

Continental 
The Future in Motion



Industrial Hose

2015 Industrial Hose Brochure

www.contitech.us

ContiTech

Everything You Need

Flexsteel® 250 EPDM-20 steam hose

With a maximum operating pressure of 250 psi and temperature range of -40°F to 450°F (-40°C to 232°C), Flexsteel 250 steam hose exceeds the RMA safety standard and makes steam operations more secure and user-friendly.



Extremeflex™ Petroleum Transfer

An extremely flexible and lightweight hose for use in tank truck and drilling operation to transfer diesel, ethanol, gasoline, oil and petroleum-based products. Corrugated construction for lower drag coefficient and superior abrasion resistance.



Survivor® compound

Featuring 2X the life on average*, Survivor is one of the toughest cover compounds used on Continental ContiTech conveyor belts. It is able to withstand serious abuse and still last longer.

OILSAND

Excellent oil resistance plus abrasion resistance available as made to order with Hydrovalor and other material handling hoses



READY 2 GO

Ready 2 Go coupled hose assemblies

The R2G system has pre-coupled hose assemblies ready for delivery, so you wait less. And since it is available in seven different hose categories, you can rely on us to have the hose you need, when you need it.

*Based on lab results from DIN test with non-rotating head versus abrasion-resistant SBR compounds. Service life may vary depending on application conditions.



to Succeed

LT fuel oil delivery hose

Perfect for transfer and delivery of fuel oil and petroleum products for home delivery, commercial and industrial service, this hose is designed to stay flexible in cold temperatures and provide superior oil resistance.



Insta-Lock™ coupling hose systems

Insta-Lock coupling hose systems are designed with a cam & groove crimped coupling solution, developed to facilitate the use of crimped sleeves on industrial hoses by Continental ContiTech. Available in aluminum, 316 SS and brass. Part A, B, C, D, E, F, dust plug, dust cap and jump sizes to meet your application needs.



Flexsteel® Futura® low perm dispensing hose

Get superior, long-lasting service with multi-fuel capability. This hose is designed for use at filling stations to reduce permeation rates to 10 g/m²/day and improve air quality and emissions.



Crimping tools

We also offer a variety of crimping tools for on-site, in-vehicle and stationary applications. Available from 1/4" up to 12" ID to meet your industrial hose assembly needs.



Industry-Leading Technology,

Continental ContiTech specializes in the engineering and distribution of innovative, reliable and high-performance industrial hose products for a vast array of industrial, commercial and residential applications.

Air & Multi-Purpose General purpose



Industrial hoses with a wide range of multi-purpose applications from 1/4" to 2", -65°F to 275°F (-54°C to 135°C), compressors to jackhammers, 25 psi to 1000 psi

- › Arctic Ortac®
- › Arctic Ortac® Plus
- › Braidair™
- › F5™
- › Frontier™ 200
- › Frontier™ 250
- › Frontier™ 300
- › Flexsteel® Service Station Air
- › Gorilla®
- › Jackhammer 200
- › Jackhammer 300
- › MIL A-A-59565
- › Variflex™ 200
- › Variflex™ 300
- › Nitrogen
- › Ortac® 250
- › Ortac® 300
- › Ortac® 400
- › Pliovic® FG (FDA-3A)
- › Pliovic® GS
- › Pliovic® Plus 250
- › Service Station Air

Heavy duty



Industrial hoses with a wide range of multi-purpose applications from 1/4" to 2", -65°F to 275°F (-54°C to 135°C), compressors to jackhammers, 25 psi to 1000 psi

- › Prospector™ Air
- › Prospector™ Air Plus

- › Plicord® Air Green 400
- › Plicord® Super Rock Drill
- › Steel Air
- › Super Ortac®

Push-on



Specifically designed for the rigors of robotic, automated and pressurized applications.

Temperature ranges from -40°F to 200°F (-40°C to 93°C), textile reinforcement, 3/16" through 1" ID.

- › Insta-Grip™ 250
- › Insta-Grip™ 300
- › Insta-Grip™ HT
- › Insta-Grip™ TC
- › FLEXAGrip

Chemical Transfer



Engineered for reliable transfer of industrial chemicals and other solutions. Multiple cover color options, -40°F to 300°F (-40°C to 149°C), up to 200 psi WP.

- › Blue Flexwing®
- › Brown Flexwing®
- › Chem One™
- › DEF Transfer Hose
- › Fabchem™
- › Green XLPE
- › Hi-Per®
- › Orange Flexwing®
- › Plicord ExtremeFlex™ Brown
- › Plicord ExtremeFlex™ Purple
- › Purple Flexwing®
- › Viper®

Cleaning Equipment



Engineered for reliable transfer of industrial chemicals and other solutions. Multiple cover color options, -40°F to 300°F (-40°C to 149°C), up to 200 psi WP.

- › Fortress® 300
- › Fortress® 1000
- › Fortress® 3000
- › Galvanator® 3000
- › Gauntlet® 1500
- › Gauntlet® 3000
- › Gauntlet® 4500
- › Neptune™ 1500
- › Neptune™ 3000
- › Neptune™ 4001-R
- › Neptune™ 4500
- › Neptune™ 6000
- › SpiraFlow®
- › Whitewater®

Food

Food transfer



Designed to handle nearly every type of dry bulk food material or liquids in plant and truck applications. With temperature ranges from -40°F to 230°F (-40°C to 110°C), FDA/3-A/USDA approvals.

- › Exstatic®
- › ExtremeFlex™ Beverage
- › ExtremeFlex™ Beverage w/EZ Clean Cover
- › Gray Flextra® LT
- › Harvest®
- › Nutriflex® Suction & Discharge
- › Nutriflex® Static Wire

Reliability and Performance

- › Nutriflo® Suction & Discharge
- › Plicord® Blue Flour
- › Plicord® Brewline
- › Plicord® Clearwater
- › Plicord® ExtremeFlex™ Food Grade
- › Plicord® Gray Food
- › Plicord® Wineline
- › Pliovic® FG (FDA-3A)
- › Potable Water
- › Pyroflex® III Hot Air
- › Spirathane™ PT
- › Vintner™
- › White Flexwing®

Food washdown



Designed for use in pressure washers and cleanup in food processing plants. Microban® protection available. Working pressures up to 1000 psi. Microban is a registered trademark of Microban U.S.A.

- › Blue Fortress® 300
- › Fortress® 300
- › Fortress® 1000
- › Fortress® 3000
- › Gauntlet® 1500
- › Plicord® Washdown
- › Sani-Wash™ 300
- › Sani-Wash™ Plus 300
- › Super Sani-Wash™ 300

Marine



For multiple maritime applications. USCG and SAE approvals. From 1/4" up to 10" ID available.

- › Flexshield™ Marine Barrier Hose
SAE J1527 USCG Type A1-15 / ISO 7840
- › Marine Fuel Feed Vent Hose
USCG/SAE J1527 Type A2
- › Marine Fuel Feed Vent Hose
USCG/SAE J1527 Type B2
- › Marine Fuel Line
USCG/SAE J1527 & ISO 7840 Type A1
- › Plicord® Hardwall Wet Exhaust
- › Plicord® SAE J1527 Type A2 (fuel fill)
- › Plicord® Softwall Wet Exhaust

Material Handling Abrasives



For industrial blasting, suction and high-pressure applications. Temperature ranges from -40°F to 190°F (-40°C to 88°C) and from 1/2" to 18" ID.

- › Artrac®
- › Arvac™ SW
- › Blucor™
- › Blucor™ Couplings
- › Diversiflex®
- › Diversipipe® 75
- › Diversipipe® 150
- › Flexible Downspout
- › Nutriflex® Static Wire
- › Plicord® Blast (2 ply & 4 ply)
- › Plicord® Dredge Sleeve
- › Plicord® Hydrovator
- › Plicord® RVC
- › Plicord® Sand Suction
- › Plicord® XF Blast (2 ply & 4 ply)
- › Sandblast Deadman
- › Spiraflex® Air Seeder Hose
- › Spirathane™ HD
- › Spirathane™ LD
- › Spirathane™ PT

Bulk transfer



Designed for conveying air and materials in tank truck and plant services up to 150 psi with temperature ranges from -40°F to 400°F (-40°C to 204°C).

- › Black Softwall
- › Flextra® Dry Material
- › Plicord® Torridair® Hot Air Blower
- › Pyroflex® II Hot Air
- › Spiraflex® Mulch Blower
- › Tan Flextra®
- › Tan Flexwing®
- › Tan Softwall

Cement & concrete



Used to handle the transfer of sand, cement and other materials for construction industry applications. With textile or wire reinforcements and up to 1200 psi.

- › Allcrete® Textile
(plaster, grout & concrete)
- › Allcrete® Wire
- › PGC Placement Textile
- › Plicord® Auger Arc Piling
- › Plicord® Gunite (tan)



Mining



Designed for a variety of applications in above-ground & underground mining application. Temperature ranges from -40°F to 200°F (-40°C to 93°C) and working pressures up to 1000 psi.

- › Brigade® Mine
- › Flextra® Rock Dust
- › M&P Mine Conduit
- › Mine Spray
- › Plicord® Ammonium Nitrate HD
- › Plicord® Ammonium Nitrate Pellet
- › Plicord® Mine Conduit
- › Spiraflex® Cable Guard
- › Spiraflex® Red
- › Spiraflex® Rock Dust
- › Spiraflex® Yellow (Spiraflex 2700)
- › TunnelCote™ Rock Dust

Petroleum

Aircraft fueling



For fueling or defueling of public and private aircraft. API/NFPA/EN standards, from 1/4" to 4" ID.

- › Advantage™
- › Deadman Aircraft Refueling
- › Jet Ranger™
- › Platinum JAC Riser
- › Refueling Sensing
- › Wingcraft™

Petroleum dispensing



Heavy-duty hoses designed to dispense a wide range of fuels. Available in 5/8" to 1 1/2" ID.

- › Aggie Gas™
- › BC Cold Flex

- › BC Gasoline
- › BC Marina
- › DEF Dispensing Hose
- › Flexsteel® Futura® Ethan-ALL
- › Flexsteel® Futura®
- › Flexsteel® Futura® Low Perm
- › Flexsteel® Futura® HVR
- › Flexsteel® Futura® Vapor Assist
- › Maxxim™ Premier
- › Maxxim™ Premier Plus
- › Pacer™

Petroleum dock hose



For transfer of petroleum-based products between docks and ships. From 3" to 12" ID and temperature ranges from -25°F to 350°F (-32°C to 177°C).

- › Flexdock® 225
- › Flexdock® 300
- › Hot Tar & Asphalt Rough & Smooth Bore
- › Plicord® Dock Hose
- › Smooth Bore Dock 200
- › Smooth Bore Dock 300
- › Tanker Barge Discharge
- › Vapor Recovery Dock

Petroleum transfer



Designed for the transfer and delivery of fuel, oil and petroleum products for home delivery, commercial and industrial service applications. Working pressures up to 300 psi.

- › Arctic® ExtremeFlex™
- › Flexwing® Oilfield
- › Flexwing® VersaFuel
- › Hydrocarbon Drain Hose
- › Infinity™
- › Infinity™ HD
- › LT Fuel Oil Delivery
- › LW Arctic Tank Truck
- › Paladin®



- › Plicord® Arctic Flexwing®
- › Plicord® ExtremeFlex™ Petroleum
- › Plicord® Flexwing® Petroleum
- › Plicord® Fuel Discharge
- › Plicord® LW Black Flextra II
- › Plicord® Oilfield Frac
- › Plicord® Super Black Flexwing®
- › Plicord® Waste Mate
- › Pyroflex® Hot Tar & Asphalt II
- › Pyroflex® Hot Tar Wand
- › Red Flextra® 100
- › Red Flextra® 150
- › Redwing Fuel Oil
- › Spiraflex® Polyurethane Vapor Recovery

Spray Hose



All-purpose hoses designed for a variety of paint and agricultural spray applications. Working pressures up to 800 psi.

- › Mine Spray
- › NR Spray
- › Pliovic® Ag Spray (1800 & 2400)

Steam Hose



Designed for industrial applications requiring the transfer of steam. Flexsteel® available with crimped fitting solutions.

- › Flexsteel® 250 CB Extreme
- › Flexsteel® 250 CB Steam
- › Flexsteel® 250 Steam
- › Flexsteel® 250 EPDM-20
- › Heavy Duty Steam Pile Driver
- › MIL-DTL-29210E
- › Plicord® 250 Steam

Vacuum Hose



For a wide variety of applications including leaf collection, manhole blowers and exhaust fumes. Available in 1½" to 8" ID

- › Arvac™ SW
- › Plicord® HD Industrial Vacuum
- › Plicord® Vacuum (HD & LW)
- › Spiraflex® Ducting

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- › Spiraflex® Grassvac
- › Spiraflex® Vacuum
- › Spirathane® HD
- › Spirathane™ LD
- › Spirathane™ PT

LPG delivery pro hose



Designed for residential and commercial delivery and transfer applications of liquid propane gas. Working pressures up to 300 psi and temperature ranges from -40°F to 180°F (-40°C to 82°C).

- › LPG Delivery Pro®

Water Discharge hose



Designed for mining, construction, industry, agricultural and marine service applications. Temperatures up to 190°F (88°C) and available in 1/2" to 12" ID

- › Brigade® Mine
- › Contractors Water

- › Fire Engine Booster
- › Pathfinder® Garden Hose
- › Plicord® Furnace Door
- › Plicord® HD Water Discharge
- › Plicord® Versiflo® 125
- › Plicord® Water Discharge 150
- › Potable Water
- › Spiraflex® Black (Lay-Flat Super Duty Hose)
- › Spiraflex® Blue (Extra Light Duty)
- › Spiraflex® Gray (Light Duty)
- › Spiraflex® Red (Medium Duty)
- › Spiraflex® Yellow (Heavy Duty)
- › Sureline®

Suction & discharge Hose



Designed for mining, construction, industry, agricultural and marine service applications. Temperatures up to 190°F (88°C) and available in 1/2" to 12" ID.

- › Cold Blue
- › Green Hornet® XF
- › Flexwing® Water S&D
- › Spiraflex® 1600
- › Spiraflex® Aggie PVC
- › Spiraflex® HT
- › Versiflo® 150 Water S&D

Washdown hose



General-service hoses for a wide range of industrial, construction and agricultural water discharge. From 1/4" - 1½" ID and temperatures up to 200°F (93°C)

- › Fortress® 300
- › Fortress® 1000
- › Fortress® 3000
- › Gauntlet® 1500
- › Plicord® Washdown
- › Pulp & Paper Washdown
- › Sani-Wash™ 300
- › Sani-Wash™ Plus

- › Super Sani-Wash 300™
- › Sureline®

Welding Hose



Designed for a variety of welding services and applications for Grade R, RM, T. Available in single and Twin Line options.

- › Twin Line Welding (Grade R)
- › Twin Line Welding (Grade RM)
- › Twin Line Welding (Grade T)
- › Single Line Welding (Grade R)
- › Single Line Welding (Grade RM)
- › Single Line Welding (Grade T)
- › TIG Welding

See our line of Prospector™ hose in our Oil & Gas brochure.



Continental 
The Future in Motion



Selecting the right material in material handling application

<https://www.continental-industry.com>

Industrial Fluid Solution

Factors to considered when selecting the right tube

- › Abrasion resistance
- › Impact resistance
- › Tearing and cutting resistance
- › Heat buildup
- › Tensile resistance
- › Resilience (rebound)
- › Sliding resistance
- › Angle of impact
- › Particle size and weigh
- › Velocity
- › Dry or liquid material
- › Chemical compatibility

The key for the choice of the proper rubber material is in selecting the best combination of properties to suit the application. There is no single tube type that works best for all applications.

Options for tube materials

good, better... **BEST**

PURETEN suitable in applications where sharp material is present and any applications where sticking is an issue, particularly efficient for handling slurries

CHEMITUF suitable in applications where impact and cutting forces are present, particularly in dry applications

SURVIVOR the optimum material in abrasion resistance, dry or wet



OIL SANDS a very versatile material, a must when oil resistance is required

Abrasion Resistance

Abrasion resistance is usually a key characteristic in the selection of the right material.

Some conditions may affect the abrasion performance of a material, i.e. in the presence of oil the tube material may **swell** which will reduce its abrasion resistance.

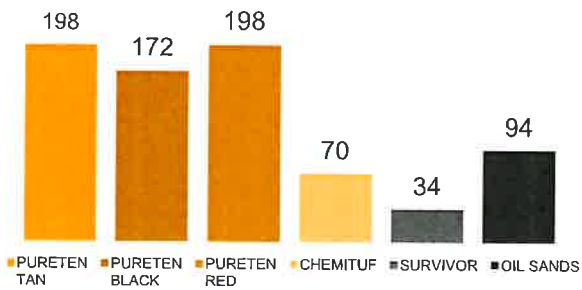
Other predominant factors like **angle of impact** (hose layout, sharp bend), velocity and particle characteristics will affect the performance of the tube material.

	Hardness (shore A)	Static dissipative
PURETEN (TAN)	40	NO
PURETEN (BLACK)	45	NO
PURETEN (RED)	40	NO
CHEMITUF	70	YES
SURVIVOR	50	YES
OIL SANDS	60	YES

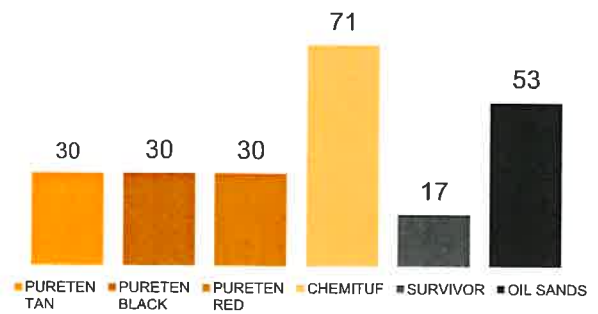
Abrasion Test – DIN 53516

mm³ loss – smaller value the better

Dry Abrasion



Wet Abrasion*



*chemical composition of the slurry should always be verified

General Overview

	Pureten	Chemituf	Survivor	Oil Sands	
Tear resistance	G	E	G-E	G-E	
Impact resistance	G	E	G	E	
Aging resistance	F	F	F	F	
Heat resistance	F	G	G	G	
Weathering, Ozone resistance	P	F	F	P	
Low temp flexibility	E	G	E	G	
Compression set	F-G	F	G	F	
Permeability	F	F	F	F	
Acid (dilute)	F-G	F	F	F	
Acid (concentrate)	P	P	P	P	
Oil	P	P	P	F	P: Poor
Alkali dilute	F-G	F-G	F-G	F	F: Fair
Alkali concentration	P	P	P	P	G: Good
					E: Excellent

Summary

- › In applications where tube wearing represent the main cause of hose retirement, other than the selection of the tube material, increasing the tube thickness within certain limits should result in longest service life.
- › Particles sizes, weight, height in vertical application, velocity and angle of impact will also need to be considered on the proper tube thickness selection.
- › Remember that this document represent a guide and cannot replicate all conditions of use so the best validation will always remain a field test.

ContiTech



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ContiTech. Engineering Next Level

As a division of the Continental Group, ContiTech is a recognized innovation and technology leader in natural rubber and plastics. As an industry partner with a firm future ahead of us, we engineer solutions both with and for our customers around the world. Our bespoke solutions are specially tailored to meet the needs of the market. With extensive expertise in materials and processes, we are able to develop cutting-edge technologies while ensuring we make responsible use of resources. We are quick to respond to important technological trends, such as function integration, lightweight engineering and the reduction of complexity, and offer a range of relevant products and services. That way, when you need us, you'll find we're already there.