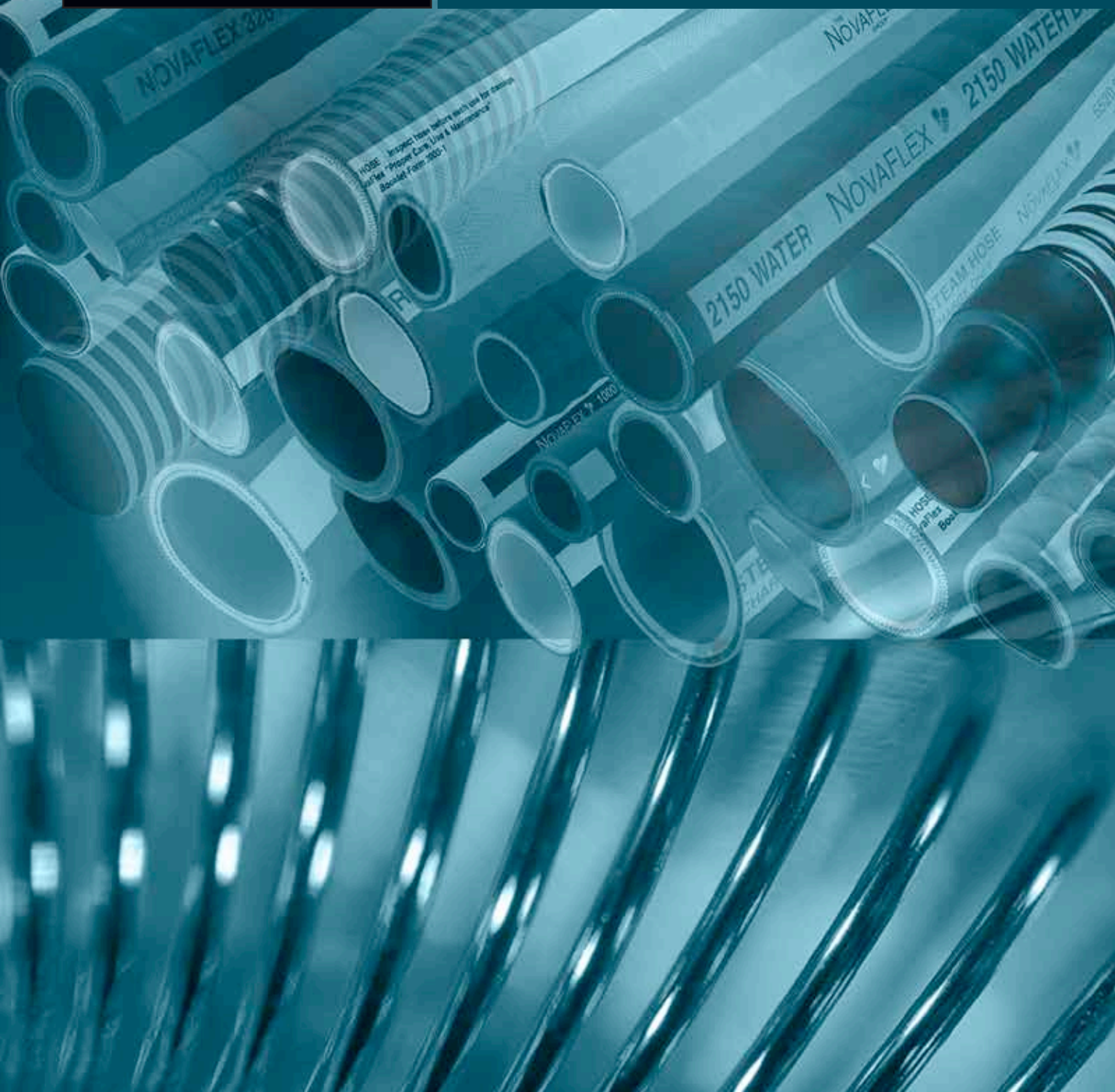




# Industrial Rubber Products



## Air & Water Hose

### Novaflex 1000\*

#### Textile Air Hose

Designed for heavy-duty use on industrial pneumatic tools in mines, quarries and construction.

#### Construction:

Tube: Medium oil resistant  
Reinforcement: Plies of polyester tire cord  
Cover: Yellow weather and abrasion resistant rubber  
Length: 100 ft (30.5m)  
Temperature Range: -30°F (-35°C) to +180°F (+82°C)  
Working Pressure: 300psi (21 Bar) to 2½" ID,  
250psi (17 Bar) 3" to 4" ID  
Style No: 1000BE

\*Available in a non-conductive and 400psi (27.5 Bar) version



### Novaflex 1208

#### Hot Air Blower Hose

A flexible lightweight hose designed for transferring hot air to tanks on dry bulk material trucks. EPDM withstands temperatures up to +375°F (+190°C) on an intermittent basis.

#### Construction:

Tube: Black EPDM  
Reinforcement: Multiple plies of polyester tire cord with wire helix  
Cover: Black heat resistant EPDM rubber  
Length: 100 ft (30.5m)  
Temperature Range: -30°F (-35°C) to +350°F (+177°C)  
Working Pressure: 150psi (17 Bar)  
Not for steam service. Style No: 1208BE

\*Available with corrugated cover, Style No: 1971BE



### Novaflex 2150

#### Water Discharge Hose

A lightweight rubber water discharge hose designed for use on portable pumps by contractors and municipalities.

#### Construction:

Tube: Black synthetic EPDM rubber  
Reinforcement: Plies of polyester tire cord  
Cover: Smooth black weather and abrasion resistant rubber  
Length: 100 ft (30.5m)  
Temperature Range: -30°F (-35°C) to +180°F (+82°C)  
Working Pressure: 1¼" - 5" 150psi (10 Bar),  
6"-12¾" 75psi (5 Bar) Style No: 2150BE

### Novaflex 2152

#### Water Suction Hose

This heavy duty water suction hose is designed for use on portable pumps by contractors, quarries and mine sites.

#### Construction:

Tube: Black synthetic EPDM rubber  
Reinforcement: Plies of polyester tire cord with wire helix  
Cover: Smooth black weather and abrasion resistant rubber  
Length: 100 ft (30.5m)  
Temperature Range: -30°F (-35°C) to +180°F (+82°C)  
Working Pressure: 3" 150psi (10 Bar) Style No: 2152BE



### Novaflex 2140

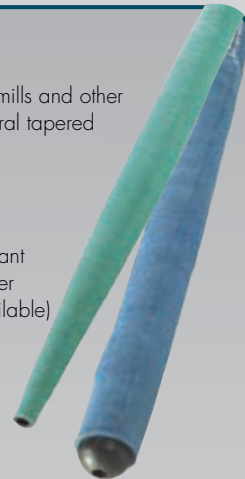
#### Papermill Wash down Hose with Nozzle

A quality wash down hose used in paper mills and other industrial applications. Supplied with integral tapered nozzle.

#### Construction:

Tube: Black synthetic rubber  
Reinforcement: Plies of polyester tire cord  
Cover: Green weather and abrasion resistant rubber supplied with integral tapered rubber nozzle built into end. (Optional colors available)  
Length: 50ft (15.2m)  
(Lengths up to 100ft (30.5m) available on request)

Temperature Range: -30°F (-35°C) to +200°F (+93°C)  
Working Pressure: 1" 200psi (13 Bar),  
1½" to 150psi (10 Bar)  
Style No: 2140BE



### Novaflex 1501

**Built on Nozzle** A wash down hose designed to provide excellent service life in rugged industrial applications that require a built-on nozzle. This product combines a robust 300psi water hose that provides excellent abrasion resistance and a built-on nozzle that is easy to grip.

#### Construction:

Tube and Cover: EPDM. Black chemical resistant compound  
Cover: Black SBR blend abrasion, ozone resistant compound  
Reinforcement: Multiple plies of polyester tire cord  
Length: 50ft (15.2m)  
Temperature Range: -20°F (-29°C) to +180°F (+82°C)  
Working Pressure: 300psi (20 Bar)  
Style No: 1501BE

### Novaflex 2151

#### Heavy Duty Hot Water Washdown Hose

Designed to meet the more rugged washdown applications in the food processing industry.

#### Construction:

Tube: White EPDM  
Reinforcement: Multiple layers of polyester cord  
Cover: White EPDM non-marking  
Length: 100ft (30.5m)  
Temperature Range: -40°F (-40°C) to +212°F (+100°C)  
Working Pressure: 300psi (20 Bar)  
Style No: 2151WE  
Not rated for steam.





# Novaflex® Industrial Rubber Hoses

## Air & Water Hose

### Novaflex 2200

#### Water Jetting Hose

Designed to be an extremely flexible, lightweight high pressure water jetting hose. Premium cover provides protection against cuts, gouging, scuffs and ozone.

#### Construction:

Tube: Black EPDM  
Reinforcement: Polyester tire cord  
Cover: Smooth black EPDM cover  
Length: 100ft (30.5m)  
Temperature Range: -30°F (-35°C) to +180°F (+82°C)  
Working Pressure: 2" 500psi (34 Bar),  
3" 400psi (27 Bar),  
Style No: 2200BE

**Novaflex 2250BE** available in high pressure



### Novaflex 2636

#### Slip Ring/Couplerless Rubber Water Hose

A lightweight lay-flat water discharge hose which is connected without couplings. The hose is built with a male and female end enabling the user to connect hoses. The male end is inserted into the female end and locked into place with a steel ring. The hoses can be easily connected and disconnected in the field without tools. Ideal for de-watering applications, irrigation, light dredging, etc.

#### Construction:

Tube: Black synthetic EPDM rubber  
Reinforcement: Multiple plies polyester tire cord  
Cover: Black synthetic rubber  
Length: 50 ft (15.2m)  
Temperature Range: -40°F (-40°C) to +180°F (+82°C)  
Working Pressure: 12" 40psi (3 Bar),  
14" to 16" 35psi (2.5 Bar),  
24" 30psi (2 Bar)  
Style No: 2636BE

Disconnect to re-use



### Novaflex 9131

#### Oxygen Charging Hose

For use in industrial applications where high pressure oxygen is needed

#### Construction:

Tube: Black Neoprene rubber  
Reinforcement: Plies of polyester tire cord  
Cover: Green weather and abrasion resistant neoprene rubber, pin pricked  
Length: 100 ft (30.5m)  
Temperature Range: -30°F (-35°C) to +180°F (+82°C)  
Working Pressure: 500psi (34 Bar)  
Style No: 9131BN

Made on stainless steel mandrels, no petroleum lubrications, ends capped.



## Food & Beverage Hose

### Novaflex 6500

#### Connoisseurs Food & Beverage Suction & Discharge Hose

The connoisseur line of food hose is designed to meet the food processing industries demanding applications. Connoisseur is built in a variety of hose constructions utilizing a white chlorobutyl tube for non-oily applications that will not impart taste or odor. Meets FDA, USDA, and 3-A Sanitary Standards Authorized (#1376). Resistant to CIP solutions. This ultra smooth microbe resistant tube is built on special stainless steel mandrels for cleanliness.

#### Construction:

Tube: White Chlorobutyl (full vacuum non-oily applications)

Reinforcement: Multiple plies of polyester tire cord with wire helix (microbe resistant)

Cover: Grey EPDM

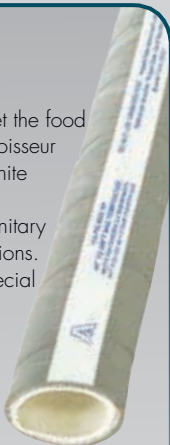
Length: 100 ft (30.5m)

Temperature Range: -40°F (-40°C) to +240°F (+116°C)

Working Pressure: 150psi (10 Bar)

(Cleaning In Place to 248°F (+120°C) Not for continuous steam service.

Style No: 6500WB Meets or exceeds the requirement of the Canadian Food Inspection Agency (File:N267).



### Novaflex 6506

#### Connoisseurs Food & Beverage Hose

Special kink and crush resistant suction & discharge hose, designed for those more demanding applications requiring a product that meets 3-A (cert# 1376), FDA & USDA standards. Designed to meet the temperatures and chemical resistance associated with "cleaning in place" systems. This ultra smooth microbe resistant tube is built for non-oily applications, on special stainless steel mandrels for cleanliness.

#### Construction:

Tube: White Chlorobutyl (non oily applications).

Reinforcement: Multiple plies of synthetic textile & dual monofilament helix.

Cover: Grey EPDM abrasion resistant.

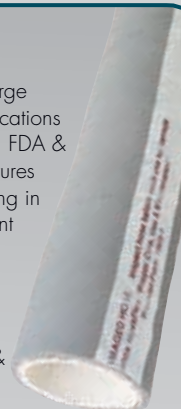
Length: 100 ft. (30.5m)

Working Pressure 250 psi (17 Bar)

Temperature Range: -40° F (-40° C) to +240° F (+116° C)

(Cleaning In Place to 248° F (+120° C). Not for continuous steam service.

Style No: 6506WB. Meets or exceeds the requirement of the Canadian Food Inspection Agency (File:N267).



### Novaflex 6507NB

#### NovaBrew

NovaBrew is a state of the art designed hose based on the specific requirements of the modern day brewery. NovaBrew has a rugged but flexible construction with a super smooth white hose tube for non-oily applications, that is microbe resistant along with a dark burgundy red cover that resists dirt scuffs and is easily cleaned. NovaBrew is built on stainless steel mandrels for cleanliness and meets FDA USDA and 3-A (certificate#1376).

#### Construction:

Tube: White Chlorobutyl (non oily applications)

Reinforcement: Multiple plies of polyester tire cord, dual monofilament helix rods

Cover: Dark burgundy EPDM

Length: 100 ft (30.5m)

Working Pressure: 250 psi (17 Bar)

Temperature Range: -40°F (-40°C) to +240°F (+116°C)

Can be open end steam cleaned CIP to +248°F (+120°C)

Style No: 6507NB

Meets or exceeds the requirement of the Canadian Food Inspection Agency File: N267.



### Novaflex 6515WB

#### Extra Flexible Connoisseurs Food & Beverage Hose Suction & Discharge

Special highly flexible suction and discharge hose, designed for those more demanding applications requiring a products that meets FDA, USDA, and 3-A Sanitary Standards Authorized (#1376). Designed to meet the temperature and chemical resistance associated with "cleaning in place" systems. This ultra smooth microbe resistant tube is built for non-oily applications on special stainless steel mandrels for cleanliness.

#### Construction:

Tube: White chlorobutyl (non oily applications).

Reinforcement: Multiple plies of polyester tire cord with steel helix wire.

Cover: Grey EPDM abrasion resistant.

(Corrugated UHMWVP cover available for added abrasion resistance.)

Length: 100 ft. (30.5m)

Temperature Range -40° F (-40° C) to

+240° F (+116° C).

Cleaning in Place to 248° F

(+120°C)

Working Pressure: 250 psi (17 Bar)

Not for continuous steam service.

Style No: 6515WB

Corrugated available with UHMWVP cover.



### Novaflex® has the ideal hose for each medium

Hygienic hoses for grains, powders, flour, dry foods, oil, syrup, dairy, juices, beer, wine, potable water and more.

**Novaflex®** Beverage and Food Hoses are characterized by reliability, safety; long service life, and easy, trouble free handling.

**Novaflex®** food hoses are specifically designed for the transportation of beverages and foodstuffs.





# Novaflex® Industrial Rubber Hoses

## Food & Beverage Hose

### Novaflex 6300

#### Nitrile Food Suction & Discharge Hose 150psi WP

Recommended for the food transfer application that demands both flexibility and ruggedness with a clean white FDA grade tube. The food grade nitrile tube is odorless and tasteless for those oily transfer applications. Excellent for suction and discharge applications.

##### Construction:

Tube: White Nitrile (FDA)

Reinforcement: Multiple plies of tire cord with dual helix wire

Cover: Grey PVC Nitrile

Length: 100 ft (30.5m)

Temperature Range: -40°F (-40°C) to +210°F (+99°C)

Working Pressure: 150psi (10 Bar)

Style No: 6300WT

#### Novaflex 6301 Nitrile Food Discharge Hose 250psi WP

Meets or exceeds the requirement of the Canadian Food Inspection Agency (File:N267)



### Novaflex 6303

#### Nitrile Corrugated Suction & Discharge Hose

This food transfer hose is designed to provide maximum flexibility along with an abrasive resistant cover. Excellent for the transfer of oily product in full suction and discharge applications. Meets FDA, USDA & 3A sanitary standards Authorized #1376. This ultra smooth microbe resistant tube is built on special stainless steel mandrels for cleanliness.

##### Construction:

Tube: White Nitrile (FDA) Reinforcement: Multiple plies of tire cord with helix wire

Cover: Grey PVC Nitrile

Length: 100 ft (30.5m)

Temperature Range: -40°F (-40°C) to +210°F (+99°C)

Working Pressure: 150psi (10 Bar)

Style No: 6303WT

Not for continuous steam service

Meets or exceeds the requirement of the Canadian Food Inspection Agency (File:N267)



### Novaflex 6314WT

#### Extra Flexible Nitrile Food 150 Suction & Discharge Hose

Recommended for the food transfer application (oily and non-oily) that demands both flexibility and ruggedness with a clean white FDA grade tube. Meets FDA, USDA & 3A sanitary standards Authorized #1376. The food grade nitrile tube is odorless and tasteless for those oily transfer applications. This ultra smooth microbe resistant tube is built of special stainless steel mandrels for cleanliness.

##### Construction:

Tube: FDA white nitrile.

Reinforcement: Multiple plies of polyester tire cord with helix wire.

Cover: Grey PVC nitrile corrugated.

Length: 100 ft (30.5m)

Temperature Range -40° F (-40° C) to +210° F (+99° C).

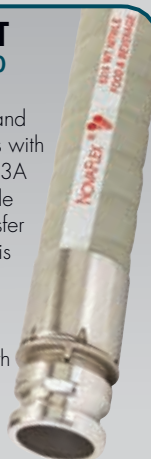
Cleaning in Place to 248° F (+120° C)

Working Pressure 150 psi (10 Bar)

Not for continuous steam service.

Style No: 6314WT

Corrugated available with UHMWP cover "WTU" for added abrasion resistance.



### Novaflex 6433CU

#### Extra Flexible White UHMW Tube Food Suction & Discharge Hose

Recommended for special applications that require smooth tubes and easy to clean surfaces. Recommended for the food transfer application that demands flexibility and ruggedness with a clean white FDA ultra high molecular weight polyethylene grade tube. This food grade tube is odorless and tasteless for all those all purpose transfer applications. This ultra smooth microbe resistant tube is built on special stainless steel mandrels for cleanliness.

##### Construction:

Tube: White FDA UHMW - odorless and tasteless (non-oily applications).

Reinforcement: Multiple plies of polyester tire cord with helix wire.

Cover: Grey EPDM Corrugated.

Length: 100 ft (30.5m)

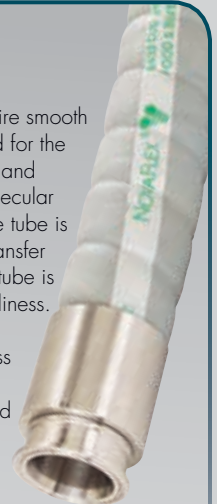
Working Pressure: 200 psi (14 Bar)

Temperature Range -40° F (-40° C) to +225° F (+116° C).

Style No: 6433CU

Cleaning in Place to 248° F (+120° C)

Not for continuous steam service.



### Nova-Glide Cover

Nova-Glide, available on [Extra Flexible Hoses](#), is an UHMWP cover applied over the rubber cover to provide easy cleaning, low co-efficient of friction and added abrasion.

## Petroleum Hose

### Nova BioFuel 100

#### Bio-diesel and Ethanol Service

A rubber hose designed to handle all grades of Bio-diesel and Ethanol. This is a full suction and discharge hose for in plant applications or for loading tank cars and trucks.

#### Construction:

Tube: Viton® chemical and heat resistant rubber

Reinforcement: Plies of polyester tire cord with helix wire

Cover: Smooth red weather and abrasion resistant nitrile rubber

Length: 100 ft (30.5m)

Temperature Range: -20°F (-29°C) to +250°F (+121°C)

Working Pressure: 200psi (14 Bar)

Consult chemical resistance chart

Not for steam service, can be open and steam cleaned. Style 4805BV



### Uni-BioFuel 100

#### Bio-diesel and Ethanol Service

Uni-BioFuel 100, a special alternative fuel hose designed to handle all grades of bio- diesel, including 100% B100, neat bio-diesel and E85 - 85% ethanol fuel blends. Uni- BioFuel hoses are built with a specialized combination of high performance films and fabrics designed to handle today's fully concentrated alternative fuels.

Full vacuum.

G-High Tensile Galvanized Carbon Steel Inner Helix.

G-High Tensile Galvanized Carbon Steel Outer Helix

Temperature Range: -40°F (-40°C) to +250°F (+100°C)

Working Pressure: 1" - 8" 250psi (17 Bar)

(Stainless steel inner wire available)

Style: 3UCBIOFUEL

### Novaflex 3251BT

#### Extra Flexible Tank Truck Hose

A very flexible economical, lightweight hose designed for transfer of petroleum products. Excellent for use in oil field applications

#### Construction:

Tube: Nitrile

Reinforcement: Multiple plies polyester tire cord and steel wire helix

Cover: Corrugated black oil resistant cover

Length: 100 ft (30.5m)

Temperature Range: -30°F (-35°C) to +180°F (+82°C)

Working Pressure: 150psi (10 Bar)

Style: 3251BT



### Novaflex 3257

#### Corrugated Low Temperature Tank Truck Hose

A medium duty low temperature petroleum suction and transfer hose designed to be highly flexible with a hose cover that provides extra abrasion resistance to meet the demanding requirements of industry. Handles all grades of gasoline with aromatic contents to 55%.

#### Construction:

Tube: Black Nitrile

Reinforcement: Multiple plies tire cord with static wire

Cover: black oil and abrasion resistant rubber

Length: 100 ft (30.5m)

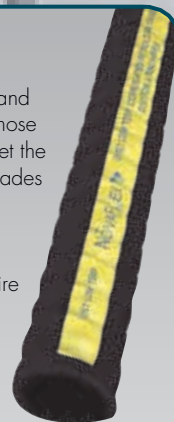
Temperature Range: -30°F (-35°C) to +180°F

(+82°C)

Working Pressure: 250psi (17 Bar)

(Also available with red cover)

Style No: 3257BT



### Novaflex 2019

#### Coolant Hose

Designed for heavy duty industrial or automotive coolant service. This three-ply construction hose has a specially blended tube compound designed to resist heat and oil. Meets SAE J20-R1 (3 & 5 ply only).

#### Construction:

Tube: Black EPDM

Reinforcement: Plies of fabric

Cover: Black EPDM

Length: Available in 50 ft (15.2m) lengths

Temperature Range: -40°F (-40°C) to +200°F (+93°C)

Working Pressure: 1" to 90psi (6 Bar),

1 1/4" to 75psi (5 Bar), 1 1/2" to 65psi (4.5 Bar),

2" to 50psi (3.5 Bar)

Style No: 2019BE



### Novaflex 3258

#### Tank Truck Crush & Kink Resistant Petroleum Suction & Discharge Hose

Special kink and crush resistant version of Novaflex 3253 design, utilizing a multi-ply construction with dual monofilament helix rods. Excellent for use in those demanding abusive situations.

#### Construction:

Tube: Nitrile resistant to 55% aromatic fuels

Reinforcement: Multiple plies of tire cord with dual monofilament helix, static wire

Cover: Black oil and abrasion resistant compound

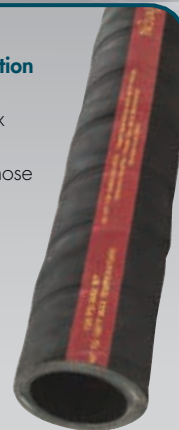
Length: 100 ft (30.5m)

Temperature Range: -40°F (-40°C) to +180°F

(+82°C)

Working Pressure: 200psi (14 Bar)

Style No: 3258



# Novaflex® Industrial Rubber Hoses

## Petroleum Hose

### Novaflex 3260

#### Tank Truck Hose

A very flexible economical, lightweight designed for transfer of petroleum products. Excellent for use in oil field applications.

#### Construction:

Tube: Nitrile

Reinforcement: Multiple plies polyester tire cord and steel wire helix

Cover: Smooth black oil resistant cover

Length: 100 ft (30.5m)

Temperature Range: -30°F (-35°C) to +180°F (+82°C)

Working Pressure: 150psi (10 Bar)

Fuel Compatibility: Ethanol up to E85. Biodiesel up to B20



### Novaflex 3477

#### Novalite Tank Truck Hose

Recommended for the transfer of petroleum products with an aromatic content of up to 55%. Novalite has a unique design utilizing a flat corrugation design permitting extreme ease when flexing. Novalite is excellent for the transfer of other oily products, such as fats, greases, vegetable oil, hydraulic fluid and a wide range of chemicals. This hose takes a very little force to flex the hose as compared to other constructions.

#### Construction:

Reinforcement: Multiple plies of polyester tire cord with dual helix wire

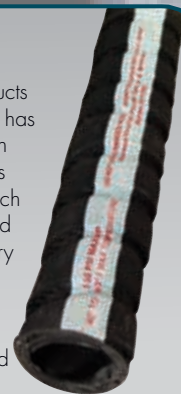
Cover: Black oil & abrasion resistant rubber

Length: 100ft (30.5m) [maximum]

Temperature Range: -40°F (-40°C) to +180°F (+82°C)

Working Pressure: 150psi (10 Bar)

Fuel Compatibility: Ethanol up to E85. Biodiesel up to B20



### Novaflex 3261

#### Dock Hose

This is a multi-purpose hose designed for suction and discharge applications. This dock hose is highly flexible and has an all weather cover which is resistant to oil, cuts, abrasion and gouges. The tube is resistant to petroleum products with aromatic content to 50%. Meets all US Coast Guard requirements for Dock/OS & D. hose.

#### Construction:

Tube: Nitrile

Reinforcement: Multiple plies polyester tire cord and steel wire helix

Cover: Smooth black oil resistant neoprene

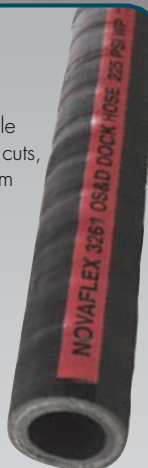
Length: Cut & 100 ft (30.5m) lengths

Temperature Range: -30°F (-35°C) to +200°F (+93°C)

Working Pressure: 225psi (15.5 Bar)

Fuel compatibility: Ethanol up to E85. Biodiesel up to B20

Style No: 3261BT



### Novaflex 3550

#### Heavier Duty Petroleum Discharge Hose

Designed to be flexible with a hose cover that provides extra abrasion resistance to meet the demanding requirements of industry. Handles all grades of petroleum with aromatic contents to 55%.

#### Construction:

Tube: Black Nitrile

Reinforcement: Multiple plies tire cord with static wire

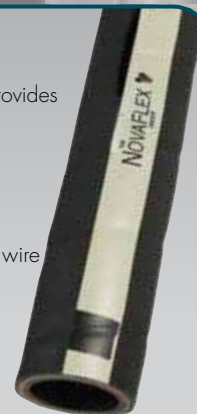
Cover: black oil and abrasion resistant rubber (Also available with red cover)

Length: 100 ft (30.5m)

Temperature Range: -30°F (-35°C) to +180°F (+82°C)

Working Pressure: 250psi (17 Bar)

Style No: 3550BT



### Novaflex 3265

#### Corrugated Dock Hose

Specially designed for barge unloading where flexibility and ease of handling are required. Special tire cord reinforcement with dual wire helix and corrugated cover enhances its characteristics.

#### Construction:

Tube: NBR

Reinforcement: Polyester tire cord, dual wire helix

Cover: Black NBR/PVC corrugated

Ends: Straight

Length 100 ft (30.5m) [max]

Temperature Range: -30°F (-35°C) to +200°F (+93°C)

Working Pressure: 225psi (15.5 Bar)

Style No: 3265



### Novaflex 3859BT

#### Nitrile Hot Tar & Asphalt Hose

Designed for the transfer of tar, asphalt, hot oils and other high temperature petroleum based products.

#### Construction:

Tube: Black high grade nitrile rubber

Reinforcement: Plies of polyester tire cord with helix wire

Cover: Smooth black abrasion resistant nitrile

Length: 100 ft (30.5m)

Temperature Range: -40°F (-40°C) to +350°F (+176°C)

Working Pressure: 150psi (10 Bar)

(intermittent service only)

Style: 3859BT





## Thermoplastic Material Handling

### Novaflex TPU

#### Urethane Heavy Duty Vacuum Hose

All extruded construction, lightweight alternative to cumbersome rubber hose. Designed specifically for transfer of abrasive materials under vacuum, from storage tanks, barges and tankers, including underwater applications in aquaculture; hatchery, pen transfer and stream release.

#### Construction:

Material: Urethane wall, urethane

encapsulated rigid PVC helix

Weight: 6" diameter = 2.5 lbs/ft

Length: 50 ft

Color: Extruded Transparent Blue TPU

Temperature Range: -50°F (-46°C) to +200°F (+93°C)

Working Pressure: 6" to 30psi (2 Bar)

Rated for full vacuum

Available with copper static wire. Style No: 9SFTPXHW



### Static Conductor\*

#### Medium Duty Material Handling Hose

A flexible conductive hose designed to allow for safe grounding during wet and dry material transfer operations.

This hose is lightweight with a smooth interior for optimum flow.

#### Construction:

Material: TPR co-polymer with rigid plastic external scuff guard

Diameters: 2" to 6"

Weight: 4" I.D. = 1.4 lbs

Length: Diameters 2" to 4" 100 ft,

6" Diameter 50ft

Color: Red with black scuff guard

Temperature Range: -40°F (-40°C) to + 200°F (+93°C)

Working Pressure: 6" to 30psi (2 Bar)

Style No: 9NFSCAP

\*Conductivity of hose should be tested regularly. Test with OHMS meter using conductive fittings inserted into each end of hose.



### Novaflex Yellow Jack

#### Pumper-Sanitation Hose

A smooth interior for optimum flow and unique crush resistance. An external wear rib prevents damage from abrasion. Used for liquid transfer; sanitary and cesspool. Suction; construction and quarry. Suction service; machine and tank liquid transfer and more.

#### Construction:

Material: Eva/Polyethylene co-polymer

Length: 1½" to 3" diameter: 10ft, 20ft, 25ft, 30ft,

50ft, 60ft. 4" diameter: 10ft, 20ft, 25ft

Temperature Range: -40°F (-40°C) to +140°F (+93°C)

Working Pressure: 3" to 20psi (1.3 Bar)

Not for steam service. Rated for full vacuum.

Style No: 9NFYLJK



### NovaFlex SF-TPU .045 thou wall

#### Urethane Leaf Collector Hose

An economical alternative to cumbersome rubber hose.

Polyurethane wall for superior abrasion resistance.

UV stabilized for outdoor use. Lightweight, good

flexibility, smooth interior for optimum flow.

Encapsulated wire helix. For use with leaf collection, medium duty material handling equipment, plant debris collection.

#### Construction:

Material: 0.045" translucent blue urethane, encapsulated wire

Diameters: 2" to 18"

Weight: 6" = 1.4 lbs/ft, 8" = 1.9 lbs/ft

Length: Up to 8" diameters 25ft & 50ft

10" diameters and up 25ft

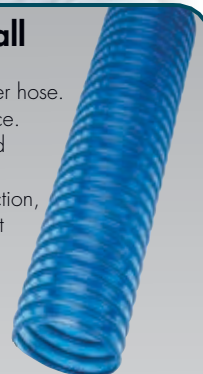
Compression Ratio: 2:1

Temperature Range: -65°F (-54°C) to +200°F (+93°C)

Colour: Blue with blue wear strip.

Also available in black & clear; minimum quantity required.

\*Available in 0.060" gauge clear 8" to 14" diameter.



### Novaflex HDAP

#### All Purpose Thermoplastic Rubber Hose

#### Wet And Dry Material Handling

Heavy duty thermoplastic inner tube with fully encapsulated external helix. Heavy wall for industrial use. Good chemical resistance.

Abrasion resistance for medium duty material handling, with smooth interior for superior product flow.

#### Construction:

Material: Thermoplastic rubber

Weight: 3" = 1.4 lbs/ft

Length: Diameters 2" to 4", 100ft lengths

Diameters 5" to 8", 50ft lengths

Temperature Range: -65°F (-46°C) to +200°F (+93°C)

Working Pressure: 6" to 30psi (2 Bar)

Color: Black with external helix

Rated for full vacuum.

Style No: 9SFHDAP



**Madvac**



# Novaflex® Industrial Rubber Hoses

## High Temperature Hose

### Novaflex 9155

#### Furnace Door Fiberglass Hose

Designed to withstand extreme external heat +1000°F (+378°C) from exterior in open hearth steel mill furnaces. Carries water to the furnace door.

#### Construction:

Tube: Green SBR non-conductive synthetic rubber.

Reinforcement: Plies of polyester tire cord

Cover: One ply of white fiberglass fabric.

Length: 100 ft (30.5m)

Temperature Range: up to +180°F (+82°C) Internal.

[+1000°F (+537°C) External]

Working Pressure: 1" to 300psi (20 Bar) , 2" to 250psi (17 Bar)

Style No: 9155GS

Available with Nomex® fabric cover

**Novaflex style 9156** for added abrasion resistance.



All guidelines should be clearly understood before specifying or using any Novaflex® product. Failure to follow recommended application information and recommended procedures may result in premature failure, resulting in bodily injury or property damage. Contact Novaflex® or your local Novaflex® distributor for assistance.

- Temperature may effect the service life of a hose assembly.
- Even though the hose has a specific temperature rating, time can also effect the coupling attachment method.
- The temperature rating of the hose should never be exceeded.
- Always have an inspection and test program for all hoses every six months.
- Always err on the side of safety. Remove a hose from service if there is any doubt about its serviceability.

**Coupled assemblies** - Novaflex® hoses have specific working pressures published. Never exceed the working pressure for any reason. The choice of coupling and the attachment method may cause the assembly to have a lower working pressure because the couplings may not be able to take the hose to its rated burst pressure.

**Chemical Hose** - Always consult the Novaflex® Chemical Resistance Chart to verify chemical compatibility. (See: [www.novaflex.com](http://www.novaflex.com)). Do not use chemicals at higher temperatures than shown on the Chemical Resistance Chart. Higher temperatures increase the effect of the chemicals on hose tubes. If temperatures above 125° F are applicable, please consult Novaflex®.

**Proper Care Use & Maintenance** - See Novaflex® Correct Care and Maintenance Guide form no 2003-1 (See: [www.novaflex.com](http://www.novaflex.com)).

**Hose Coupling** - Always use the NAHAD Assembly Guidelines for working pressure. Use Coupling Manufacturer's recommendations for attachment, application and testing procedures.

### Novaflex 5520

#### Red Low Pressure Non-Conductive Steam Hose 100psi

This flexible textile reinforced hose is ideal for transferring steam in medium duty applications. This is a non-conductive steam hose and should only be used where non-conductive hose is applicable.

#### Construction:

Tube: Red EPDM rubber

Reinforcement: Plies of fiberglass tire cord

Cover: Smooth Red weather and abrasion resistant EPDM rubber

Length: 100 ft (30.5m)

Temperature Range: up to +338°F (+170°C)

Working Pressure: 100psi (7 Bar)

Non-conductive.

Style No: 5520RE

**Novaflex style 5510** where an electrically conductive hose is required.

Available in black low pressure conductive steam



## Chemical Hose

### Novaflex 4200

#### EPDM Chemical Suction Hose

A medium duty chemical suction and discharge hose designed to meet the general needs of the industry.

##### Construction:

Tube: Black high grade EPDM

Reinforcement: Multiple plies of tire cord with dual helix wire

Cover: Blue EPDM

Length: 100 ft (30.5m)

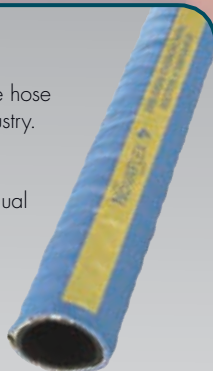
Temperature Range: -30°F (-35°C) to +225°F (+107°C)

Working Pressure: 150psi (10 Bar)

Consult chemical resistance chart

Not for steam service, can be open end steam cleaned

Style No: 4200BE



### Novaflex 4600

#### FEP Chemical Transfer Hose

Recommended for the transfer of products that require a hose tube with the highest level of chemical resistance.

The FEP "teflon-type" tube provides that extra margin of safety; with a white chemical resistant back up rubber stock for high adhesions. FEP transfer hose is excellent for tank truck, barge loading; storage tank transfer and in plant applications requiring flexibility and durability.

##### Construction:

Tube: FEP

Reinforcement: Multiple plies of polyester tire cord with helix wire

Cover: Blue EPDM (Available in red, black, grey, yellow, green, white with 400ft. order)

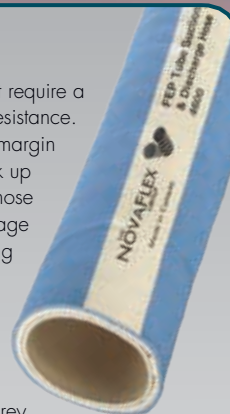
Couplings: Use only permanently attached couplings designed for Teflon-type type tube hoses

Length: 100 ft (30.5m)

Temperature Range: -40°F (-40°C) to +300°F (+148°C) *dependant on chemical conveyed.*

Working Pressure: 1" 450psi (31 Bar), 2" 300psi (21 Bar)

Consult chemical resistant chart. Style No: 4600CF



### Novaflex 4201

#### EPDM Chemical Discharge Hose

A high quality discharge hose designed to transfer common chemicals found in industrial service.

##### Construction:

Tube: Black high grade EPDM Weight polyethylene

Reinforcement: Multiple plies of tire cord

Cover: Blue EPDM (Available in red, blue, yellow black and grey, white & orange - with 400ft order)

Length: 100 ft (30.5m)

Temperature Range: up to -30°F (-35°C) to +225°F (+107°C)

Working Pressure: 150psi (10 Bar)

Consult chemical resistant chart.

Not for steam service, can be open end steam cleaned.

Style No: 4201BE



### Novaflex 4700\*

#### UHMW Chemical Suction & Discharge Hose

A lightweight flexible chemical transfer hose designed for almost every common industrial chemical used in industry today. Non-staining UHMW tube.

##### Construction:

Tube: Clear Ultra High Molecular Weight polyethylene

Reinforcement: Multiple plies of high tensile textile with monofilament helix

Cover: Green abrasion resistant EPDM (Available in red, blue, yellow black and grey, white & orange with 400ft order)

Length: 100 ft (30.5m)

Temperature Range: up to -40°F (-40°C) to +250°F (+121°C)

Working Pressure: ¾" to 2" 250psi (17 Bar).

2½" to 6" 200 psi (13 Bar)

Consult chemical resistant chart. Not for steam service, can be open end steam cleaned. Style: 4700CU



### Novaflex 4203BE

#### Diesel Exhaust Fluid (DEF) Transfer Hose

This is a 200psi working pressure rated hose specifically designed to transfer DEF fluids. This suction and discharge hose has an EPDM construction designed to be resistant to the effects of the media transferred. This hose is flexible and excellent for reel applications.

##### Construction:

Tube: Specially formulated EPDM

Reinforcement: Plies of cord and helix wire

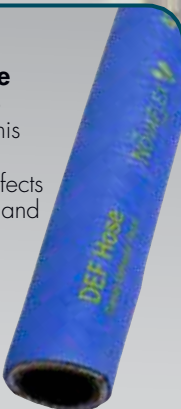
Cover: Blue EPDM

Length: 50 ft & 100 ft plain ends/boxed

Temperature Range: -40° (-40°C) to +210°F (+98°C)

Working Pressure: 200psi (13 Bar)

Style: 4203BE





# Novaflex® Industrial Rubber Hoses

## Chemical Hose

### Novaflex 4704\* Corrugated UHMWP Chemical Suction & Discharge Hose

A corrugated version of 4700 designed to offer added flexibility.

#### Construction:

Tube: Clear Ultra High Molecular Weight polyethylene.  
Reinforcement: Multiple plies of high tensile textile with dual helix

Cover: Green abrasion resistant green EPDM  
(Available in blue, yellow black and grey, white - with 400ft order)

Length: 100 ft (30.5m)

Temperature Range: up to -40°F (-40°C) to +250°F (+121°C)

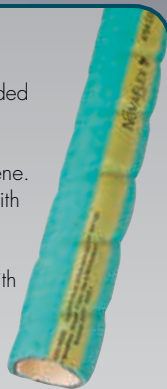
Working Pressure: 1½" - 2" 250 psi (17 Bar)

2½" - 3" 200psi (14 Bar)

Consult chemical resistant chart

Not for steam service. Can be open end steam cleaned

Style No: 4704CU



### Novaflex 4705\*

#### UHMW Crush & Kink Resistant Chemical Hose

Special kink and crush resistant version of 4700 design utilizing a multi-ply construction with dual special monofilament helix rods. Excellent for use in those demanding abusive transfer applications. To utilize the maximum temperature rating of the hose always permanently attach couplings

#### Construction:

Tube: Clear ultra high molecular weight polyethylene

Reinforcement: Multiple plies of high tensile textile with monofilament helix, static wire

Cover: Green EPDM rubber

Length: 100 ft (30.5m)

Temperature Range: up to -40°F (-40°C) to +212°F (+82°C)

Working Pressure: 200psi (13 Bar).

Style No: 4705CU



### Novaflex 4800/4878

#### Viton® Acid Suction Hose

#### Novaflex 4800 Red Smooth Nitrile Cover

#### Novaflex 4878 Black Smooth Nitrile Cover

Recommended for transfer of acid, solvents and chemicals either by pressure or gravity flow. Used as chemical transfer hose for loading tank cars, transport trucks and storage tanks.

#### Construction:

Tube: Viton® chemical and heat resistant rubber

Reinforcement: Plies of polyester tire cord with helix wire

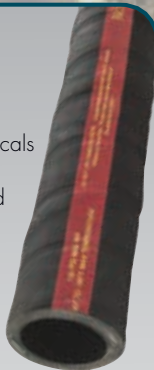
Cover: Smooth black weather and abrasion resistant nitrile rubber

Length: 100 ft (30.5m)

Temperature Range: -30°F (-35°C) to +250°F (+121°C)

Working Pressure: 200psi (13 Bar)

Consult chemical resistance chart. Not for steam service, can be open end steam cleaned. Style No: 4800BV/4878BV



The Novaflex Group® is a market leader through excellence in product innovation and design. The Novaflex Group® is a privately held company committed to continuous advancement in hose and connector solutions. Novaflex® has one of the broadest product ranges available in the hose and ducting marketplace, as well as the HVAC, Industrial Venting, Dry-Release™ Couplings and Commercial Exhaust Venting Systems. Products are sold in industries across North America and around the world.

**\*WARNING!** Elevated temperatures can change the chemical resistance rating of all tube compounds. Check the chemical resistance charts published by Novaflex to verify that the chemical to be transferred is rated for use with the specified tube at the temperature & concentrations listed. Most chemicals become more aggressive the higher the temperature, reducing the ability of the tube material to withstand them. Compatibility information is available from Novaflex. If no data exists, it is the users responsibility to determine if the hose is compatible with the chemical to be transferred. Never use hoses above the ratings listed by Novaflex.



## Abrasive Material Handling, Mining Hose

### Slurry King

#### Reusable Hose & Flange System

The easy handling and reusable quick-fastening flange system make installation a snap. Can be cut on site for immediate installation. No welding necessary.



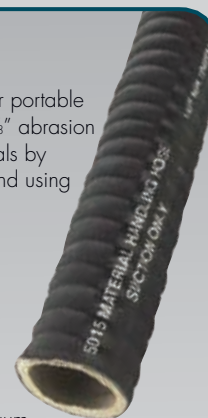
### Novaflex 5015

#### Material Handling Hose 1/8" Gum Tube

Lightweight material handling hose designed for portable and central industrial vacuum equipment. The 1/8" abrasion resistant tube is ideal for conveying light materials by gravity flow or at low working pressures. (Ground using helix wire to make static conductive).

#### Construction:

Tube: 1/8" Tan gum  
Reinforcement: Plies of fabric with helix wire  
Cover: SBR-Black corrugated  
Length: 50 ft (15.2m) Ends: Plain or soft cuffs  
Temperature Range: -40°F (-40°C) to +160°F  
Rated full vacuum to 6" diameters  
Available in heavier duty 1/4" gum tube full vacuum to 6" diameter for truck mount applications and other.  
Style 5016TG



### Novaflex 5000

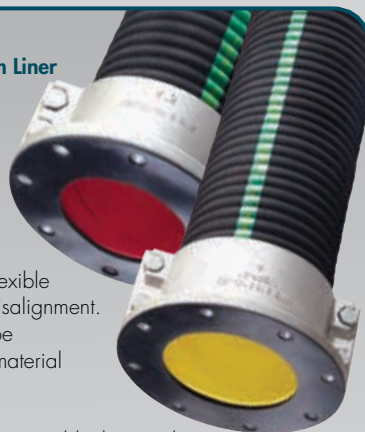
#### Slurry King Hose - Pure Gum Liner 150psi WP

Tough, versatile alternative to inflexible, cumbersome steel tubing. Absorbs system vibration and saves wear on equipment. Compensates for thermal expansion and contraction, reduces noise. Flexible connection for hard piping misalignment. Available with many inner tube compounds to meet specific material handling needs.

#### Construction:

Tube: Black abrasion, red abrasion, black natural or pure gum  
Reinforcement: Fabric and helix wire  
Cover: Ozone and ultra violet resistant  
Temperature Range: -40°F (-40°C) to +160°F (+71°C)  
Working Pressure: 150psi (10 Bar) (depending on compound)  
Style No: 5000PG  
Length: 60 ft (18.3m).  
Available in a variety of tube gauges ranging from: 1/8", 3/16", 1/4", 5/16", 3/8", 1/2"

**Novaflex 5001PG** also available in lower pressure version 100psi (7 Bar).



### Novaflex 5020

#### Industrial Vacuum Hose

Designed for light duty commercial vacuum cleaners used in foundries, factories and similar applications where a flexible and lightweight construction is preferred.

#### Construction:

Tube: 1/16" abrasion resistant.  
Reinforcement: Fabric with helix wire  
Cover: Black corrugated  
Length: 50 ft (15.2m)  
Ends: Plain. (Also available with cuffs.)  
Temperature Range: -40°F (-40°C) to +160°F (+71°C)  
Rated full vacuum to 4" Diameters (Depending on compound)  
Style No: 5020BG



### Novaflex 5164

#### Tan Gum Tubing

Wrapped finish, mandrel made tan gum tubing designed for a variety of industrial, construction and chemical applications.

#### Construction:

Tube: Tan gum  
Length 50 ft (15.2m)  
Temperature Range: -40°F (-40°C) to +140°F (+60°C)  
Durometer: 42 duro  
Available in EPDM; SBR; Nitrile and Neoprene.  
A large variety of diameters available ranging from 1 1/4" to 24" upon request.  
Style No: 5164TG





## Abrasive Material Handling, Mining Hose

### Novaflex 5331

#### Dredge Sleeves/ Sand Discharge Hose

A specially compounded abrasive resistant and static conductive tube. This hose is manufactured to very close O.D. tolerances.

#### Construction:

Tube: Black abrasion resistant synthetic rubber.

Reinforcement: Polyester tire cord.

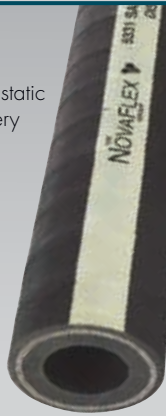
Cover: Black abrasion and weather resistant synthetic rubber.

Length: 20 ft (6.1m)

Temperature Range: up to +180°F (+82°C)

Working Pressure: 150psi (10 Bar)

Style No: 5331BS



### Novaflex 5772

#### Bulk Material Discharge Hose

Abrasion resistant hose designed for transferring dry bulk material such as cement, sand, lime, fertilizers, etc. Static dissipating tube is designed to resist cutting and abrasion. Cover is abrasion, age and weather resistant.

#### Construction:

Tube: Black abrasion resistant static conductive natural rubber blend.

Reinforcement: Multiple plies of tire cord.

Cover: Black synthetic rubber.

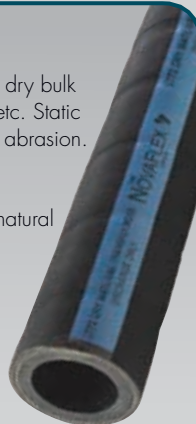
Length: 100 ft (30.5m).

Temperature Range: -10°F (-23°C) to +180°F (+82°C)

Working Pressure: 4" 75psi (5 Bar)

Style No: 5772BG

Available with 1/8" tube gauge, Style 5770BG; or 3/16" tube gauge, Style 5771BG



### Novaflex 5787

#### Concrete Pumping Hose

High pressure hose designed to handle the pumping of concrete, plaster or grout mixture. All purpose cover provides excellent flexibility and wear resistance to abrasive slurries.

#### Construction:

Tube: Abrasion resistant static dissipating SBR.

Reinforcement: tire cord

Cover: Black EPDM/SBR

Length: 100 ft (30.5m)

Temperature Range: -20°F (-29°C) to +160°F (+71°C)

Safety Factor: 2:1

Working Pressure: 2" to 800psi (55 Bar),

3" to 500psi (34.5 Bar) 4" to 400psi (27.5 Bar)

Style No: 5785BG



## Abrasive Material Handling, Mining Hose

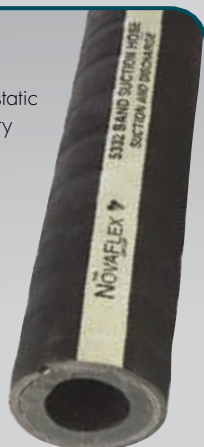
### Novaflex 5332

#### Sand Suction Hose

A specially compounded abrasive resistant and static conductive tube. This hose is manufactured to very close O.D. tolerances.

#### Construction:

Tube: Black abrasion resistant synthetic static conductive rubber  
Reinforcement: Polyester tire cord with helix wire  
Cover: Smooth black abrasion and weather resistant synthetic rubber.  
Length: 20 ft (6.1m)  
Temperature Range: Up to +180°F (+82°C)  
Working Pressure: 4" to 150psi (10 Bar), 6" to 12" to 100psi (7 Bar)  
Rated for full vacuum  
Style No: 5332BS



### Novaflex 7005

#### Mining Conduit Hose (Non Reinforced)

Recommended for electrical cable protection in mines and on mining equipment. Meets MSHA 2G-1C-34/3 flame-resistance requirements and is non-conductive. Construction maintains open I.D. for easy application.

#### Construction:

Tube: Black synthetic rubber  
Cover: Black synthetic rubber  
Length: 50 ft (15.2m)  
Ends: Plain  
Temperature Range: -25°F (-32°C) to +200°F (+93°C)  
Also available with fabric reinforcement for added service life.  
Style No: 7005BS  
**CAUTION:** Not to be used as an insulator.



### Novaflex AF Liner

A low pressure hose, designed to be extremely light weight, but offer high flexibility and abrasion resistance in vacuum and discharge applications.

#### Construction:

Tube: 1/8" ultra high abrasion resistant red natural rubber  
Reinforcement: Multiple plies of fabric with steel helix  
Cover: Rubberized fabric  
Temperature Range: 30°F (-35°C) to +140°F (+60°C)  
Working Pressure: 2" to 30psi (2 Bar), 4" to 25psi (1.7Bar), 6" to 16psi (1.1 Bar), 8" to 12psi (0.8 Bar),  
Available in many other tube compounds.  
Integral soft cuffs available upon request.  
Style No: 3MBAF2RA



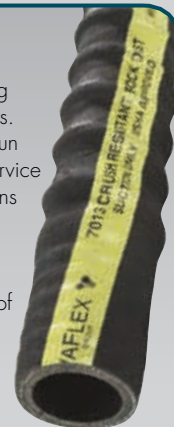
### Novaflex 7013

#### Crush Resistant Rock Dust Hose

Recommended for conveying rock dust from blowing machines in coals mines. Meets MSHA requirements. Hose will rebound when crushed by equipment or run over by rubber wheels. Highly recommended for service where heavy abuse is expected. Plastic rod maintains open I.D. in tight bends.

#### Construction:

Tube: Abrasion resistant, static-conductive  
Reinforcement: Helical plastic rod between 2 plies of fabric  
Cover: Black flame resistant, corrugated.  
Length: 50 ft (15.2m)  
Ends: Soft cuffs  
Temperature Range: -30°F (-35°C) to +180°F (+82°C)  
Working Pressure: 1 1/2" to 100psi (7 Bar), 2" to 85psi (6 Bar)  
Style No: 7013BG



### Novaflex 5500BE

#### Molten Sulphur Hose

Novaflex Molten Sulphur 5500BE is made for use in loading and unloading barges, ships and tank trucks. This is an engineered hose designed with a high temperature EPDM tube with built in nipples and flanges.

#### Construction:

Tube: Special high temperature EPDM  
Reinforcement: Multiple plies of polyester tire cord with helix  
Cover: Black EPDM  
Length: 100 ft (30.5m)  
Operating Temperature Range: +300°F (+149°C) (intermittent to 350°F (177°C))  
Working Pressure: 200psi (14 Bar)  
Style No: 5500BE



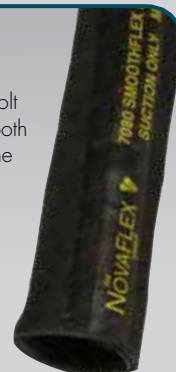
### Novaflex 7080

#### Smooth-Flex Mine Rock Dust Collector Hose

Recommended for mining dust collectors and roof-bolt drills where cover wear and drag is important. Smooth cover prevents excessive drag on moving arms of the equipment. Meets MSHA requirements.

#### Construction:

Tube: Abrasive-resistant, static-conductive  
Reinforcement: Helical wire with single ply of nylon fabric  
Cover: Black flame resistant, smooth  
Length 50 ft. Ends: Soft cuffs/plain.  
Working Pressure: 2" 50psi (3.5 Bar)  
Temperature Range: -30°F (-35°C) to +180°F (+82°C)  
Style No: 7080BG





# Novaflex® Industrial Rubber Hoses

## Abrasive Material Handling, Mining Hose

### Novaflex 7086

#### Superflex Dust Collector Hose

Recommended for mining dust collectors and roof-bolt drills. Corrugated cover gives good flexibility and bend radius. Meets MSHA requirements.

#### Construction:

Tube: Abrasive-resistant, static-conductive

Reinforcement: Helical wire with single ply of nylon fabric

Cover: Black flame resistant, corrugated.

Length: 50 ft (15.2m)

Ends: Soft cuffs

Temperature Range: -30°F (-35°C) to +180°F (+82°C)

Working Pressure: 1½" to 50psi (3.4 Bar),

2" to 45psi (3.1 Bar), 4" to 30psi (2 Bar)

Style No: 7086BG

**Novaflex 7080BG** Available in smooth cover



### Novaflex 143

#### PVC Conduit Hose

#### MSHA Flame Resistant

An excellent cable cover for the mining industry. Low cost, flexible and easy to install. Meets the requirements of MSHA 1C-14/2. Split lengthwise for simple installation.

#### Construction:

Tube: PVC

Cover: PVC

Length 50ft & 100ft

Temperature Range: -20°F (-29°C) to +120°F (+49°C)

Style No: 143WL



## Debris Collection / Boom Hose

### NovaFlex 5010YG Sludge Slayer™ Hose 1/4"

#### Novawear YG tube

Heavy duty material handling hose designed for portable and central industrial vacuum equipment as well as truck mounted applications.

The 1/4" *ultra* abrasion resistant Novawear YG yellow tube is designed to resist cutting, tearing and wear from abrasive media (non-oily) conveyed. This heavy helix wire is designed to resist kinking and crushing as well as provide full vacuum service. Increase your hose in those rugged applications with Sludge Slayer 5010YG.

Sludge Slayer is also available in the white Novawear VG tube. This 3/16" tube offers economy and provides very good abrasion resistance.



### Debris Collection / Boom Hose

#### NOVA-VAC™ 5049BG Boom Hose

Heavy duty corrugated vacuum hose. Corrugated outer cover for ease of handling. Designed for full vacuum boom applications. Smooth inner tube for enhanced material flow. Abrasion resistant tube for extended wear.

#### Construction:

Tube: Black smooth abrasion resistant rubber.

Available in RG and YG.

Reinforcement: Helix wire and textile.

Cover: Black abrasion resistant rubber.

Length: Standard lengths and made to order.

Temperature: -40°F (-40°C) to +160°F (+71°C)

Style No: 5049BG





# Novaflex® Industrial Rubber Hoses

## Hydro Vacuum / Street Sweeping Hose

### **Nova-Vac™ 5053YG**

#### **Tapered Connector Sleeve**

Designed to meet O.E.M.'s specifications for serviceability. This abrasion resistant smooth tube with full vacuum tapered sleeve is used to connect different size piping on vacuum truck applications for sound dampening and vibration elimination.

#### **Construction:**

Tube: Novaware YG smooth abrasion resistant rubber  
Reinforcement: Helix wire and textile  
Cover: Black abrasion resistant rubber  
Length: Standard lengths and made to order  
Temperature: -40°F (-40°C) to +160°F (+71°C)  
Also available in Black standard Novaware BG tube  
Style No: 5053YG



### **Nova-Vac™ 5052BG**

#### **Straight Connector Sleeve**

Designed to meet O.E.M.'s specifications for serviceability. This abrasion resistant smooth tube and full vacuum sleeve is used to connect different size piping on vacuum truck applications for sound dampening and vibration elimination.

#### **Construction:**

Tube: Black smooth abrasion resistant rubber  
Reinforcement: Helix wire and textile  
Cover: Black abrasion resistant rubber  
Length: Standard lengths and made to order  
Temperature: -40°F (-40°C) to +160°F (+71°C)  
Style No: 5052BG



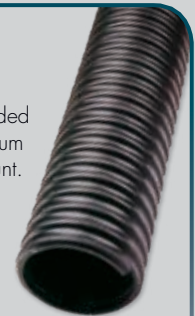
### **NovaFlex HDAP**

#### **All Purpose Thermoplastic Rubber Hose**

Heavy duty thermoplastic inner tube with fully encapsulated plastic, external wear strip. All extruded thermoplastic heavy wall hose. Designed for medium duty material handling where flexibility is paramount. Good chemical and temperature resistance with smooth interior for superior product flow.

#### **Construction:**

Material: Thermoplastic rubber  
Diameters: 2" to 8"  
Weight: 3" = 1.4 lbs/ft  
Length: Diameters 2" to 4" 100ft lengths,  
Diameters 5" to 8" 50ft lengths  
Temperature Range: -65°F (-54°C) to +160°F (+71°C)



## **Hose Wear**

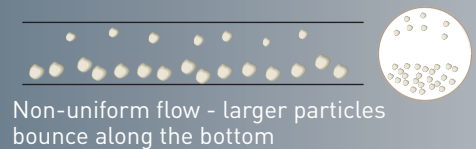
Abrasion is wear or undesirable removal of material from the surface of the hose tube. The degree of wear and or abrasion varies widely and is determined by some of the following factors:

- Material transferred (e.g. size, sharpness, size, distribution, hardness)
- Velocity - flow rate, turbulence
- Angle of material impact - affected by bend radius
- Slurry or dry
- Contamination elements - presence of oil or chemicals (PH value of slurry liquid)
- Temperature

To avoid sediment settling in a hose, mixture needs to keep flowing or turbulent. Deposits on the bottom of the conveying hose reduce efficiency and may cause clogging. Depending on the proportion of liquid to solids as well as the flow rate, material may be carried along in one of the following ways:



Uniform flow of homogeneous material



Non-uniform flow - larger particles bounce along the bottom



Non-uniform flow - with stationary or sliding bed of materials

## Engineered Hoses

### Plied Hose

Hose is built with a smooth or corrugated cover, the plies of reinforcement are uniform throughout the hose. Using various reinforcement types & combinations will effect the rated working parameters of the hose. A continuous helix wire runs the length of the hose. Some can have 2 helix wires.



### Duck & Rubber Flange

The tube and oil fabric reinforcement is turned up the face of the flange end. A split steel back up flange is fitted to the back of the fabric flange face. Hose and flange are integral. This design is used for light weight flanged connections and where there is or the media conveyed can damage standard steel ends.



### Steel Nipple (Rubber Lined)

This is a superior design to duck & rubber flanges. The rubber tube is built under the hose nipple and turned up the face of the flange. This is a stronger end connection. This design is used where there is abrasion or the media conveyed can damage the metal used on end connections. The steel back-up flange rotates to easily mate with the bolt holes on the joining flange, eliminating potential damage from hose torque.



### Gimball Hose

Hose is built with a smooth or corrugated cover, the plies of reinforcement are uniform throughout the hose. Special helix rings are built in to the carcass. This provides extra flexibility due to a flex point engineered between each helix ring.



### Steel Nipple

Built In Steel Nipples with either fixed or floating flanges. The strongest end connection design that can be used in higher pressure hoses. This design has the hose tube butted up against the hose nipple end, and continued over the built in nipple. This type end is used where the media conveyed is not damaging to the steel connections.



### Beaded End

A special angled build up at the hose end designed to provide a rubber to rubber seal. This type hose end uses metal split back-up rings (150# drilling) to fit the angle of the built up area and are used to pull beaded end tight to its connection forming a good seal.



### Novalok Ends

Designed for higher pressure than Duck and Rubber ends. Encapsulated steel flanges provides a complete rubber seal and eliminates a need for a gasket. All wetted surfaces are of the same compound as the hose lining.



### Hot Sulphur Dock Hose

Heavy Duty high temperature compounds combined in a special hose design to permit excellent flexibility and reliability. Smooth abrasion resistant tube, 6" to 12" ID – lengths to 100'. Built-in nipples & floating flanges, tested to USCG. Temperature Range: -40°F (-40°C) to +350°F (+176°F)



### Hot Tar Dock Hose

Heavy Duty high temperature compounds combined in a special hose design to permit excellent flexibility and reliability. High temperature oil resistant tube, 6" to 12" ID – lengths to 100'. Built-in nipples & floating flanges, tested to USCG. Temperature Range: -40°F (-40°C) to +350°F (+176°F)



# Novaflex® Industrial Rubber Hoses

## Custom Expansion Joints & Connectors

Novaflex® offers a wide range of end configurations as shown below in diameters ranging from ½" (1.27 cm) to 24" (61 cm).

Custom ends include: built-in nipple, built-in nipple with flanged end, built-in nipple with rubber faced flanged end, integral flange. Rubber compounds options are as follows: Natural rubber, SBR, EPDM, Nitrile, Neoprene, Hypalon\*, UHMW, XLPE, Viton\*, and FDA materials.

Reinforcement materials include: polyesters, nylons, fiberglass, Nomex\* and Kevlar\*.

Novaflex® manufacturing operations are capable of producing a broad range of custom hose constructions.

*\*Registered trademarks of E.I. DuPont Company*

### Built-in Nipples on Custom Made Dock Hose

3261, 3265, 3267 and 3268 Dock hose constructions can be supplied with built in nipples. All assemblies are tested to USCG standards. Hose can be built to be conductive or non-conductive. Fixed or floating flanges are standard.



### Novaflex Single Arch Expansion Joint

Engineered flexible connectors install easily in a variety of piping systems. This protects the system from damage due to vibration and stress created by thermal expansion and contraction. Unusual and non-standard sizes and styles can be custom built to specification.



### Novaflex Double Arch Expansion Joint

Connectors are custom made to protect your piping system from stress caused by vibration and thermal expansion and contraction. Both ends, full face flanged. Food grade. Available in a variety of materials and configurations.



### Novaflex Pinch Valve Sleeve

Ideal for use in valves for slurry and solids handling. Manufactured with a variety of rubber compounds and synthetic fabrics to meet the abrasion requirements and burst ratings of the desired application. Unusual and non-standard sizes and styles can be custom built to specification.



### Novaflex Bend Restrictors

A better way to move the tangent/flex point away from the end of the coupling system. Long lasting ozone resistant EPDM rubber blend bend restrictors provide increased service life on hose connections. Reduce risk of premature hose wear due to kinking and hose fatigue at tangent point.



# Custom Expansion Joints & Connectors

## **Novaflex Hump Hose**

Custom engineered transitory connector for use in venting applications where vibration or thermal expansion and contraction is present. Extremely flexible and ideal for applications up to +600°F. Available in custom polymers and configurations.



## **Novaflex Street Sweeper - Leaf Collector**

Outstanding for leaf collection and light vacuum applications on street cleaning equipment. Custom designed to exact specifications.



## **Novaflex Spool Piece**

Connectors are custom made to meet individual requirements. Full faced flanged by beaded end. Available in many polymers. Non standard and unusual sizes also available.



## **Novaflex Multiflex Connector**

These connectors install easily into a variety of piping systems. This protects the system from damage due to vibration and movement. Available in a variety of materials and configurations to meet all piping system and fluid processing needs.



## **Novaflex Single Arch Bellow**

Flexible connectors engineered to customer requirements to protect piping systems. Single arch with soft cuffs Available in a variety of materials and configuration



## **Novaflex Multiflex Connector**

Heavy duty high temperature. These connectors install easily into a variety of piping systems. This protects the system from damage due to vibration and movement. Available in a variety of materials and configurations to meet all piping system and fluid processing needs.



## **Novaflex Double Arch Bellow**

Custom engineered connectors install easily into a variety of piping systems. Soft cuffs at both ends. Available in a variety of materials and configurations according to application.



## **Novaflex End Configurations**

Custom made to suit any piping system. Both ends are flanged. Available in a variety of materials and configurations. Non-standard sizes are our specialty



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