot;</td>
<td>4 plies</td>
<td>350</td>
<td>.77</td>
</tr>
<tr>
<td>1½&quot;</td>
<td>2&quot;</td>
<td>4 plies</td>
<td>350</td>
<td>.91</td>
</tr>
<tr>
<td>2&quot;</td>
<td>2½&quot;</td>
<td>4 plies</td>
<td>350</td>
<td>1.20</td>
</tr>
<tr>
<td>2½&quot;</td>
<td>3&quot;</td>
<td>4 plies</td>
<td>350</td>
<td>1.45</td>
</tr>
<tr>
<td>3&quot;</td>
<td>3½&quot;</td>
<td>4 plies</td>
<td>350</td>
<td>1.74</td>
</tr>
<tr>
<td>4&quot;</td>
<td>4½&quot;</td>
<td>6 plies</td>
<td>350</td>
<td>3.16</td>
</tr>
</tbody>
</table>

SS107 LIGHTWEIGHT FUEL DISCHARGE HOSE

• Lightweight, easy to handle fuel discharge hose designed for fuel connector service and delivery of petroleum products.
• Abrasion resistant cover provides oil and ozone protection.

Tube: Extruded Nitrile.
Reinforcement: Textile.
Cover: Specially compounded Nitrile.
Temperature: -40° to +180°F.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>REINFORCEMENT</th>
<th>WORKING PRESSURE PSI</th>
<th>WEIGHT LB/FT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1¼&quot;</td>
<td>1½&quot;</td>
<td>2 plies</td>
<td>250</td>
<td>.46</td>
</tr>
<tr>
<td>1½&quot;</td>
<td>2&quot;</td>
<td>2 plies</td>
<td>250</td>
<td>.52</td>
</tr>
<tr>
<td>2&quot;</td>
<td>3½&quot;</td>
<td>2 plies</td>
<td>200</td>
<td>.67</td>
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<tr>
<td>3&quot;</td>
<td>4½&quot;</td>
<td>2 plies</td>
<td>150</td>
<td>1.14</td>
</tr>
<tr>
<td>4&quot;</td>
<td>6½&quot;</td>
<td>2 plies</td>
<td>150</td>
<td>2.96</td>
</tr>
</tbody>
</table>

SS110 MULTI-PURPOSE DISCHARGE HOSE WITH STATIC WIRE

• High pressure multi-purpose discharge hose excellent for air, water, mild oils, and chemicals.

Tube: Extruded specially compounded Nitrile.
Reinforcement: Textile with internal static wire.
Cover: SBR.
Temperature: -40° to +180°F.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>REINFORCEMENT</th>
<th>WORKING PRESSURE PSI</th>
<th>WEIGHT LB/FT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1⅛&quot;</td>
<td>1¾&quot;</td>
<td>4 plies</td>
<td>500</td>
<td>.79</td>
</tr>
<tr>
<td>1½&quot;</td>
<td>2⅛&quot;</td>
<td>4 plies</td>
<td>500</td>
<td>.96</td>
</tr>
<tr>
<td>2&quot;</td>
<td>2⅝&quot;</td>
<td>4 plies</td>
<td>500</td>
<td>1.25</td>
</tr>
<tr>
<td>2⅝&quot;</td>
<td>3⅝&quot;</td>
<td>6 plies</td>
<td>500</td>
<td>1.96</td>
</tr>
<tr>
<td>3&quot;</td>
<td>3⅛&quot;</td>
<td>6 plies</td>
<td>500</td>
<td>2.27</td>
</tr>
<tr>
<td>4&quot;</td>
<td>5½&quot;</td>
<td>6 plies</td>
<td>500</td>
<td>3.34</td>
</tr>
<tr>
<td>6&quot;</td>
<td>7½&quot;</td>
<td>8 plies</td>
<td>400</td>
<td>5.67</td>
</tr>
</tbody>
</table>
SS131 HEAVY DUTY MULTI-PURPOSE DISCHARGE HOSE

- Heavy duty, ultra-high pressure discharge hose designed for multi-purpose use and a variety of tough applications.
- Specially compounded tube is oil and heat resistant.
- All purpose cover is abrasion and ozone resistant.

Tube: Extruded specially compounded Nitrile.
Reinforcement: Textile.
Cover: Abrasion resistant rubber.
Temperature: -40° to +180°F.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>REINFORCEMENT</th>
<th>WORKING PRESSURE PSI</th>
<th>WEIGHT LB/FT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 1/2”</td>
<td>2 3/8”</td>
<td>6 plies</td>
<td>1000</td>
<td>1.53</td>
</tr>
<tr>
<td>2”</td>
<td>3”</td>
<td>6 plies</td>
<td>1000</td>
<td>2.01</td>
</tr>
<tr>
<td>3”</td>
<td>4 1/4”</td>
<td>6 plies</td>
<td>1000</td>
<td>3.01</td>
</tr>
<tr>
<td>4”</td>
<td>5 3/16”</td>
<td>6 plies</td>
<td>800</td>
<td>4.51</td>
</tr>
</tbody>
</table>

SS145 HEAVY DUTY OIL AND GAS HOSE

- Heavy duty discharge hose designed for oil, gasoline, and high pressure water applications.
- Cover is oil, abrasion and chemical resistant.

Tube: Extruded Nitrile.
Reinforcement: Textile with internal static wire.
Cover: Specially compounded Nitrile.
Temperature: -40° to +180°F.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>REINFORCEMENT</th>
<th>WORKING PRESSURE PSI</th>
<th>WEIGHT LB/FT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 1/2”</td>
<td>2 3/8”</td>
<td>4 plies</td>
<td>300</td>
<td>1.34</td>
</tr>
<tr>
<td>2”</td>
<td>2 3/4”</td>
<td>4 plies</td>
<td>300</td>
<td>1.69</td>
</tr>
<tr>
<td>3”</td>
<td>3 3/4”</td>
<td>4 plies</td>
<td>300</td>
<td>2.34</td>
</tr>
<tr>
<td>4”</td>
<td>4 1/8”</td>
<td>4 plies</td>
<td>300</td>
<td>3.11</td>
</tr>
<tr>
<td>6”</td>
<td>7 5/16”</td>
<td>6 plies</td>
<td>800</td>
<td>5.64</td>
</tr>
</tbody>
</table>

SS160 MUD DISCHARGE HOSE

- Lightweight mud discharge hose designed for petroleum waste, drilling, mud and high pressure water.
- Heavy duty, abrasion resistant cover.

Tube: Extruded specially compounded Nitrile.
Reinforcement: Textile.
Cover: SBR.
Temperature: -40° to +180°F.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>REINFORCEMENT</th>
<th>WORKING PRESSURE PSI</th>
<th>WEIGHT LB/FT</th>
</tr>
</thead>
<tbody>
<tr>
<td>3”</td>
<td>3 3/4”</td>
<td>4 plies</td>
<td>300</td>
<td>2.30</td>
</tr>
<tr>
<td>4”</td>
<td>4 1/8”</td>
<td>4 plies</td>
<td>300</td>
<td>3.06</td>
</tr>
<tr>
<td>5”</td>
<td>5 3/4”</td>
<td>4 plies</td>
<td>300</td>
<td>3.75</td>
</tr>
<tr>
<td>6”</td>
<td>7 5/16”</td>
<td>6 plies</td>
<td>300</td>
<td>5.54</td>
</tr>
</tbody>
</table>
SW303 PETROLEUM SUCTION HOSE

- Premium grade petroleum suction and discharge hose suitable for 60% aromatics.
- Excellent tank wagon hose where flexibility is a must.
- Dual wire helix construction provides full vacuum capabilities.
- Cover is oil, abrasion and ozone resistant.

Tube: Extruded Nitrile.
Reinforcement: Textile with dual wire helix.
Cover: Specially compounded Nitrile.
Temperature: -40° to +180°F.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>BEND RADIUS</th>
<th>WORKING PRESSURE PSI</th>
<th>WEIGHT LB/FT</th>
<th>VACUUM</th>
</tr>
</thead>
<tbody>
<tr>
<td>1¼&quot;</td>
<td>1½&quot;</td>
<td>4&quot;</td>
<td>200</td>
<td>.51</td>
<td>Full</td>
</tr>
<tr>
<td>1½&quot;</td>
<td>2&quot;</td>
<td>5&quot;</td>
<td>200</td>
<td>.64</td>
<td>Full</td>
</tr>
<tr>
<td>2&quot;</td>
<td>2½&quot;</td>
<td>6&quot;</td>
<td>200</td>
<td>.95</td>
<td>Full</td>
</tr>
<tr>
<td>2½&quot;</td>
<td>3&quot;</td>
<td>8&quot;</td>
<td>150</td>
<td>1.32</td>
<td>Full</td>
</tr>
<tr>
<td>3&quot;</td>
<td>3½&quot;</td>
<td>12&quot;</td>
<td>150</td>
<td>1.68</td>
<td>Full</td>
</tr>
<tr>
<td>4&quot;</td>
<td>4½&quot;</td>
<td>18&quot;</td>
<td>150</td>
<td>2.63</td>
<td>Full</td>
</tr>
</tbody>
</table>

SS242 PETROLEUM DISCHARGE HOSE

- Petroleum discharge hose designed for on-shore service of diesel fuels and other petroleum products.
- Durable all-weather cover is oil and ozone resistant.

Tube: Extruded Nitrile.
Reinforcement: Textile with internal static wire.
Cover: Specially compounded Nitrile.
Temperature: -40° to +180°F.

SS243 with tan cover available upon request.

SS242 PETROLEUM DISCHARGE HOSE

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>REINFORCEMENT</th>
<th>WORKING PRESSURE PSI</th>
<th>WEIGHT LB/FT</th>
</tr>
</thead>
<tbody>
<tr>
<td>2&quot;</td>
<td>2½&quot;</td>
<td>2 plies</td>
<td>200</td>
<td>1.21</td>
</tr>
<tr>
<td>3&quot;</td>
<td>3½&quot;</td>
<td>2 plies</td>
<td>150</td>
<td>1.70</td>
</tr>
<tr>
<td>4&quot;</td>
<td>4½&quot;</td>
<td>2 plies</td>
<td>125</td>
<td>2.26</td>
</tr>
<tr>
<td>6&quot;</td>
<td>6½&quot;</td>
<td>2 plies</td>
<td>100</td>
<td>3.30</td>
</tr>
</tbody>
</table>

SS254 OIL AND GAS HOSE

- Lightweight oil and gasoline discharge hose used for transferring petroleum products.
- Rugged cover is oil, abrasion and chemical resistant.

Tube: Extruded Nitrile.
Reinforcement: Textile.
Cover: Specially compounded Nitrile.
Temperature: -40° to +180°F.

SS254 with tan cover available upon request.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>REINFORCEMENT</th>
<th>WORKING PRESSURE PSI</th>
<th>WEIGHT LB/FT</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot;</td>
<td>6½&quot;</td>
<td>4 plies</td>
<td>150</td>
<td>4.10</td>
</tr>
<tr>
<td>8&quot;</td>
<td>8½&quot;</td>
<td>4 plies</td>
<td>150</td>
<td>5.52</td>
</tr>
</tbody>
</table>
**SW333 PETROLEUM SUCTION HOSE**

- Lightweight suction and discharge hose for transferring petroleum products.
- Dual wire helix construction provides full vacuum capabilities.
- Tube and cover are ozone, abrasion, and oil resistant.

**Tube:** Extruded specially compounded Nitrile.

**Reinforcement:** Textile with wire helix.

**Cover:** Specially compounded Nitrile.

**Temperature:** -40° to +180°F.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>Bend Radius</th>
<th>Working Pressure PSI</th>
<th>Weight LB/FT</th>
<th>Vacuum</th>
</tr>
</thead>
<tbody>
<tr>
<td>1&quot;</td>
<td>17/32&quot;</td>
<td>4&quot;</td>
<td>150</td>
<td>.42</td>
<td>Full</td>
</tr>
<tr>
<td>11/4&quot;</td>
<td>15/32&quot;</td>
<td>5&quot;</td>
<td>150</td>
<td>.50</td>
<td>Full</td>
</tr>
<tr>
<td>11/2&quot;</td>
<td>19/32&quot;</td>
<td>6&quot;</td>
<td>150</td>
<td>.63</td>
<td>Full</td>
</tr>
<tr>
<td>2&quot;</td>
<td>2½&quot;</td>
<td>8&quot;</td>
<td>150</td>
<td>.98</td>
<td>Full</td>
</tr>
<tr>
<td>23/4&quot;</td>
<td>3&quot;</td>
<td>10&quot;</td>
<td>150</td>
<td>1.24</td>
<td>Full</td>
</tr>
<tr>
<td>3&quot;</td>
<td>31/2&quot;</td>
<td>12&quot;</td>
<td>150</td>
<td>1.70</td>
<td>Full</td>
</tr>
<tr>
<td>4&quot;</td>
<td>4½&quot;</td>
<td>18&quot;</td>
<td>150</td>
<td>2.45</td>
<td>Full</td>
</tr>
<tr>
<td>5&quot;</td>
<td>5⅛&quot;</td>
<td>25&quot;</td>
<td>100</td>
<td>3.61</td>
<td>Full</td>
</tr>
<tr>
<td>6&quot;</td>
<td>6½&quot;</td>
<td>30&quot;</td>
<td>100</td>
<td>4.78</td>
<td>Full</td>
</tr>
</tbody>
</table>

**SW309 PETROVAC PETROLEUM SUCTION HOSE**

- Lightweight suction and discharge hose for transferring petroleum products.
- Dual wire helix construction provides full vacuum capabilities.
- Tube and cover are ozone, abrasion, and oil resistant.

**Tube:** Extruded specially compounded Nitrile.

**Reinforcement:** Textile with dual wire helix.

**Cover:** Specially compounded Nitrile.

**Temperature:** -40° to +180°F.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>Bend Radius</th>
<th>Working Pressure PSI</th>
<th>Weight LB/FT</th>
<th>Vacuum</th>
</tr>
</thead>
<tbody>
<tr>
<td>2&quot;</td>
<td>2⅞&quot;</td>
<td>8&quot;</td>
<td>150</td>
<td>1.22</td>
<td>Full</td>
</tr>
<tr>
<td>3&quot;</td>
<td>3⅞&quot;</td>
<td>12&quot;</td>
<td>250</td>
<td>2.29</td>
<td>Full</td>
</tr>
<tr>
<td>4&quot;</td>
<td>4⅞&quot;</td>
<td>18&quot;</td>
<td>250</td>
<td>3.28</td>
<td>Full</td>
</tr>
<tr>
<td>6&quot;</td>
<td>6⅞&quot;</td>
<td>30&quot;</td>
<td>250</td>
<td>5.69</td>
<td>Full</td>
</tr>
</tbody>
</table>

**Caution:** Do not use above 350°F. or for other services.

Refer to SW387 (page 60) for intermittent service applications.

**SW327 HOT TAR & ASPHALT HOSE - VAMAC® TUBE**

- Ultra-high temperature hose designed for hot tar, hot oil and unrefined petroleum products.
- Premium grade tube and cover provide heat and abrasion resistance.

**Tube:** Extruded heat resistant Vamac®.

**Reinforcement:** Textile with wire helix.

**Cover:** Extruded heat resistant Vamac®.

**Temperature:** -40° to +350°F. (Continuous service).

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>Bend Radius</th>
<th>Working Pressure PSI</th>
<th>Weight LB/FT</th>
<th>Vacuum</th>
</tr>
</thead>
<tbody>
<tr>
<td>11/2&quot;</td>
<td>2¼&quot;</td>
<td>6&quot;</td>
<td>150</td>
<td>.92</td>
<td>Full</td>
</tr>
<tr>
<td>2&quot;</td>
<td>2⅞&quot;</td>
<td>8&quot;</td>
<td>150</td>
<td>1.36</td>
<td>Full</td>
</tr>
<tr>
<td>23/4&quot;</td>
<td>3¾&quot;</td>
<td>10&quot;</td>
<td>150</td>
<td>1.87</td>
<td>Full</td>
</tr>
<tr>
<td>3&quot;</td>
<td>3⅞&quot;</td>
<td>12&quot;</td>
<td>150</td>
<td>2.50</td>
<td>Full</td>
</tr>
<tr>
<td>4&quot;</td>
<td>4¾&quot;</td>
<td>16&quot;</td>
<td>150</td>
<td>3.57</td>
<td>Full</td>
</tr>
</tbody>
</table>

**Caution:** Not for dock hose service.

**SW333 PETROLEUM SUCTION HOSE**

- High pressure petroleum suction and discharge hose designed for bottom loading of tank trucks and rail cars.
- Cover is oil, abrasion and ozone resistant.

**Tube:** Extruded Nitrile.

**Reinforcement:** Textile with wire helix.

**Cover:** Specially compounded Nitrile.

**Temperature:** -40° to +180°F.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>Bend Radius</th>
<th>Working Pressure PSI</th>
<th>Weight LB/FT</th>
<th>Vacuum</th>
</tr>
</thead>
<tbody>
<tr>
<td>2&quot;</td>
<td>2⅞&quot;</td>
<td>8&quot;</td>
<td>250</td>
<td>1.22</td>
<td>Full</td>
</tr>
<tr>
<td>3&quot;</td>
<td>3⅞&quot;</td>
<td>12&quot;</td>
<td>250</td>
<td>2.29</td>
<td>Full</td>
</tr>
<tr>
<td>4&quot;</td>
<td>4⅞&quot;</td>
<td>18&quot;</td>
<td>250</td>
<td>3.28</td>
<td>Full</td>
</tr>
<tr>
<td>6&quot;</td>
<td>6⅞&quot;</td>
<td>30&quot;</td>
<td>250</td>
<td>5.69</td>
<td>Full</td>
</tr>
</tbody>
</table>

**Caution:** Do not use above 350°F. or for other services.

Refer to SW387 (page 60) for intermittent service applications.

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Vamac® is a registered tradename of DuPont

www.titanindustries.com

800-242-HOSE (4673) • Fax 562.869.05.92

58
**SW353 HEAVY DUTY TANK TRUCK HOSE**

- Heavy duty petroleum suction and discharge hose designed for tank truck service.
- Suitable for 50% aromatics.

**Tube:** Extruded Nitrile.

**Reinforcement:** Textile with dual wire helix.

**Cover:** Specially compounded Nitrile.

**Temperature:** -40° to +180°F.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>Bend Radius</th>
<th>Working Pressure PSI</th>
<th>Weight LB/FT</th>
<th>Vacuum</th>
</tr>
</thead>
<tbody>
<tr>
<td>1¼&quot;</td>
<td>1½&quot;</td>
<td>5&quot;</td>
<td>200</td>
<td>.64</td>
<td>Full</td>
</tr>
<tr>
<td>1½&quot;</td>
<td>2½&quot;</td>
<td>6&quot;</td>
<td>200</td>
<td>.78</td>
<td>Full</td>
</tr>
<tr>
<td>2&quot;</td>
<td>2½&quot;</td>
<td>8&quot;</td>
<td>200</td>
<td>1.07</td>
<td>Full</td>
</tr>
<tr>
<td>2½&quot;</td>
<td>3½&quot;</td>
<td>10&quot;</td>
<td>200</td>
<td>1.49</td>
<td>Full</td>
</tr>
<tr>
<td>3&quot;</td>
<td>3½&quot;</td>
<td>12&quot;</td>
<td>200</td>
<td>2.07</td>
<td>Full</td>
</tr>
<tr>
<td>4&quot;</td>
<td>4½&quot;</td>
<td>18&quot;</td>
<td>200</td>
<td>2.86</td>
<td>Full</td>
</tr>
<tr>
<td>5&quot;</td>
<td>5½&quot;</td>
<td>25&quot;</td>
<td>150</td>
<td>3.70</td>
<td>Full</td>
</tr>
<tr>
<td>6&quot;</td>
<td>6½&quot;</td>
<td>30&quot;</td>
<td>150</td>
<td>4.83</td>
<td>Full</td>
</tr>
<tr>
<td>8&quot;</td>
<td>9½&quot;</td>
<td>42&quot;</td>
<td>150</td>
<td>12.08</td>
<td>Full</td>
</tr>
</tbody>
</table>

**SW355 PETROLEUM / OIL SERVICE HOSE - 300 PSI**

- High pressure petroleum suction and discharge hose suitable for 60% aromatics.
- Lightweight construction provides excellent flexibility.
- Heavy duty cover protects against oils, chemicals, cuts, abrasions, and ozone attack.

**Tube:** Extruded Nitrile.

**Reinforcement:** Textile with dual wire helix.

**Cover:** Specially compounded Nitrile.

**Temperature:** -40° to +180°F.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>Bend Radius</th>
<th>Working Pressure PSI</th>
<th>Weight LB/FT</th>
<th>Vacuum</th>
</tr>
</thead>
<tbody>
<tr>
<td>3&quot;</td>
<td>4&quot;</td>
<td>12&quot;</td>
<td>300</td>
<td>2.84</td>
<td>Full</td>
</tr>
<tr>
<td>4&quot;</td>
<td>5&quot;</td>
<td>16&quot;</td>
<td>300</td>
<td>3.84</td>
<td>Full</td>
</tr>
<tr>
<td>6&quot;</td>
<td>7&quot;</td>
<td>36&quot;</td>
<td>300</td>
<td>7.38</td>
<td>Full</td>
</tr>
</tbody>
</table>
**SW387 HOT TAR & ASPHALT HOSE - NITRILE TUBE**

- High temperature hose designed for hot tar, hot oil and unrefined petroleum products.
- Premium grade tube handles high temperatures up to 350°F at intermittent service.
- Dual helix wire provides full vacuum capabilities.
- Specially formulated cover is heat and ozone resistant.

**Tube:** Extruded heat resistant Nitrile.<br>**Reinforcement:** Textile with dual wire helix.<br>**Cover:** Nitrile.<br>**Temperature:** -40° to +350°F. (Intermittent service only).

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>Bend Radius</th>
<th>Working Pressure PSI</th>
<th>Working Weight LB/FT</th>
<th>Vacuum</th>
</tr>
</thead>
<tbody>
<tr>
<td>1½”</td>
<td>2/3”</td>
<td>6”</td>
<td>150</td>
<td>.95</td>
<td>Full</td>
</tr>
<tr>
<td>2”</td>
<td>2”</td>
<td>8”</td>
<td>150</td>
<td>1.39</td>
<td>Full</td>
</tr>
<tr>
<td>2½”</td>
<td>3/8”</td>
<td>10”</td>
<td>150</td>
<td>1.82</td>
<td>Full</td>
</tr>
<tr>
<td>3”</td>
<td>3/8”</td>
<td>12”</td>
<td>150</td>
<td>2.38</td>
<td>Full</td>
</tr>
<tr>
<td>4”</td>
<td>4 3/16”</td>
<td>18”</td>
<td>150</td>
<td>3.66</td>
<td>Full</td>
</tr>
</tbody>
</table>

**SWC316 PETROMAX PETROLEUM SUCTION - BLACK COVER**

- Extremely flexible petroleum suction & discharge hose designed for tank truck service.
- Deep corrugated construction provides extreme flexibility and a tight bend radius without kinking or crushing.
- High grade cover is ozone, abrasion and oil resistant.

**Tube:** Extruded Nitrile.<br>**Reinforcement:** Textile with dual wire helix.<br>**Cover:** Corrugated specially compounded Nitrile (Black or Red).<br>**Temperature:** -40° to +180°F.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>Bend Radius</th>
<th>Working Pressure PSI</th>
<th>Working Weight LB/FT</th>
<th>Vacuum</th>
</tr>
</thead>
<tbody>
<tr>
<td>1”</td>
<td>1 9/16”</td>
<td>3”</td>
<td>150</td>
<td>.61</td>
<td>Full</td>
</tr>
<tr>
<td>1½”</td>
<td>2 1/16”</td>
<td>4”</td>
<td>150</td>
<td>.85</td>
<td>Full</td>
</tr>
<tr>
<td>2”</td>
<td>2 9/16”</td>
<td>5”</td>
<td>150</td>
<td>1.18</td>
<td>Full</td>
</tr>
<tr>
<td>2½”</td>
<td>3 1/16”</td>
<td>6”</td>
<td>150</td>
<td>1.39</td>
<td>Full</td>
</tr>
<tr>
<td>3”</td>
<td>3 19/32”</td>
<td>9”</td>
<td>150</td>
<td>1.84</td>
<td>Full</td>
</tr>
<tr>
<td>4”</td>
<td>4 13/32”</td>
<td>12”</td>
<td>150</td>
<td>2.60</td>
<td>Full</td>
</tr>
<tr>
<td>6”</td>
<td>6 3/4”</td>
<td>18”</td>
<td>125</td>
<td>4.79</td>
<td>Full</td>
</tr>
</tbody>
</table>

**SWC316R PETROMAX PETROLEUM SUCTION - RED COVER**

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>Bend Radius</th>
<th>Working Pressure PSI</th>
<th>Working Weight LB/FT</th>
<th>Vacuum</th>
</tr>
</thead>
<tbody>
<tr>
<td>1”</td>
<td>1 9/16”</td>
<td>3”</td>
<td>150</td>
<td>.61</td>
<td>Full</td>
</tr>
<tr>
<td>1½”</td>
<td>2 1/16”</td>
<td>4”</td>
<td>150</td>
<td>.85</td>
<td>Full</td>
</tr>
<tr>
<td>2”</td>
<td>2 9/16”</td>
<td>5”</td>
<td>150</td>
<td>1.18</td>
<td>Full</td>
</tr>
<tr>
<td>2½”</td>
<td>3 1/16”</td>
<td>6”</td>
<td>150</td>
<td>1.39</td>
<td>Full</td>
</tr>
<tr>
<td>3”</td>
<td>3 19/32”</td>
<td>9”</td>
<td>150</td>
<td>1.84</td>
<td>Full</td>
</tr>
<tr>
<td>4”</td>
<td>4 13/32”</td>
<td>12”</td>
<td>150</td>
<td>2.60</td>
<td>Full</td>
</tr>
<tr>
<td>6”</td>
<td>6 3/4”</td>
<td>18”</td>
<td>125</td>
<td>4.79</td>
<td>Full</td>
</tr>
</tbody>
</table>
**SWC509 TITANFLEX® ULTRAVAC OIL FIELD VACUUM HOSE**

- Ultra-flexible oil field vacuum hose ideal for transferring diluted industrial chemicals, petroleum waste, sludge, slurry, and sediments.
- Lightweight corrugated design is easy to lift, drag, and maneuver.

**Tube:** Extruded specially compounded Nitrile.

**Reinforcement:** Textile with dual wire helix.

**Cover:** Corrugated SBR.

**Temperature:** -40° to +160°F.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>Bend Radius</th>
<th>Working Pressure PSI</th>
<th>Weight LB/FT</th>
<th>Vacuum</th>
</tr>
</thead>
<tbody>
<tr>
<td>1&quot;</td>
<td>1 1/2&quot;</td>
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<td>.48</td>
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</tr>
<tr>
<td>1 1/2&quot;</td>
<td>2 1/4&quot;</td>
<td>1 1/2&quot;</td>
<td>250</td>
<td>.72</td>
<td>Full</td>
</tr>
<tr>
<td>2&quot;</td>
<td>2 1/4&quot;</td>
<td>2&quot;</td>
<td>250</td>
<td>.93</td>
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<td>3 1/4&quot;</td>
<td>2 1/2&quot;</td>
<td>200</td>
<td>1.40</td>
<td>Full</td>
</tr>
<tr>
<td>3&quot;</td>
<td>3 1/4&quot;</td>
<td>3&quot;</td>
<td>200</td>
<td>1.66</td>
<td>Full</td>
</tr>
<tr>
<td>4&quot;</td>
<td>4 1/4&quot;</td>
<td>4&quot;</td>
<td>150</td>
<td>2.23</td>
<td>Full</td>
</tr>
<tr>
<td>6&quot;</td>
<td>6 1/4&quot;</td>
<td>10&quot;</td>
<td>125</td>
<td>4.02</td>
<td>Full</td>
</tr>
</tbody>
</table>

Not recommended for refined petroleum products with over 35% aromatics.

---

**SWC609 TITANFLEX® PETROLEUM SUCTION HOSE - BLACK COVER**

- Corrugated petroleum suction and discharge hose designed for commercial gasoline, diesel and fuel oils.
- Extreme flexibility and superior bend radius.
- Unique non-kinking design increases service life.

**Tube:** Extruded Nitrile.

**Reinforcement:** Textile with dual wire helix.

**Cover:** Specially compounded Nitrile (Black or Red).

**Temperature:** -40° to +180°F.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>Bend Radius</th>
<th>Working Pressure PSI</th>
<th>Weight LB/FT</th>
<th>Vacuum</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 1/2&quot;</td>
<td>2 1/16&quot;</td>
<td>1 1/2&quot;</td>
<td>250</td>
<td>.72</td>
<td>Full</td>
</tr>
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**SWC609R TITANFLEX® PETROLEUM SUCTION - RED CVR**

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<td>Full</td>
</tr>
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*SWC® is a registered trademark of Titan Industries.*

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www.titanindustries.com
800-242-HOSE (4673) • Fax 562.869.05.92
<table>
<thead>
<tr>
<th>Product</th>
<th>Page</th>
<th>Size</th>
<th>W.P.</th>
<th>Tube</th>
<th>Cover</th>
<th>Description</th>
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<td>63</td>
<td>8” - 18”</td>
<td>100 - 175</td>
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<td>SBR</td>
<td>Heavy duty water discharge hose</td>
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<tr>
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<td>64</td>
<td>8” - 18”</td>
<td>50 - 100</td>
<td>SBR</td>
<td>SBR</td>
<td>Lightweight water discharge hose.</td>
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<tr>
<td>EW300</td>
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<td>6¾” - 18”</td>
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<td>SBR</td>
<td>2 ply water suction and discharge hose.</td>
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<td>SBR</td>
<td>Heavy duty water discharge hose.</td>
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<td>1½” - 8”</td>
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<td>SBR</td>
<td>Economical lightweight water discharge hose.</td>
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<tr>
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<tr>
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<td>EPDM</td>
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<tr>
<td>SW300</td>
<td>66</td>
<td>6” - 8”</td>
<td>100</td>
<td>SBR</td>
<td>SBR</td>
<td>Lightweight, 2 ply water suction hose.</td>
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<tr>
<td>SW500</td>
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<td>EPDM</td>
<td>EPDM</td>
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SS104 HEAVY DUTY WATER DISCHARGE HOSE

- Heavy duty 4 ply water discharge hose designed to handle tough construction and industrial applications.
- Abrasion resistant cover protects against cuts and abrasions.

**Tube:** SBR.
**Reinforcement:** Textile.
**Cover:** SBR.
**Temperature:** -40° to +180°F.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>REINFORCEMENT</th>
<th>WORKING PRESSURE PSI</th>
<th>WEIGHT LB/FT</th>
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<td>2.35</td>
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<tr>
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ES104 HEAVY DUTY WATER DISCHARGE HOSE

Custom Made Hose Product

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<td>100</td>
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SS111 HIGH PRESSURE WATER JETTING HOSE

- High pressure, heavy duty water jetting hose designed for stripping layers from hard surfaces and washdown applications.
- Premium grade cover offers protection against the outdoor elements.

**Tube:** Extruded SBR.
**Reinforcement:** Textile.
**Cover:** SBR.
**Temperature:** -40° to +180°F.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>REINFORCEMENT</th>
<th>WORKING PRESSURE PSI</th>
<th>WEIGHT LB/FT</th>
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<td>3 13/32&quot;</td>
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<td>4&quot;</td>
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<td>500</td>
<td>4.94</td>
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</table>
SS122 LIGHTWEIGHT WATER JETTING HOSE

- Lightweight water jetting hose for washdown and offshore jetting applications.
- Premium grade cover protects against outdoor elements.

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<tr>
<th>I.D.</th>
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<th>REINFORCEMENT</th>
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SS115 LIGHTWEIGHT WATER DISCHARGE HOSE

- Economically designed water discharge hose for construction and light duty industrial applications.
- Durable cover offers protection against outdoor elements.

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<th>O.D.</th>
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ES115 LIGHTWEIGHT WATER DISCHARGE HOSE

Custom Made Hose Product

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SS122 LIGHTWEIGHT WATER JETTING HOSE

- Lightweight water jetting hose for washdown and offshore jetting applications.
- Premium grade cover protects against outdoor elements.

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SS155 MEDIUM DUTY WATER DISCHARGE HOSE

- Medium duty water discharge hose designed for demanding water applications.

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<tr>
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<td>Cover:</td>
<td>SBR.</td>
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<td>Temperature:</td>
<td>-40° to +180°F</td>
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<table>
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<tr>
<th>I.D.</th>
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<th>REINFORCEMENT</th>
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SS715 SEA LION EPDM WATER DISCHARGE HOSE

- Medium duty water discharge hose for construction, mining, drilling, industrial and agricultural applications.
- Effectively conveys water, mild chemicals, slurries, brine, detergents, mild acids, alkalies and glycols.
- Premium grade EPDM tube and cover offers protection against abrasion, ozone and mild chemicals.

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<td>Cover:</td>
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<th>WEIGHT LB/FT</th>
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</tbody>
</table>
**SW300 LIGHTWEIGHT WATER SUCTION**

- Lightweight water suction hose designed for construction and industrial washdown applications.
- Wire reinforcement provides full vacuum capabilities without sacrificing flexibility.
- Abrasion resistant cover protects against ozone attack.

**Tube:** SBR.  
**Reinforcement:** Textile with wire helix.  
**Cover:** SBR.  
**Temperature:** -40° to +180°F.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>Bend Radius</th>
<th>Working Pressure PSI</th>
<th>Weight LB/FT</th>
<th>Vacuum</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot;</td>
<td>6½&quot;</td>
<td>30&quot;</td>
<td>100</td>
<td>3.64</td>
<td>Full</td>
</tr>
<tr>
<td>8&quot;</td>
<td>9¼&quot;</td>
<td>48&quot;</td>
<td>100</td>
<td>10.88</td>
<td>Full</td>
</tr>
</tbody>
</table>

**EW300 LIGHTWEIGHT WATER SUCTION - 2 PLY**

Custom Made Hose Product

- Lightweight 2 ply water suction hose for construction and industrial washdown applications.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>Bend Radius</th>
<th>Working Pressure PSI</th>
<th>Weight LB/FT</th>
<th>Vacuum</th>
</tr>
</thead>
<tbody>
<tr>
<td>6½&quot;</td>
<td>7½&quot;</td>
<td>40&quot;</td>
<td>125</td>
<td>5.90</td>
<td>Full</td>
</tr>
<tr>
<td>7&quot;</td>
<td>7¾&quot;</td>
<td>42&quot;</td>
<td>125</td>
<td>7.00</td>
<td>Full</td>
</tr>
<tr>
<td>8&quot;</td>
<td>8½&quot;</td>
<td>48&quot;</td>
<td>125</td>
<td>8.40</td>
<td>Full</td>
</tr>
<tr>
<td>8½&quot;</td>
<td>9½&quot;</td>
<td>52&quot;</td>
<td>125</td>
<td>10.60</td>
<td>Full</td>
</tr>
<tr>
<td>10&quot;</td>
<td>10½&quot;</td>
<td>60&quot;</td>
<td>125</td>
<td>13.00</td>
<td>Full</td>
</tr>
<tr>
<td>10¼&quot;</td>
<td>11¼&quot;</td>
<td>65&quot;</td>
<td>125</td>
<td>17.20</td>
<td>Full</td>
</tr>
<tr>
<td>12&quot;</td>
<td>13¼&quot;</td>
<td>72&quot;</td>
<td>125</td>
<td>18.00</td>
<td>Full</td>
</tr>
<tr>
<td>12½&quot;</td>
<td>13½&quot;</td>
<td>77&quot;</td>
<td>125</td>
<td>22.00</td>
<td>Full</td>
</tr>
<tr>
<td>14&quot;</td>
<td>15½&quot;</td>
<td>84&quot;</td>
<td>125</td>
<td>24.00</td>
<td>Full</td>
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<tr>
<td>16&quot;</td>
<td>17½&quot;</td>
<td>96&quot;</td>
<td>125</td>
<td>27.30</td>
<td>Full</td>
</tr>
<tr>
<td>18&quot;</td>
<td>19½&quot;</td>
<td>108&quot;</td>
<td>125</td>
<td>30.60</td>
<td>Full</td>
</tr>
</tbody>
</table>

**EW301 HEAVY DUTY WATER SUCTION - 4 PLY**

Custom Made Hose Product

- Heavy duty 4 ply water suction hose for mining, construction, and other industrial applications.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>Bend Radius</th>
<th>Working Pressure PSI</th>
<th>Weight LB/FT</th>
<th>Vacuum</th>
</tr>
</thead>
<tbody>
<tr>
<td>8&quot;</td>
<td>9½&quot;</td>
<td>48&quot;</td>
<td>150</td>
<td>10.90</td>
<td>Full</td>
</tr>
<tr>
<td>8½&quot;</td>
<td>9¾&quot;</td>
<td>56&quot;</td>
<td>150</td>
<td>11.70</td>
<td>Full</td>
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<td>14.50</td>
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<tr>
<td>10¼&quot;</td>
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<tr>
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<td>13¼&quot;</td>
<td>72&quot;</td>
<td>150</td>
<td>20.90</td>
<td>Full</td>
</tr>
<tr>
<td>12½&quot;</td>
<td>14&quot;</td>
<td>80&quot;</td>
<td>150</td>
<td>22.10</td>
<td>Full</td>
</tr>
<tr>
<td>14&quot;</td>
<td>15¼&quot;</td>
<td>84&quot;</td>
<td>125</td>
<td>26.10</td>
<td>Full</td>
</tr>
<tr>
<td>16&quot;</td>
<td>17¼&quot;</td>
<td>96&quot;</td>
<td>125</td>
<td>29.60</td>
<td>Full</td>
</tr>
<tr>
<td>18&quot;</td>
<td>19¼&quot;</td>
<td>108&quot;</td>
<td>100</td>
<td>33.20</td>
<td>Full</td>
</tr>
</tbody>
</table>
SW500 WALRUS EPDM WATER SUCTION HOSE

- Medium to light duty water suction hose for construction, mining, drilling, industrial and agricultural applications.
- Effectively conveys water, mild chemicals, slurries, brine, detergents, mild acids, alkalies and glycols.
- Premium grade EPDM tube and cover offers protection against abrasion, ozone and mild chemicals.

**Tube:** Extruded EPDM.
**Reinforcement:** Textile with dual wire helix.
**Cover:** EPDM.
**Temperature:** -40° to +200°F.

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>BEND RADIUS</th>
<th>WORKING PRESSURE PSI</th>
<th>WEIGHT LB/FT</th>
<th>VACUUM</th>
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</thead>
<tbody>
<tr>
<td>2&quot;</td>
<td>2 7/16&quot;</td>
<td>8&quot;</td>
<td>150</td>
<td>.76</td>
<td>Full</td>
</tr>
<tr>
<td>2 1/2&quot;</td>
<td>2 15/16&quot;</td>
<td>11&quot;</td>
<td>150</td>
<td>1.14</td>
<td>Full</td>
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<tr>
<td>3&quot;</td>
<td>3 7/16&quot;</td>
<td>14&quot;</td>
<td>150</td>
<td>1.46</td>
<td>Full</td>
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<tr>
<td>4&quot;</td>
<td>4 1/2&quot;</td>
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<td>150</td>
<td>2.12</td>
<td>Full</td>
</tr>
<tr>
<td>6&quot;</td>
<td>6 5/8&quot;</td>
<td>28&quot;</td>
<td>150</td>
<td>3.71</td>
<td>Full</td>
</tr>
</tbody>
</table>

www.titanindustries.com
800-242-HOSE (4673) • Fax 562.869.05.92
Internally expanded couplings consist of a stem and ferrule that provides a permanent connection between the coupling and hose. The stem is internally expanded for maximum holding power and provides a full flow, unrestricted transition area.
Externally swaged-on fittings and ferrules are attached by using special equipment to progressively reduce the ferrule diameter to the required finish dimension. Externally swaging provides a permanent connection for maximum holding power.

_split-lok flange couplings_

Externally swaged or internally expanded

fixed-floating flanges

150# or 300# floating flange

300# fixed flange

150# fixed flange

_split-lok flange gasket_

_split-lok flange couplings_

_split-lok flange coupling system_

Split-Lok flanges are a reusable, universal coupling system designed for large bore material transfer hose that allows the user to fabricate assemblies in the field. This unique full-flow coupling system provides excellent coupling retention and can be used continuously at 150 psi. Split-Lok flanges are available in a smooth steel construction or a corrugated aluminum design to meet the needs of your particular application.
HOSE SELECTION

Titan suggests using the “STamped” guide to assist in determining the correct hose, coupling, and attachment method when selecting a hose.

- **SIZE:** I.D., O.D. and length of hose that is required.
- **TEMPERATURE:** Temperature of the material being conveyed.
- **APPLICATION:** Conditions of use for the hose.
- **MATERIAL:** Type and concentration of material being conveyed.
- **PRESSURE:** Working pressure for which the hose assembly will be exposed.
- **ENDS:** Style, type, and attachment method of end fittings.
- **DELIVERY:** Testing, packaging, and delivery requirements.

You can extend the life of your hose by…

- Choosing the appropriate hose for the job. In addition to multi-purpose hoses, Titan offers hoses that are specifically designed for critical applications.
- Selecting the proper length of hose and keeping the hose from high traffic areas.
- Inspecting the hose before each use especially in critical applications. Inspect for coupling movement, kinks, cover perforations, soft spots or any other visible damage.
- Storing the hose in a cool, dry place off of the ground. Keeping the hose out of direct sunlight.
- Draining and cleaning the hose after each use.
- Pressure testing each hose at 150% of its working pressure at regular intervals. Testing intervals will depend on frequency and critical nature of the application.
- Using proper hose suspension equipment to ensure recommended curvature of the hose is not exceeded, and to provide an uninterrupted flow of material.

You will reduce the life of your hose by…

- Using the hose to move materials it was not designed to convey.
- Exceeding the hose’s maximum working temperature and pressure.
- Leaving product trapped in the hose for prolonged periods of time.
- Exceeding the hose’s minimum bend radius.
- Not using proper adapters where necessary.
- Dragging the hose over rough surfaces.

Safety

Special note: Working pressures are recommended in accordance with RMA design safety factors at ambient temperatures. Do not operate outside hose temperature limits. Even within hose temperature limits, end fittings and hose size can impact performance at higher temperatures. For your safety, Titan recommends the following working pressure reductions at the following temperatures.

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Working Pressure Reduction</th>
</tr>
</thead>
<tbody>
<tr>
<td>80° to 150°F</td>
<td>Reduce working pressure by 15%</td>
</tr>
<tr>
<td>150° to 225°F</td>
<td>Reduce working pressure by 30%</td>
</tr>
<tr>
<td>Over 225°F</td>
<td>Reduce working pressure by 50%</td>
</tr>
</tbody>
</table>

Titan Industries continually strives to make design and material improvements and reserves the right to alter specifications without prior notice.
# Product Recommendation Form

## Customer Information:

<table>
<thead>
<tr>
<th>Company:</th>
<th>Contact:</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Address:</th>
<th>Phone:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Fax: ____________________________

## Size

<table>
<thead>
<tr>
<th>I.D.</th>
<th>O.D.</th>
<th>Overall Length</th>
<th>Tolerance</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

## Temperature

<table>
<thead>
<tr>
<th>Material being Conveyed</th>
<th>Outside Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min. (°F or °C)</td>
<td>Max. (°F or °C)</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Application

<table>
<thead>
<tr>
<th>Type of Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indoor/Outdoor</td>
</tr>
<tr>
<td>Flexibility Required</td>
</tr>
<tr>
<td>External Conditions</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Intermittent/Continuous Use</th>
<th>Electrical Static Conductive</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Material

<table>
<thead>
<tr>
<th>Type of Service</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

## Pressure

<table>
<thead>
<tr>
<th>Working Pressure</th>
<th>W.P. Incl. Surges</th>
<th>Burst Pressure</th>
<th>Vacuum Required</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Ends

<table>
<thead>
<tr>
<th>End</th>
<th>Style</th>
<th>Attachment Method</th>
<th>Material</th>
<th>Threads/Bolt Hole</th>
</tr>
</thead>
<tbody>
<tr>
<td>#1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>#2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Delivery

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Date Required</th>
<th>Ship Via</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Required Testing</th>
<th>Required Certification</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Special Requirements

<table>
<thead>
<tr>
<th>Color</th>
<th>Private Branding</th>
<th>Special Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Other Information

Fax To: Titan Industries Customer Service Department 562.869.05.92

Form is available for download at our website

www.titanindustries.com

800-242-HOSE (4673) • Fax 562.869.05.92
<table>
<thead>
<tr>
<th>ASTM Designation</th>
<th>Common Name</th>
<th>Composition</th>
<th>General Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>BR</td>
<td>Polybutadiene</td>
<td>Butadiene</td>
<td>Excellent abrasion and low temperature resistance. High resilience.</td>
</tr>
<tr>
<td>CIIR</td>
<td>Chlorobutyl isoprene</td>
<td>Chlorinated isobutylene</td>
<td>Same general properties as Butyl (see IIR below).</td>
</tr>
<tr>
<td>CR</td>
<td>Neoprene*</td>
<td>Polychloroprene</td>
<td>Good weathering resistance and flame retarding. Moderate resistance to petroleum based fluids. Good physical properties.</td>
</tr>
<tr>
<td>CSM</td>
<td>Hypalon*</td>
<td>Chlorosulfonyl-Polyethylene</td>
<td>Excellent ozone, weathering and acid resistance. Good abrasion and heat resistance. Good resistance to petroleum based fluids.</td>
</tr>
<tr>
<td>EA</td>
<td>Vamac*</td>
<td>Ethylene-Acrylic Elastomer</td>
<td>Outstanding heat, ozone, and oil resistance.</td>
</tr>
<tr>
<td>EPDM</td>
<td>Ethylene Propylene Rubber</td>
<td>Ethylene-Propylene diene-terpolymer</td>
<td>Excellent ozone, chemical, and aging characteristics. Poor resistance to petroleum based fluids.</td>
</tr>
<tr>
<td>FEP</td>
<td>Teflon*</td>
<td>Fluorinated Ethylene Propylene</td>
<td>Excellent chemical resistance, electrical properties and flame resistance. Low coefficient to friction, high strength at elevated temps, low permeability.</td>
</tr>
<tr>
<td>FKM</td>
<td>Fluoroelastomer</td>
<td>Fluorocarbon Rubber</td>
<td>Excellent high temperature resistance, particularly in air or oil. Very good chemical resistance.</td>
</tr>
<tr>
<td>IIR</td>
<td>Butyl</td>
<td>Isobutylene-isoprene</td>
<td>Very good weathering resistance. Low permeability to air. Good physical properties. Poor resistance to petroleum based fluids.</td>
</tr>
<tr>
<td>IR</td>
<td>Polysisoprene</td>
<td>Polyisoprene, synthetic</td>
<td>Same properties as Natural Rubber (see NR below).</td>
</tr>
<tr>
<td>Mod XLPE</td>
<td>Modified Cross-Linked Polyethylene</td>
<td>Proprietary</td>
<td>Excellent chemical resistance with good heat and electrical properties.</td>
</tr>
<tr>
<td>NBR</td>
<td>Nitrile</td>
<td>Acrylonitrile-butadiene</td>
<td>Excellent resistance to petroleum based fluids. Moderate resistance to aromatics. Good physical properties.</td>
</tr>
<tr>
<td>NR</td>
<td>Natural Rubber</td>
<td>Polyisoprene, natural</td>
<td>Excellent physical properties including abrasion and low temperature resistance. Poor resistance to petroleum based fluids.</td>
</tr>
<tr>
<td>SBR</td>
<td>SBR</td>
<td>Styrene-butadiene</td>
<td>Good physical properties, including abrasion resistance. Poor resistance to petroleum based fluids.</td>
</tr>
<tr>
<td>UHMWPE</td>
<td></td>
<td>Ultra high molecular weight polyethylene</td>
<td>Excellent resistance to a broad range of chemicals with excellent abrasion resistance.</td>
</tr>
<tr>
<td>XLPE</td>
<td>Cross-Linked Polyethylene</td>
<td>Polyethylene and cross linking agents</td>
<td>Excellent chemical resistance with good heat and electrical properties.</td>
</tr>
<tr>
<td>Elastomer</td>
<td>Natural Rubber</td>
<td>BSR</td>
<td>Baege</td>
</tr>
<tr>
<td>-----------</td>
<td>---------------</td>
<td>-----</td>
<td>-------</td>
</tr>
<tr>
<td>Acetal</td>
<td>C</td>
<td>B</td>
<td>D</td>
</tr>
<tr>
<td>Acetaldehyde</td>
<td>D</td>
<td>D</td>
<td>A</td>
</tr>
<tr>
<td>Acetamide</td>
<td>D</td>
<td>D</td>
<td>A</td>
</tr>
<tr>
<td>Acetate Solvents</td>
<td>D</td>
<td>D</td>
<td>D</td>
</tr>
<tr>
<td>Acetic Acid, 10%</td>
<td>B</td>
<td>B</td>
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<tr>
<td>Acetic Acid, 30%</td>
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<td>B</td>
</tr>
<tr>
<td>Acetic Acid, 50%</td>
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<td>D</td>
<td>D</td>
</tr>
<tr>
<td>Acetic Acid, Glacial</td>
<td>D</td>
<td>D</td>
<td>D</td>
</tr>
<tr>
<td>Acetic Anhydride</td>
<td>D</td>
<td>D</td>
<td>D</td>
</tr>
<tr>
<td>Acetic Ester (Ethyl Acetate)</td>
<td>D</td>
<td>D</td>
<td>D</td>
</tr>
<tr>
<td>Acetic Ether (Ethyl Acetate)</td>
<td>D</td>
<td>D</td>
<td>D</td>
</tr>
<tr>
<td>Acetic Oxide (Acetic Anhydride)</td>
<td>D</td>
<td>D</td>
<td>D</td>
</tr>
<tr>
<td>Acetone</td>
<td>C</td>
<td>B</td>
<td>C</td>
</tr>
<tr>
<td>Acetophenone</td>
<td>C</td>
<td>D</td>
<td>A</td>
</tr>
<tr>
<td>Acetyl Aceton</td>
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<td>D</td>
</tr>
<tr>
<td>Acetyl Chloride</td>
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<td>D</td>
<td>C</td>
</tr>
<tr>
<td>Acetylene</td>
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<td>A</td>
</tr>
<tr>
<td>Acrylonitrile</td>
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<tr>
<td>Air</td>
<td>A</td>
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<td>A</td>
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<tr>
<td>Alcohol Aliphatic</td>
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<td>A</td>
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<tr>
<td>Alcohol, Aromatic</td>
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<td>C</td>
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<tr>
<td>Alk-Tri (Trichloroethylene)</td>
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<tr>
<td>Allyl Alcohol</td>
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<tr>
<td>Allyl Bromide</td>
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<td>D</td>
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<tr>
<td>Allyl Chloride</td>
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<td>D</td>
<td>D</td>
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<td>Alum (Alum Potassium Sulfate)</td>
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</tr>
<tr>
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<td>A</td>
</tr>
<tr>
<td>Aluminum Chloride</td>
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<td>A</td>
<td>A</td>
<td>A</td>
</tr>
</tbody>
</table>
| Ammonia Anhydrous | TITAN HOSE NOT AVAILABLE 
| Ammonia Liquid | B | B | A | B | A | A | A | A | A |
| Ammonia in Water | B | B | B | B | B | A | B | A | A |
| Ammonia, Gas (Cold) | TITAN HOSE NOT AVAILABLE |
| Ammonia Gas (150°F) | TITAN HOSE NOT AVAILABLE |
| Ammonium Carbonate | A | A | A | C | A | A | A | A | A |
| Ammonium Chloride | A | A | A | A | A | A | A | A | A |
| Ammonium Hydroxide | B | B | A | B | B | A | B | A | A |
| Ammonium Metaphosphite | A | A | A | A | A | A | A | A | A |
| Ammonium Nitrate | A             | A   | A     | A       | A    | A       | A                    | A       | A      |

The chemical resistance chart lists elastomers commonly used by Titan for manufacturing hose products. Beneath each elastomer or synthetic rubber material is a listed chemical rating. **This rating is based on application temperatures not to exceed 70°F (21.1°C) unless otherwise specified.** The percentage of concentration of the chemical is highly significant (eg. Hydrochloric acid 5% versus 37%) and our recommendation may vary considerably based on this information. **These charts are offered as a guideline only.** There are many variables to be considered with each application. If there is any question about the resistance of a listed elastomer, please contact Titan’s Technical Team at 800-242-HOSE(4673).

All ratings are based on material at ambient temperature (70° F)

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800-242-HOSE (4673) • Fax 562.869.05.92
### RESISTANCE RATING

| A | Good Resistance: Usually suitable for service. |
| B | Fair Resistance: 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. |
| D | Not Recommended: Unsuitable for service. |

#### Natural Rubber

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Resistance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barium Sulfide</td>
<td>A A A A A A A A</td>
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<tr>
<td>Beer</td>
<td>A A A A A A A A</td>
</tr>
<tr>
<td>Beet Sugar Liquors</td>
<td>A A A A A A A A</td>
</tr>
<tr>
<td>Benzaldehyde</td>
<td>D D D D D A A A A</td>
</tr>
<tr>
<td>Benzene (Benzol)</td>
<td>D D D D D D A - - A</td>
</tr>
<tr>
<td>Benzene Sulphonic Acid</td>
<td>D D D D B B D A A A A</td>
</tr>
<tr>
<td>Benzine Solvent (Ligroin)</td>
<td>D D D D D D C A - - A</td>
</tr>
<tr>
<td>Benzoic Acid</td>
<td>D D D D D D D A A A A</td>
</tr>
<tr>
<td>Benzoic Aldehyde</td>
<td>D D D D D D D A A A A</td>
</tr>
<tr>
<td>Benzoic Chloride</td>
<td>D D D D D D D B B B A</td>
</tr>
<tr>
<td>Benzylic Alcohol</td>
<td>D D D D D B B B A A</td>
</tr>
<tr>
<td>Benzylic Chloride</td>
<td>D D D D D D D A - - A</td>
</tr>
<tr>
<td>Bichromate of Soda (Sodium Dichromate)</td>
<td>B B A A B A A A A - A</td>
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<tr>
<td>Black Sulfate Liquor</td>
<td>A A A A A A A A A A A A</td>
</tr>
<tr>
<td>Blast Furnace Gas</td>
<td>C C C C A C C A A A A</td>
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<tr>
<td>Bleach Solutions</td>
<td>D D D D D D C B B B A</td>
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<td>Borax</td>
<td>A A A A A A A A A A A A</td>
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<td>Bordeaux Mixture</td>
<td>B B A A A A A A A A A</td>
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<td>Brandy</td>
<td>FDA Tube Required</td>
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<tr>
<td>Brine</td>
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<td>Bromine</td>
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<td>Bromine Water</td>
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<tr>
<td>Bromobenzene</td>
<td>D D D D D D D B C - C A</td>
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<tr>
<td>Bunker Oil</td>
<td>D D D D A D D A B A A</td>
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<tr>
<td>Butanol</td>
<td>A A A A A A A A A A A A</td>
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<td>Butane</td>
<td>D D D D B A A A A A A</td>
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<td>Butter</td>
<td>C C A A B A A A A A</td>
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<tr>
<td>Butyl Acetate</td>
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<tr>
<td>Butyl Acrylate</td>
<td>C D D D D D D D D B</td>
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<tr>
<td>Butylamine</td>
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<tr>
<td>Butyl Benzene</td>
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<tr>
<td>Butyl Bromide</td>
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<tr>
<td>Butyl Butyrate</td>
<td>D D D D D D D D B C B</td>
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<tr>
<td>Butyl Carbitol</td>
<td>D D A A B B B A A A A</td>
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<tr>
<td>Butyl Cellosolve</td>
<td>D D A B B B B A A A</td>
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<tr>
<td>Butyl Chloride</td>
<td>D D D D D D D D B A</td>
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<tr>
<td>Butyl Ether</td>
<td>C D C B B C D A A A A A</td>
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<tr>
<td>Butyl Ether Ethyl Acetaldehyde</td>
<td>D D D D D D D D A A A A</td>
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<tr>
<td>Butyl Ether Ethyl Ether</td>
<td>D D D D D D D D C A - A -</td>
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<tr>
<td>Butyl Oleate</td>
<td>D D D D D A A A A A</td>
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<tr>
<td>Butyl Phtalate</td>
<td>D C D D D D A C - - -</td>
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<tr>
<td>Butyl Stearate</td>
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#### Butyl Rubber

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<tr>
<th>Chemical</th>
<th>Resistance</th>
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<tr>
<td>Butyraldehyde</td>
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<td>Butyric Acid</td>
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<tr>
<td>Butyric Anhydride</td>
<td>C D C C D B C C C A - A</td>
</tr>
<tr>
<td>Calcium Acetate</td>
<td>C D A D D D D A A A A</td>
</tr>
<tr>
<td>Calcium Bisulfate</td>
<td>C C B A A A A A A A A</td>
</tr>
<tr>
<td>Calcium Carbonate</td>
<td>A A A A A A A A A A A A</td>
</tr>
<tr>
<td>Calcium Chloride</td>
<td>A A A A A A A A A A A A</td>
</tr>
<tr>
<td>Calcium Hydroxide</td>
<td>A A A A A A A A A A A A</td>
</tr>
<tr>
<td>Calcium Hypochlorite</td>
<td>D D A D D B A A B B A</td>
</tr>
<tr>
<td>Calcium Nitrate</td>
<td>A A A A A A A A A A A A</td>
</tr>
<tr>
<td>Calcium Sulfate</td>
<td>A A A A A A A A A A A A</td>
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<tr>
<td>Calcium Sulfite</td>
<td>A A A A A A A A A A A A</td>
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<tr>
<td>Caliche Liquor</td>
<td>A A A A A A A A A A A A</td>
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<tr>
<td>Cane Sugar Liquors</td>
<td>A A A A A A A A A A A A</td>
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<tr>
<td>Carbitol</td>
<td>D D A B B B B B A A - A</td>
</tr>
<tr>
<td>Carbitol Acetate</td>
<td>D D B D D D B A A A A</td>
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<tr>
<td>Carbolic Acid</td>
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<tr>
<td>Carbon Bisulfide</td>
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<tr>
<td>Carbon Dioxide</td>
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<tr>
<td>Carbon Disulfide</td>
<td>D D D D D D A A A C C A</td>
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<tr>
<td>Carbonic Acid</td>
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<tr>
<td>Carbon Monoxide</td>
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<tr>
<td>Carbon Tetrachloride</td>
<td>D D C D D D D D A - A - A</td>
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<td>Carbon Tetrafluoride</td>
<td>D D D C D D D C C A - A</td>
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<tr>
<td>Castor Oil</td>
<td>A A A A A A A A A A A A</td>
</tr>
<tr>
<td>Caustic Potash</td>
<td>A B A B A B A C A A A</td>
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<tr>
<td>Caustic Soda</td>
<td>A B A B B B A A A A</td>
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<tr>
<td>Cellosolve</td>
<td>B B B A D D A A</td>
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<td>Cellulose Acetate</td>
<td>C D B D C B D B A B A</td>
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<td>Cellulose</td>
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<td>China Wood Oil</td>
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<td>Chlorine Dioxide</td>
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<td>Chlorine Gas</td>
<td>A A A A A A A A A A A A</td>
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<td>Chlorine Water Solns</td>
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<td>Chloroacetic Acid</td>
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<td>Chloracetic Acid</td>
<td>D D B D B D D D A - A - A</td>
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<tr>
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<td>D D D D D D D D D D A</td>
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<tr>
<td>Chlorobenzene</td>
<td>D D D D D D D D A A B B B</td>
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<tr>
<td>Chlorobutane</td>
<td>D D D D D D D A B A B -</td>
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<td>Chlorobutadiene</td>
<td>D D D D D A B B B</td>
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<tr>
<td>Chloroform</td>
<td>D D D D D D D D D D A A</td>
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<tr>
<td>Chlorinated Hydrocarbons</td>
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<tr>
<td>Chloropentane</td>
<td>D D D D D D D D A A A A</td>
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<tr>
<td>Chlorophenol</td>
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<td>--------------------------------</td>
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<tr>
<td>Chloropropane</td>
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<tr>
<td>Chlorosulfonic Acid</td>
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<tr>
<td>Chlorothene</td>
<td>D</td>
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<tr>
<td>Chlorotoluene</td>
<td>D</td>
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<tr>
<td>Chromic Acid</td>
<td>D</td>
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<tr>
<td>Citric Acid</td>
<td>A</td>
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<tr>
<td>Coal Oil</td>
<td>A</td>
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<tr>
<td>Coal Tar</td>
<td>A</td>
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<tr>
<td>Coal Tar Naphtha</td>
<td>A</td>
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<tr>
<td>Cobalt Chloride</td>
<td>A</td>
</tr>
<tr>
<td>Coconut Oil</td>
<td>A</td>
</tr>
<tr>
<td>Cod Liver Oil</td>
<td>A</td>
</tr>
<tr>
<td>Coke Oven Gas</td>
<td>C</td>
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<tr>
<td>Copper Arsenate</td>
<td>A</td>
</tr>
<tr>
<td>Copper Chloride</td>
<td>A</td>
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<tr>
<td>Copper Cyanide</td>
<td>A</td>
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<tr>
<td>Copper Nitrate</td>
<td>A</td>
</tr>
<tr>
<td>Copper Nitrile</td>
<td>A</td>
</tr>
<tr>
<td>Copper Sulfate</td>
<td>C</td>
</tr>
<tr>
<td>Copper Sulfide</td>
<td>C</td>
</tr>
<tr>
<td>Corn Oil</td>
<td>C</td>
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<tr>
<td>Cottonseed Oil</td>
<td>C</td>
</tr>
<tr>
<td>Creosote (Coal Tar)</td>
<td>D</td>
</tr>
<tr>
<td>Creosote (Wood)</td>
<td>D</td>
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<tr>
<td>Creosols</td>
<td>C</td>
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<tr>
<td>Cresyllic Acid</td>
<td>D</td>
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<tr>
<td>Crude Oil</td>
<td>D</td>
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<tr>
<td>Cumene</td>
<td>D</td>
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<tr>
<td>Cupric Carbonate</td>
<td>C</td>
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<tr>
<td>Cupric Chloride</td>
<td>C</td>
</tr>
<tr>
<td>Cupric Nitrate</td>
<td>C</td>
</tr>
<tr>
<td>Cupric Sulfate</td>
<td>C</td>
</tr>
<tr>
<td>Cyclohexane</td>
<td>D</td>
</tr>
<tr>
<td>Cyclohexanone</td>
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<td>Cyclohexanol</td>
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<tr>
<td>Cyclopentane</td>
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<tr>
<td>P-Cymene</td>
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<tr>
<td>DDT in Kerosene</td>
<td>D</td>
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<tr>
<td>Decaline</td>
<td>D</td>
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<tr>
<td>Decane</td>
<td>D</td>
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<tr>
<td>Detergent Solutions</td>
<td>B</td>
</tr>
<tr>
<td>Diacetone Alcohol</td>
<td>D</td>
</tr>
<tr>
<td>Diamyline</td>
<td>T</td>
</tr>
<tr>
<td>Dibenzyl Ether</td>
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</tbody>
</table>

These charts are offered as a guideline only. If there is any question about the resistance of a listed elastomer, please contact Titan's Technical Team at 800-242-HOSE (4673). All ratings are based on material at ambient temperature (70°F).
### Resistance Rating

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<tr>
<th>Class</th>
<th>Description</th>
<th>Symbols</th>
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<tbody>
<tr>
<td>A</td>
<td>Good Resistance: Usually suitable for service.</td>
<td>AA BB DD</td>
</tr>
<tr>
<td>B</td>
<td>Fair Resistance: Chemical has some deteriorative effects, but the elastomer is still adequate for moderate service.</td>
<td>AB BB DD</td>
</tr>
<tr>
<td>C</td>
<td>Depends on Condition: Moderate service may be possible if chemical exposure is limited or infrequent.</td>
<td>AB BB DD</td>
</tr>
<tr>
<td>D</td>
<td>Not Recommended: Unsuitable for service.</td>
<td>AB BB DD</td>
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### Chemical Resistance

<table>
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<th>Class</th>
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<tr>
<td>Dilauryl Ether</td>
<td>D</td>
<td>C D C D C C A B A A</td>
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<tr>
<td>Dimethylamine</td>
<td>D</td>
<td>C D TITAN HOSE NOT AVAILABLE</td>
</tr>
<tr>
<td>Dimethyl Benzene</td>
<td>D</td>
<td>D D D D B A A A</td>
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<tr>
<td>Dimethylaniline</td>
<td>D</td>
<td>D D D D D B A A A</td>
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<tr>
<td>Dimethylformamide (DMF)</td>
<td>D</td>
<td>C C C D C C D A A A A</td>
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<tr>
<td>Dimethyl Ketone (Acetone)</td>
<td>D</td>
<td>B C A D C C A A A A A A</td>
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<tr>
<td>Dimethyl Phthalate</td>
<td>D</td>
<td>A D D D D B C A A A</td>
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<tr>
<td>Dimethyl Sulfate</td>
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<td>Dimethyl Sulfide</td>
<td>D</td>
<td>D C D D D D C B A B A</td>
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<td>D C D C D C A B A B A</td>
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<td>Dioctyl Adipate (DOA)</td>
<td>D</td>
<td>D A D D D B C A A A A</td>
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<tr>
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<td>Dioxolane</td>
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<td>D C D D D C B A B A</td>
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<td>Dipentene (Limonene)</td>
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<td>Dodecyl Benzene</td>
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<td>D D D D D D A A A</td>
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<td>Diphenyl Oxide (Phenylether)</td>
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<td>Diisopropylamine</td>
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<td>Dipropylene Glycol</td>
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<td>A A A A A A A A A A</td>
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<td>Dowfume W 40, 100%</td>
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<td>D D D D D C C C B - B -</td>
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<td>A</td>
<td>A A A A A A A A A A A A A A</td>
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<tr>
<td>Dry Cleaning Fluids</td>
<td>D</td>
<td>D D C D D D A B - B -</td>
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<td>Epichlorhydrin</td>
<td>D</td>
<td>D C D C C B D B B B A</td>
</tr>
<tr>
<td>Ethanol (Ethyl Alcohol)</td>
<td>A</td>
<td>A A A A A A A C A A A</td>
</tr>
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<td>A</td>
<td>TITAN HOSE NOT AVAILABLE</td>
</tr>
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<td>Ethers</td>
<td>C</td>
<td>C C C C B D D A A B A</td>
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<tr>
<td>Ethyl Acetate</td>
<td>B</td>
<td>B D D D D D A A B A</td>
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<tr>
<td>Ethyl Acetoacetate</td>
<td>B</td>
<td>D B D D D D A A A A</td>
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<td>Formamide</td>
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<td>Freon 11</td>
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<td>Freon 12</td>
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</table>

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**RESISTANCE RATING**

**A** Good Resistance: Usually suitable for service.

**B** Fair Resistance: 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.

**D** Not Recommended: Unsuitable for service.

---

| Freon 13 | Halowax oil | D | D | D | D | D | D | D | A | A | A | A | A |
| Freon 21 | Heptachlor in Petroleum Solvents | D | D | B | B | D | D | A | B | A | A | A |
| Freon 22 | Heptachlor in Petroleum Solvents, Water Spray | D | D | D | D | B | B | D | A | - | A | - |
| Freon 31 | Heptanal (Heptanaldehyde) | D | D | D | D | D | D | B | B | D | A | A | A | A |
| Freon 32 | Heptane | D | D | D | D | A | B | D | A | A | A | A | A |
| Freon 112 | Hexane | D | D | D | A | C | D | A | B | A | A | A |
| Freon 113 | Hexane | D | D | D | A | C | D | A | B | A | A | A | A |
| Freon 114 | Hexanol (Hexyl Alcohol) | A | A | A | A | A | A | A | A | A | A | A | A |
| Freon 115b | Hexylamine | D | D | D | A | D | D | A | A | A | A | A | A | A |
| Freon 502 | Hexylamine | D | D | D | A | B | B | B | B | A | A | A | A |
| Freon 218 | Hexylamine | D | D | D | A | D | D | D | A | A | A | A | A | A |
| Freon C316 | Hexylene Glycol | A | A | A | A | A | A | A | A | A | A | A | A |
| Freon C318 | Hexylene Glycol | A | A | A | A | A | A | A | A | A | A | A | A |
| Freon 13B1 | Hexyl Methyl Ketone | D | D | B | D | B | D | B | D | A | A | A | A |
| Freon 114B2 | Hexyl Methyl Ketone | D | D | D | C | D | D | D | A | B | B | A | A |
| Freon 502 | Hydraulic Fluid (Phosphate Ester Base) | D | D | A | B | B | D | A | A | A | A |
| Freon TF | Hydraulic Fluid (Poly Alkylene Glycol Base) | B | B | A | A | A | A | A | A | A | A | A | A |
| Freon T-WD 602 | Hydraulic Fluid (Poly Alkylene Glycol Base) | B | B | A | A | A | A | A | A | A | A | A | A |
| Freon TMC | Hydrobromic Acid | C | D | A | C | A | C | A | A | A | A | A | A |
| Freon T-P3S | Hydrochloric Acid, 5% | B | B | B | D | B | D | A | A | A | A | A | A |
| Freon TA | Hydrochloric Acid, 15% | B | B | B | D | D | D | A | A | A | A | A | A |
| Freon TC | Hydrochloric Acid, 37% | - | - | - | - | C | A | A | A | A | A | A |
| Freon MF | Hydrocyanic Acid | B | B | C | B | C | A | C | A | A | A | A | A |
| Freon BF | Hydrofluoric Acid | D | D | D | C | D | D | A | C | A | A | A | A |
| Fuel Oil | Hydrofluorosilic Acid | A | B | A | B | B | A | A | A | A | A | A | A |
| Fuel, ASTM A | Hydrogen Gas | - | - | - | - | - | - | - | - | - | - | - | - |
| Fuel, ASTM B | Hydrogen Peroxide, 3% | D | D | C | C | C | C | A | A | A | A | A | A |
| Fuel, ASTM C | Hydrogen Peroxide, 10% | D | D | C | D | C | C | A | A | A | A | A | A |
| Fumaric Acid | Hydrogen Peroxide, 30% | D | D | D | D | D | D | D | C | A | A | A | A |
| Furam | Hydrogen Peroxide, 90% | D | D | D | D | D | D | D | C | B | B | - | A |
| Furfural | Hydrogen Sulfide | - | - | - | - | - | - | - | - | - | - | - | - |
| Furfuryl Alcohol | Hydroquinone | B | B | B | D | D | B | C | D | A | A | A | A |
| Gallic Acid | Hypochlorous Acid | B | B | B | D | B | A | B | A | A | A | A | A |
| Gasoline, Reg | Ink Oil (Linseed Oil Base) | D | D | B | B | B | B | B | A | A | A | A | A |
| Gasoline, Hi-Test | Insulating Oil | D | D | D | A | B | D | D | A | A | A | A | A |
| Gasoline, Lead Free | Iodine | D | D | D | D | D | D | C | D | C | A | A | A |
| Gelatin | Iron Acetate | C | C | B | A | B | B | B | C | A | A | A |
| Gluconic Acid | Iron Hydroxide | C | C | B | A | B | B | B | C | A | A | A |
| Glue | Iron Salts | A | A | A | A | A | A | A | A | A | A | A | A |
| Glycerine (Glycerol) | Iron Sulfate | A | A | A | A | A | A | A | A | A | A | A | A |
| Glycol | Iron Sulfide | A | A | A | A | A | A | A | A | A | A | A | A |
| Grease | Isomyl Acetate | D | D | A | D | D | D | B | D | A | A | A | A |
| Green Sulfate Liquor | Isopropyl Alcohol | - | - | A | - | A | - | A | A | A | A | A | A |

These charts are offered as a guideline only. If there is any question about the resistance of a listed elastomer, please contact Titan’s Technical Team at 800-242-HOSE (4673). All ratings are based on material at ambient temperature (70°F).
Good Resistance:

- BC
- BB
- DD
- DB
- CD
- BD
- AA

Usually suitable for service.

Fair Resistance:

- BA
- CD
- AB
- DD
- AD
- BB
- AC
- AA

Chemical has some deteriorative effects, but the elastomer is still adequate for moderate service.

Depends on Condition:

- Moderate service may be possible if chemical exposure is limited or infrequent.

Not Recommended:

- AA
- BA
- DA
- AA
- AA
- AA

Unsuitable for service.

These charts are offered as a guideline only. If there is any question about the resistance of a listed elastomer, please contact Titan's Technical Team at 800-242-HOSE (4673). All ratings are based on material at ambient temperature (70°F).
<table>
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<tr>
<th>Chemical</th>
<th>Resistance Rating</th>
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<tbody>
<tr>
<td>Methyl Salicylate</td>
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<tr>
<td>Methyl tert-Butyl Ether (MTBE)</td>
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<tr>
<td>Mineral Oil</td>
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<tr>
<td>Mineral Spirits</td>
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<tr>
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<td>Monochlorodifluoromethane (Freon 22)</td>
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<td>Monomethyl ether</td>
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<tr>
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<tr>
<td>Muratic Acid</td>
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<tr>
<td>Naphthalene</td>
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<td>Neatsfoot Oil</td>
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<td>Nickel Chloride</td>
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<td>Nickel Nitrate</td>
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<tr>
<td>Nickel Plating Solution</td>
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<td>Octyl Carbinol</td>
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<td>Octylene Glycol</td>
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<td>Phosphorous Trichloride</td>
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<tr>
<td>Pickling Solution</td>
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<td>Picric Acid, Molten</td>
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<td>Pine</td>
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<td>Pitch</td>
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</tr>
<tr>
<td>Polyvinyl Acetate Emulsion (PVA)</td>
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<td></td>
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</table>

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### RESISTANCE RATING

<table>
<thead>
<tr>
<th>Resistance Level</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Good Resistance: Usually suitable for service.</td>
</tr>
<tr>
<td>B</td>
<td>Fair Resistance: Chemical has some deteriorative effects, but the elastomer is still adequate for moderate service.</td>
</tr>
<tr>
<td>C</td>
<td>Depends on Condition: Moderate service may be possible if chemical exposure is limited or infrequent.</td>
</tr>
<tr>
<td>D</td>
<td>Not Recommended: Unsuitable for service.</td>
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### CHEMICAL RESISTANCE

<table>
<thead>
<tr>
<th>Substance</th>
<th>Resistance Rating</th>
</tr>
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<tbody>
<tr>
<td>Polyethylene Glycol</td>
<td>A</td>
</tr>
<tr>
<td>Polypropylene Glycol</td>
<td>A</td>
</tr>
<tr>
<td>Potassium Bicarbonate</td>
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</tr>
<tr>
<td>Potassium Bisulfate</td>
<td>A</td>
</tr>
<tr>
<td>Potassium Carbonate</td>
<td>A</td>
</tr>
<tr>
<td>Potassium Chloride</td>
<td>A</td>
</tr>
<tr>
<td>Potassium Chromate</td>
<td>D</td>
</tr>
<tr>
<td>Potassium Cyanide</td>
<td>A</td>
</tr>
<tr>
<td>Potassium Dichromate</td>
<td>D</td>
</tr>
<tr>
<td>Potassium Hydrate</td>
<td>B</td>
</tr>
<tr>
<td>Potassium Hydroxide</td>
<td>B</td>
</tr>
<tr>
<td>Potassium Nitrate</td>
<td>A</td>
</tr>
<tr>
<td>Potassium Permanganate</td>
<td>D</td>
</tr>
<tr>
<td>Potassium Silicate</td>
<td>A</td>
</tr>
<tr>
<td>Potassium Sulfate</td>
<td>A</td>
</tr>
<tr>
<td>Potassium Sulfide</td>
<td>A</td>
</tr>
<tr>
<td>Potassium Sulfite</td>
<td>A</td>
</tr>
<tr>
<td>Producer Gas</td>
<td>D</td>
</tr>
<tr>
<td>Propane Gas</td>
<td>D</td>
</tr>
<tr>
<td>Propanediol</td>
<td>A</td>
</tr>
<tr>
<td>Propyl Acetate</td>
<td>B</td>
</tr>
<tr>
<td>Propyl Alcohol (Propanol)</td>
<td>A</td>
</tr>
<tr>
<td>Propyl Aldehyde</td>
<td>C</td>
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<tr>
<td>Propyl Chloride</td>
<td>D</td>
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<tr>
<td>Propylene Diamine</td>
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</tr>
<tr>
<td>Propylene Dichloride</td>
<td>B</td>
</tr>
<tr>
<td>Propylene Glycol</td>
<td>A</td>
</tr>
<tr>
<td>Pydraul Hydraulic Fluids</td>
<td>D</td>
</tr>
<tr>
<td>Pyranol</td>
<td>D</td>
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<tr>
<td>Pyridine</td>
<td>D</td>
</tr>
<tr>
<td>Pyrroligneous Acid</td>
<td>C</td>
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<tr>
<td>Pyrrole</td>
<td>C</td>
</tr>
<tr>
<td>Rape Seed Oil</td>
<td>D</td>
</tr>
<tr>
<td>Red Oil (Crude Oleic Acid)</td>
<td>D</td>
</tr>
<tr>
<td>Richfield A Weed Killer, 100%</td>
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</tr>
<tr>
<td>Richfield B Weed Killer, 33%</td>
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</tr>
<tr>
<td>Rosin Oil</td>
<td>D</td>
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<tr>
<td>Rotenone and Water</td>
<td>A</td>
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<tr>
<td>Rum</td>
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<tr>
<td>Sal Ammoniac (Ammonium Chloride)</td>
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</tr>
<tr>
<td>Salicylic Acid</td>
<td>B</td>
</tr>
<tr>
<td>Salt Water (Sea Water)</td>
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<tr>
<td>Sewage</td>
<td>C</td>
</tr>
</tbody>
</table>

### Special Notes:
- Sodium Sulfate: A
- Sodium Chloride: A
- Sodium Bicarbonate: A
- Sodium Sulfite: A
- Sodium Sulfide: A
- Sodium Thiosulfate: A
- Soybean Oil: D
- Stannic Chloride: A
- Stannous Chloride: A
- Stannous Sulfide: A
- Steam, under 300 degrees F: TITAN HOSE NOT AVAILABLE
- Steam, over 300 degrees F: TITAN HOSE NOT AVAILABLE

These charts are offered as a guideline only. If there is any question about the resistance of a listed elastomer, please contact Titan's Technical Team at 800-242-HOSE (4673). All ratings are based on material at ambient temperature (70°F).
<table>
<thead>
<tr>
<th>RESISTANCE RATING</th>
<th>Natural Rubber</th>
<th>EPDM®</th>
<th>Bimetal®</th>
<th>Nitrile</th>
<th>Hytrel®</th>
<th>EPDS®/Viton®</th>
<th>FEP/Teflon®</th>
</tr>
</thead>
<tbody>
<tr>
<td>D Not Recommended</td>
<td>Unsuitable for service.</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>C Depends on Condition</td>
<td>Moderate service may be possible if chemical exposure is limited or infrequent.</td>
<td></td>
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<tr>
<td>B Fair Resistance</td>
<td>Chemical has some deteriorative effects, but the elastomer is still adequate for moderate service.</td>
<td></td>
<td></td>
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<tr>
<td>A Good Resistance</td>
<td>Usually suitable for service.</td>
<td></td>
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### Chemical Resistance

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Natural Rubber</th>
<th>EPDM®</th>
<th>Bimetal®</th>
<th>Nitrile</th>
<th>Hytrel®</th>
<th>EPDS®/Viton®</th>
<th>FEP/Teflon®</th>
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<tbody>
<tr>
<td>Trichloroethane</td>
<td>D</td>
<td>D</td>
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<td>D</td>
<td>D</td>
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<tr>
<td>Trichloroethylene</td>
<td>D</td>
<td>D</td>
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<td>Triethanolamine (TEA)</td>
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<td>2,4-D with 10% Fuel Oil</td>
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<td>B</td>
<td>B</td>
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<td>Vinyl Acetate</td>
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<td>D</td>
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<td>B</td>
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<td>Vinyl Chloride (Monomer)</td>
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<td>D</td>
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<td>V.M. &amp; P. Naphtha</td>
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<td>D</td>
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<td>Water, Salt</td>
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<td>Whiskey, Wines</td>
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<td>C</td>
<td>A</td>
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<td>A</td>
<td>C</td>
<td>C</td>
<td>B</td>
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<tr>
<td>Zinc Chloride</td>
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<td>C</td>
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<td>A</td>
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<td>Zinc Chromate</td>
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<td>C</td>
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<td>Zinc Sulfate</td>
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<td>A</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>A</td>
</tr>
</tbody>
</table>

These charts are offered as a guideline only. If there is any question about the resistance of a listed elastomer, please contact Titan’s Technical Team at 800-242-HOSE (4673). All ratings are based on material at ambient temperature (70°F).
FORCE-TO-BEND AND MINIMUM BEND RADIUS

The amount of force required to bend a hose and the minimum bend radius are important factors in hose design and selection. The minimum bend radius is defined as the radius to which the hose can be bent in service without damaging or appreciably shortening the life of the product. Perhaps more important in determining flexibility, the force-to-bend is defined as the amount of stress required to induce bending around a specified radius. The less force that is required, the easier the product is to maneuver in the field.

Different hose constructions may require significantly different forces to attain the same minimum bend radius. Generally, the preferred hose is the more flexible hose, provided all other properties are essentially equivalent.

General formula to determine minimum hose length given hose bend radius and degree of bend required:

\[
\text{Angle of Bend} \times \frac{2 \pi r}{360^\circ} = \text{Minimum length of hose to make bend.}
\]

\[\text{r} = \text{Given bend radius of hose.}\]

Example: To make a 90° bend with 2" I.D. hose.
Given \(r = 4.5\) inches.

\[
\frac{90}{360^\circ} \times 2 \times 3.14 \times 4.5
\]

\[.25 \times 2 \times 3.14 \times 4.5 = 7''\]
minimum length of hose to make bend without damage to hose.

The bend radius for a given application must be equal to or greater than the rated minimum bend radius. Bending the hose to a smaller bend radius than minimum may kink the hose and result in premature failure.

SUCTION AND VACUUM

Most hose is used for pressure service; however, some applications require the hose to resist collapse in suction and vacuum service. Such hose is subjected to crushing forces because the atmospheric pressure outside the hose is greater than the internal pressure. The hose can collapse and restrict the flow unless the hose is constructed to resist these pressure differentials.

The most common method of preventing hose collapse is to build a helical wire reinforcement into the hose body. The size and spacing of the wire reinforcement depends on the size of the hose and the pressure differential. In such applications approaching a perfect vacuum, most of the carcass plies are applied over the wire reinforcement.

The hose is constructed with high adhesion between the tube and the carcass to prevent tube separation. Suction hose must be specifically designed for the service for which it is used. Each element -- tube, textile reinforcement, size, spacing, and location of the wire reinforcement -- must be carefully considered.

While suction hose is generally used to convey liquids, vacuum hose carries air under a partial vacuum. Vacuum hose is reinforced to resist collapse and maintain its shape under rough handling and/or mechanical abuse. It does not require the heavy construction of suction hose because the dry materials generally conveyed are much lighter in weight than liquids and the vacuum is usually less than for normal suction service.

**Conductive Hose**

Conductive hose constructions are those that are capable of conducting an electrical current.

Static wires and conductive rubber components are used in hose to prevent static electricity build-up and a discharge as a spark. Electrical engineers differ in opinion on the effects of static electricity and the means of dissipating it. In handling gasoline and other petroleum-based liquids, recognized national associations and companies have conflicting opinions on the need for conductive hoses.

Until a consensus is reached among all associations, laboratories and users, and a standard practice is established, it is essential that the user determine the need for static bonded hose based on (a) the intended use of the hose, (b) instructions from the company's Safety Division, (c) the insurer, and (d) the laws of the States in which the hose will be used.

Some types of hose include a body reinforcing wire. This wire can be used for electrical continuity provided that proper contact is made between it and the hose coupling. In non-wire reinforced hose, a static wire can be included in the hose body.

---

**Non-Conductive Hose**

Non-conductive hose constructions are those that resist the flow of electrical current.

In some specific applications, especially around high voltage electrical lines, it is imperative for safety that the hose be non-conductive. Unless the hose is designed particularly to be non-conductive and is so branded, one dare not conclude that it is non-conductive. Many black rubber compounds are inherently and inadvertently conductive. Non-conductive hose is usually made to a qualifying standard that requires it to be tested to verify the desired electrical properties. The hose is usually non-black in color and clearly branded to indicate it is designed for non-conductive applications.

**UNLESS A HOSE IS DESCRIBED SPECIFICALLY AND CLEARLY BRANDED TO BE CONDUCTING OR NON-CONDUCTING, IT MUST BE ASSUMED THAT THE ELECTRICAL PROPERTIES ARE UNCONTROLLED.**