USHOSE TITEFLEX Fluoropolymer Hose, Tubing and Assemblies



11th Edition

THE JACKSON ADVANTAGE

We offer engineered solutions that address vibration, thermal, or pressure-related problems as well as applications involving the transfer of liquids or gases. The hose and fittings included in this catalog are precisely manufactured and coupled to assure unequaled quality and immediate response to your needs.

Rapid quotation and delivery response to even the most difficult applications are our specialties. We stock and supply standard medium pressure, ultra high pressure, convoluted, smooth-bore, rubber-covered, and large bore fluoropolymer hoses with their associated fittings, adapters, and accessories.

This catalog includes our full product line of chemical transfer and smooth bore hoses as well as associated products.

THE FLUOROPOLYMER ADVANTAGE

Chemical Resistance - Inert to practically all commercial chemicals, acids, alcohols, coolants, elastomers, petroleum compounds, solvents, vinyls, synthetic lubricants, & hydraulic fluids.

Flex & Shock Resistance - Not affected by continuous flexing, vibration, or impulse - withstands alternating cold and heat cycling.

High Flow Rates - Low coefficient of friction with antistick properties insures continuous lower pressure drop during service with a good pressure rating and full vacuum.

Light Weight - Easier to move, handle, and install than rubber hose with a comparable burst pressure rating ideal as pigtail in gas handling and pneumatic systems where dew point must be low.

Non-Adhesive - Handles substances such as adhesives, asphalt, dyes, grease, glue, latex, lacquers, and paints - no carbon build up when used as a compressor discharge line.

Non-Contaminating - Will not contaminate material, fluid, or gas, non-conductive PTFE is FDA approved for food handling and pharmaceutical applications.

Resists Deterioration - Impervious to weather and can be stored for long periods without aging - will not age during service.

Steam Compatibility - Absorbs no moisture - rated for steam to 250 psi (406°F) - has low volumetric expansion characteristics - easy to clean and sterilize.

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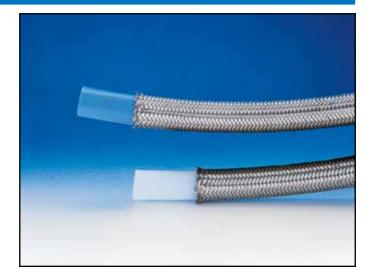
815 Forestwood Drive Romeovil¹ ^{IIII}inois 60446 Web Site: www.unitedflexible.com E-Mail: info@unitedflexible.com

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Medium Pressure Smooth Bore Hose of PTFE SB Series • SB-SERIES

Construction

The Jackson smooth bore hose is constructed of an extruded inner-core of virgin PTFE or carbon black static dissipative PTFE with type 304 stainless steel wire braid reinforcement. The braid acts as a pressure carrier and protective covering. Jackson smooth bore hose is found in many of the toughest service applications, handling "problem" fluids such as acids, solvents, fuels, and chemicals of all types. Available with thin or heavy wall tubing of PTFE (polytetrafluoro-ethylene).



Applications

- Chemical and Acid Transfer
- Pharmaceuticals
- Food Products
- Steam Lines/Tire Presses
- High Temperature Hydraulic/ Air Applications
- Pulp and Paper
- Fuel and Lubricant
- Glass Manufacturing
- Waste Water or Slurry

Benefits

- High working and burst pressures.
- Most economical of all hoses lined with PTFE.
- The low-friction surface of smooth bore hose provides for high flow rates.
- Easily drained and/or cleaned.
- Temperature Rating: -65° F (-54°C) to +450°F (+230°C)

Part N White	lumber Black	Nominal ID	-	itual ize OD	Maximum Working Pressure	Minimum Burst Pressure	Minimum Bend Radius	Approximate Weight/Ft.
S-3 TW	S-3TW BLK	3/16″	.125″	.23″	3000 PSI	12000 PSI	2.0″	.050 lbs.
S-4 TW	S-4TW BLK	1/4″	.19″	.30″	3000 PSI	12000 PSI	2.0″	.060 lbs.
S-5 TW	S-5TW BLK	5/16″	.25″	.37″	3000 PSI	12000 PSI	2.3″	.070 lbs.
S-5Z		5/16″	.24″	.45″	4350 PSI	17400 PSI	2.5″	.100 lbs.
S-6 TW	S-6TW BLK	3/8″	.32″	.40″	2500 PSI	10000 PSI	3.9″	.090 lbs.
S-7 TW		3/8″	.37″	.50″	2250 PSI	9000 PSI	4.5″	.105 lbs.
S-8 TW	S-8TW BLK	1/2″	.41″	.52″	2000 PSI	8000 PSI	4.7″	.115 lbs.
S-10 TW	S-10TW BLK	5/8″	.50″	.59″	1500 PSI	6000 PSI	5.3″	.150 lbs.
S-12 TW	S-12TW BLK	3/4″	.62″	.80″	1200 PSI	4800 PSI	6.5″	.225 lbs.
S-14 TW		3/4″	.77″	.89″	1100 PSI	4400 PSI	7.4″	.225 lbs.
S-16 TW	S-16TW BLK]"	.87″	1.05″	1000 PSI	4000 PSI	7.8″	.285 lbs.
S-16Z]"	.87″	1.11″	1250 PSI	5000 PSI	9.0"	.576 lbs.
S-18 TW]″	1.00″	1.18″	900 PSI	3600 PSI	9.8″	.335 lbs.
S-20Z		1-1/4″	1.13″	1.38″	1000 PSI	4000 PSI	11.0″	.585 lbs.

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Heavy wall available.

MasterCrimp Smooth Bore Fittings

US Hose manufactures and inventories over 500 sizes and styles of fittings. Fitting materials consist of carbon steel, stainless steel, brass, or a combination of materials.

We will manufacture custom fittings to your specifications. Contact our customer service department for more information about this service.

PERMANENT CRIMP FITTINGS



Male Pipe Fittings - Brass						
Part No.	Description-Hose Size					
0304TW 0504TW 0505TW 0306TW 0506TW 0508TW 0508TW 0510TW 0512TW 0516TW 0516Z	MNPT (1/8-27) - 4 MNPT (1/4-18) - 4 MNPT (1/4-18) - 5 MNPT (1/4-18) - 6 MNPT (3/8-18) - 6 MNPT (3/8-18) - 8 MNPT (1/2-14) - 8 MNPT (1/2-14) - 10 MNPT (3/4-14) - 12 MNPT (1-11.5) - 16					

Male Pipe Stainless



Part No.Description-Hose Size1704TWMNPT (1/8-27) - 42004TWMNPT (1/4-18) - 42005TWMNPT (1/4-18) - 51706TWMNPT (1/4-18) - 62006TWMNPT (3/8-18) - 6
2004TW MNPT (1/4-18) - 4 2005TW MNPT (1/4-18) - 5 1706TW MNPT (1/4-18) - 6 2006TW MNPT (3/8-18) - 6
1708TW MNPT (3/8-18) - 8 2008TW MNPT (1/2-14) - 8 2010TW MNPT (1/2-14) - 10 2012TW MNPT (3/4-14) - 12 2016TW MNPT (1-11.5) - 16 2016Z MNPT (1-11.5) - 16Z 2020Z MNPT (11/4-11.5) - 20Z

Male Pipe Carbon



Male Pipe Fittings - Carbon Steel					
Part No.	Description-Hose Size				
0904TW 1004TW 1005TW 0905TW 0906TW 1006TW 0908TW 1008TW 1010TW 1012TW 1016TW 1016Z 1020Z	MNPT (1/8-27) - 4 MNPT (1/4-18) - 4 MNPT (1/4-18) - 5 MNPT (1/8-27) - 5 MNPT (1/8-27) - 5 MNPT (1/4-18) - 6 MNPT (3/8-18) - 6 MNPT (3/8-18) - 8 MNPT (3/8-18) - 8 MNPT (1/2-14) - 8 MNPT (1/2-14) - 10 MNPT (3/4-14) - 12 MNPT (1-11.5) - 16 MNPT (1-11.5) - 16Z MNPT (11/4-11.5) - 20Z				

316 Stainless Steel also available

Female Swivel Stainless



Female Swivel Brass



Female Swivel Carbon



JIC 37°,	SAE 45° Female Swivel Fittings	JIC S	wivel Fittings - 303 Stainless	JIC Swivel Fittings - Carbon Steel		
Part No.	Description-Hose Size	Part No.	Description-Hose Size	Part No.	Description-Hose Size	
3504TW 3505TW 3506TW 3606TW 3508TW 3510TW 3512TW 3612TW 3516TW 3516Z	JIC/SAE SWIVEL (7/16-20) - 4 JIC/SAE SWIVEL (1/2-20) - 5 JIC (9/16-18) - 6 SAE SWIVEL (5/8-18) - 6 JIC/SAE SWIVEL (3/4-16) - 8 JIC/SAE SWIVEL (3/4-16) - 8 JIC/SAE SWIVEL (7/8-14) - 10 JIC (1 1/16-12) - 12 SAE SWIVEL (1 1/16-14) - 12 JIC (15/16-12) - 16 JIC (1 5/16-12) - 16Z	4003TW 4303TW 4004TW 3905TW 4005TW 4006TW 4008TW 4010TW 4010TW 4016TW 4016Z 4020Z	37 JIC SWIVEL (3/8-24) - 3 37 JIC SWIVEL (7/16-20) - 3 37 JIC/SAE SWIVEL (7/16-20) - 4 37 JIC SWIVEL (7/16-20) - 5 37 JIC SWIVEL (1/2-20) - 5 37 JIC SWIVEL (1/2-20) - 5 37 JIC/SAE SWIVEL (3/4-16) - 8 37 JIC/SAE SWIVEL (3/4-16) - 8 37 JIC/SAE SWIVEL (3/4-16) - 8 37 JIC/SAE SWIVEL (1/16-12) - 10 37 JIC SWIVEL (1 1/16-12) - 16 37 JIC SWIVEL (1 5/16-12) - 162 37 JIC SWIVEL (1 5/16-12) - 162	3004TW 2905TW 3005TW 3006TW 3007TW 3008TW 3010TW 3010TW 3016TW 3016Z 3020Z	37 JIC/SAE SWIVEL (7/16-20) - 4 37 JIC SWIVEL (7/16-20) - 5 37 JIC/SAE SWIVEL (1/2-20) - 5 37 JIC SWIVEL (9/16-18) - 6 37 JIC SWIVEL (9/16-18) - 7N 37 JIC/SAE SWIVEL (3/4-16) - 8 37 JIC/SAE SWIVEL (3/4-16) - 8 37 JIC/SAE SWIVEL (1/16-12) - 10 37 JIC SWIVEL (1/16-12) - 12 37 JIC SWIVEL (1/5/16-12) - 16 37 JIC SWIVEL (1/5/16-12) - 162 37 JIC SWIVEL (1/5/8-12) - 202	

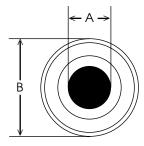
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Male Pipe Fittings - 303 Stainless

MasterCrimp Smooth Bore Fittings

SANITARY TABLE

В



MINI SANITARIES

Size	Α	В
1/2″	0.375	0.984
3/4″	0.625	0.984

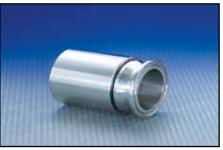
SANITARY FITTINGS

Mini Sanitary



Available Materials: 316 Stainless Steel

Sanitary



Available Materials: 316 Stainless Steel

STANDARD SANITARIES

Size	Α	В	Bore Thru
1/2″	0.875	1.984	0.375
3/4″	0.875	1.984	0.609
1″	0.875	1.984	0.844
1 1/2″	1.375	1.984	1.312
2″	1.870	2.5	1.75
3″	2.875	3.576	2.73

A = OPENING ID • B = FACE OD

CRIMP FITTINGS FOR SMOOTH BORE HOSE

MasterCrimp Assembly System

Fabricating Smooth Bore PTFE Hose Assemblies Is Now Fast, Easy & Reliable

- Complete fitting alloy selection in stock and ready for fast delivery:
 Carbon Steel - Brass - Stainless Steel -
- MasterCrimp saves on your inventory costs by offering you a single fitting that will fit both thin and heavy wall smooth bore hose.
- Simple assembly process minimizes tooling & labor costs.



After hose is cut to length, MasterCrimp ferrules are designed to slide on either by hand or with an optional collar assembly tool. One size collar fits both thin and heavy wall hose.

Easy insertion of the barbed hose end by hand. No time is wasted with finding and loading fittings in tool fixtures.

Straight crimp on the entire length of the ferrule. Jackson MasterCrimp fittings have a clean, smooth look that is appealing to all types of customers.

SPECIAL APPLICATION FITTINGS

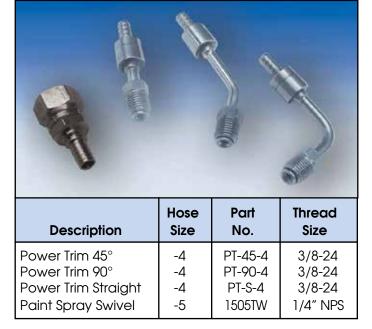
Brass Female Pipe







Hose	Part	Pipe	Hose	Part	Pipe
Size	No.	Thread	Size	No.	Thread
-5	0405TW	1/4″ - 18	-5	2405TW	1/4″ - 18



Power Trim fittings are available in 304 Stainless Steel. Paint Spray Swivel available in Carbon Steel.



Tube End Fittings - 316 Stainless					
Part No. Description-Hose Size					
4804TW 4806TW 4808TW 4812TW	1/4" OD Tube End - 4 3/8" OD Tube End - 6 1/2" OD Tube End - 8 3/4" OD Tube End - 12				

JACKSON SMOOTH BORE ASSEMBLIES



Our modern production cell for smooth bore assemblies provides fast turnaround and offers tremendous value to our customers business by eliminating the need for users to stock bulk products. Jackson inventories are purposely maintained at high levels so that we can respond in a short time to your installation requirements.

Depending on the application your assemblies can be tested with water or nitrogen gas with a complete certificate of test. Our in house services also include cleaning, tagging and bagging required for high purity transfer conditions.

37° JIC to NPT PIPE THREAD ADAPTERS

Adapters are available in brass, carbon steel, and 300 Series Stainless Steel. Additional adapters are available - consult the factory for details.

			2	EN.		9	P
Pipe Thread	JIC Straight Thread	JIC Dash Size	Male Adapter Part#	Male 90 Elbow Part #	Male 45 Elbow Part #	Female Adapter Part #	Female 90 Elbow Part #
1/8-27	3/8-24	3	1003-1	9003-1	4503-1	1003-1F	9003-1F
1/8-27	7/16-20	4	1004-1	9004-1	4504-1	1004-1F	9004-1F
1/4-18	7/16-20	4	1004-2	9004-2	4504-2	1004-2F	9004-2F
3/8-18	7/16-20	4	1004-3	9004-3	4504-3	1004-3F	9004-3F
1/8-27	1/2-20	5	1005-1	9005-1	4505-1	1005-1F	9005-1F
1/4-18	1/2-20	5	1005	9005	4505	1005-F	9005-F
3/8-18	1/2-20	5	1005-2	9005-2	4505-2	1005-2F	9005-2F
1/4-18	9/16-18	6	1006-1	9006-1	4506-1	1006-1F	9006-1F
3/8-18	9/16-18	6	1006-2	9006-2	4506-2	1006-2F	9006-2F
1/2-14	9/16-18	6	1006-3	9006-3	4506-3	1006-3F	9006-3F
1/4-18	3/4-16	8	1008	9008	4508	1008-F	9008-F
3/8-18	3/4-16	8	1008-1	9008-1	4508-1	1008-1F	9008-1F
1/2-14	3/4-16	8	1008-2	9008-2	4508-2	1008-2F	9008-2F
3/4-14	3/4-16	8	1008-3	9008-3	4508-3	1008-3F	9008-3F
3/8-18	7/8-14	10	1010-1	9010-1	4510-1	1010-1F	9010-1F
1/2-14	7/8-14	10	1010	9010	4510	1010-F	9010-F
3/4-14	7/8-14	10	1010-2	9010-2	4510-2	1010-2F	9010-2F
1/2-14	1-1/16 - 12	12	1012-1	9012-1	4512-1	1012-1F	9012-1F
3/4-14	1-1/16 - 12	12	1012	9012	4512	1012-F	9012-F
1-11-1/2	1-1/16 - 12	12	1012-2	9012-2	4512-2	1012-2F	9012-2F
3/4-14	1-5/16 - 12	16	1016-1	9016-1	4516-1	1016-1F	9016-1F
1 - 11-1/2	1-5/16 - 12	16	1016	9016	4516	1016-F	9016-F
1-1/4 - 11-1/2	1-5/16 - 12	16	1016-2	9016-2	4516-2	1016-2F	9016-2F
1 - 11-1/2	1-5/8 - 12	20	1020-1	9020-1	4520-1	1020-1F	9020-1F
1-1/4 - 11-1/2	1-5/8 - 12	20	1020	9020	4520	1020-F	9020-F
1-1/2 - 11-1/2	1-5/8 - 12	20	1020-2	9020-2	4520-2	1020-2F	9020-2F
1-1/2 - 11-1/2	1-7/8 - 12	24	1024	9024	4524	1024-F	9024-F
2 - 11-1/2	2-1/2 - 12	32	1032	9032	4532	1032-F	9032-F

Prefix Part Number "B" for Brass, "C" for Carbon Steel, and "S" for 300 Series Stainless Steel. Please consult the factory for additional sizes, shapes, and materials.



Construction

The Jackson Dense-Pac (1000 Series) hose is constructed of an inner core of carbon black static dissipative PTFE. A multitude of stainless steel wires are braided together, forming a single braid of protection. In larger sizes (-12 through -24), an additional layer of braid is added between the PTFE inner core and the outer braid. The post-sintered tube increases its density, reducing effusion in pneumatic applications. For liquid and hydraulic applications, a non-sintered PTFE tube provides lower costs without sacrificing performance. (DPN Series)

Fittings: Jackson's Dense-Pac comes standard with 300 series stainless steel JIC 37° female swivels. Jackson offers a wide selection of other styles for OEM and compressed gas applications.

Applications

- High Temperature Hydraulics Steel Mills
- High Pressure Chemical Transfer
- Two Part Reaction Injection Molding
- Hot Melt Glue (Boxes & Packaging)
- High Pressure Gas (Pigtail)
- Life Support System
- Oil Field Applications
- High Temperature Heated Hose Applications
- Urethane Transfer Applications

Benefits

- Extreme high pressure hose.
- Smooth bore improves flow rates.
- Resists kinking in service.
- High durability and unlimited shelf life.
- Sizes up to 1-1/2" I.D.
- Lightweight with tight bend radius.
- Temperature Rating: -65°F (-54°C) to +400°F (+204°C).

Part #	Nominal I.D.	-	tual ze O.D.	Max. Working Pressure*	Test Pressure	Min. Burst Pressure*	High Temp. Burst Pressure	Min. Bend Radius	Approx. Weight Per. Foot
S-4DP	1/4″	.22″	.39″	5000 PSI	10000 PSI	15000 PSI	12000 PSI	1.50″	.10 lbs.
S-6DP	3/8″	.31″	.49″	5000 PSI	10000 PSI	15000 PSI	12000 PSI	2.50″	.16 lbs.
S-8DP	1/2″	.40″	.62″	5000 PSI	10000 PSI	15000 PSI	12000 PSI	2.88″	.23 lbs.
S-10DP	5/8″	.50″	.73″	5000 PSI	10000 PSI	15000 PSI	12000 PSI	3.25″	.32 lbs.
S-12DP	3/4″	.62″	.99″	5000 PSI	10000 PSI	15000 PSI	12000 PSI	3.88″	.66 lbs.
S-16DP]″	.87″	1.27″	5000 PSI	10000 PSI	15000 PSI	9000 PSI	5.00″	1.02 lbs.
S-20DP	1-1/4″	1.12″	1.66″	5000 PSI	10000 PSI	15000 PSI	9000 PSI	12.00″	1.85 lbs.
S-24DP	1-1/2″	1.38″	1.90″	4000 PSI	8000 PSI	12000 PSI	9000 PSI	14.00″	1.91 lbs.

Please notify the factory if this hose will be used in a moisture-sensitive application.

*Minimum burst pressures calculated at 70°F. *Non-Impulse Applications. For impulse applications, working pressure is 3000 PSI. High temperature pressures calculated at 400°F; working pressure drops to 3000 PSI. Please contact the factory. For gas and breathing air applications specify DP post-sintered hose only.

Ultra High Pressure Hose of PTFE • 58-SERIES

Construction

58 Series hose is constructed of carbon black static dissipative innercore of PTFE with layers of spiral wrap between two layers of braid, which make this hose the premiere in heavy-duty ultra high pressure hose. The post-sintered tube increases its density, reducing effusion in pneumatic applications.

Jackson 58 Series comes standard with type 300 stainless steel JIC swivels. Male or female NPT adapters are available. Solid female and male NPT fittings in 1/4" are also an option.



Applications

- High Temperature Hydraulics
- High Pressure Phosphate Ester
 Applications
- High Pressure Chemical Transfer
- Two Part Epoxy (RIMM)
- Hot Melt Glue (Boxes & Packaging)
- High Pressure Gas Applications (Pigtail)
- Life Support Systems
- Oil Field Applications
- High Temperature Heated Hose Applications

Benefits

- Extreme high pressure hose.
- Smooth bore improves flow rates.
- Resists kinking in service.
- Unlimited shelf life.
- Suitable for impulse service.
- Temperature Rating: -65°F (-54°C) to +400°F (+204°C)

Part #	Nominal I.D.	Act Hose I.D.		Max. Working Pressure	Test Pressure	Min. Burst Pressure*	Min. Bend Radius	Approx. Weight Per. Foot
S-4HP	1/4″	.23″	.50″	6000 PSI	9000 PSI	24000 PSI	3.00"	.24 lbs.
S-6HP	3/8″	.30″	.62″	6000 PSI	9000 PSI	24000 PSI	5.00"	.40 lbs.
S-8HP	1/2″	.40″	.74″	6000 PSI	9000 PSI	24000 PSI	5.75"	.49 lbs.

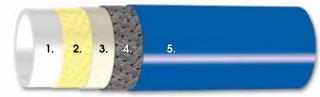
*Minimum burst pressures calculated at 70°F. For high temperature pressures, please contact the factory.

Ultra Extra High Pressure Fluoropolymer Hose



Basic Design

- 1. PFA or ETFE Inner Tubing
- 2. Kevlar Braid
- 3. Interlayer PTFE Tape
- 4. Stainless Steel Braid
- 5. Hytrel Jacket



Applications

Construction

Ultra Series extra high pressure hose is constructed with fluoropolymer innercores of non conductive ETFE or PFA. Unlike other types of hose that use multiple layers of stainless steel wire reinforcement, Ultra incorporates the use of one braided layer of high tensile aramid fiber and one layer of stainless steel. This value engineered constructions reduces weight and improves bend radius while increasing burst pressure. An integral abrasion resistant Hytrel jacket protects the exterior braid and has a smooth finished appearance. Ultra PFA hose has a black Hytrel jacket and the Ultra ETFE is differentiated with a blue Hytrel jacket. For more information on Hytrel properties please consult the our home page for the Hytrel Technical Bulletin.

Benefits

- Compressed Gas Cylinder Filling
- Nitrogen Purging
- Life Support Packs
- Hydraulic Phosphate Ester Transfer
- High Pressure Paint Equipment
- Epoxy/Adhesive Systems
- High Pressure Sanitary Service
- Meets FDA Requirements for food grade compatibility

- Extra Long Continuous Lengths Up to 150 Feet
- Low Effusion PFA & ETFE Fluoropolymer Innercore
- Proprietary Jackson Engineered HRSA Fitting Design Assures Integrity Of Hose To Fitting Joint
- Internal media Minus 40 F to +200F; not to exceed 180F ambient external temperature
- Fast Turnaround On Custom Made Assemblies
- Each Assembly Fully Pressure Tested (see table below)

Part Number	ID Inch	Nom- inal Size	Working Pressure	Burst Pressure	Hydro- static** Pressure Test	Nitrogen** Pressure Test	OD Inch	Minimum Bend Radius (Inch)
S-4 PFA/ETFE Ultra	0.22	1/4	6,000 PSI	24,000 PSI	9,000 PSI	6,000 PSI	.46	1.0
S-6 PFA/ETFE Ultra	0.31	3/8	6,000 PSI	24,000 PSI	9,000 PSI	6,000 PSI	.54	2.0
S-8 PFA/ETFE Ultra	0.40	1/2	6,000 PSI	24,000 PSI	9,000 PSI	6,000 PSI	.71	2.3

• Ultra ETFE for helium and hydrogen gas transfer

• For oxygen gas use Ultra PFA ; Ultra ETFE is not recommended for oxygen service

• For gas applications assemblies are pressure tested with nitrogen at 6000 PSI, for fluid transfer each hose assembly is hydrostatically pressure tested at 9000 PSI.

Rubber Covered Hose of FEP/PFA • JACK-CHEM

Construction

Jack-Chem has been custom engineered for lasting service in the most demanding applications. Jack-Chem starts with a smooth; non-stick FDA approved white FEP fluoropolymer, PTFE and PFA liners can be custom ordered. Two plies of synthetic rubber reinforced with horizontal fabric braid are permanently bonded to the FEP tube. A wire helix is included to support the shape in full vacuum service and to prevent kinking. This provides a grounding path for electrical charges through the exterior body of the hose. The entire hose is protected by an abrasion resistant EPDM cover that will not fade or discolor with age and is also weather resistant.



FEP Liner flared over flange retainer face for continuous smooth media contact with FEP liner *White Fluoropolymers are FDA approved.

Applications

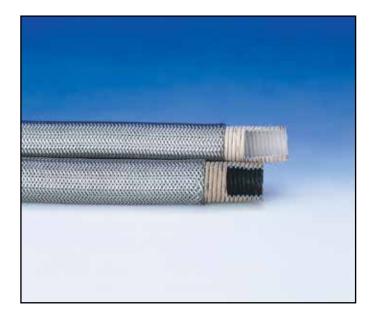
- Chemical Transfer
- Acid Transfer
- Pharmaceutical Manufacturing
- Photo Emulsions
- Food Processing
- Large Diameter Smooth Bore
- Tank Truck
- Slurry/Waste

Benefits

- Smooth Bore up to 2" I.D.
- Less turbulence created by smooth bore provides better flow rates.
- Thermal insulation.
- Easily drained/steam cleanable.
- Feel of a rubber hose versus handling braided wire.
- Rated up to 550 PSI working pressure.
- Temperature Rating: -40°F (-40°C) to +300°F (+148°C). Contact the factory for temps over 300°F.

Part Number White		ninal Size O.D.	Maximum Working Pressure*	Minimum Burst Pressure	Vacuum Rating *	Minimum Bend Radius	Approximate Weight per Ft.
JC-08	0.50″	0.87″	550 PSI	2200 PSI	Full	3.0"	.33 lbs.
JC-12	0.75" 1.25"		450 PSI	1800 PSI	Full	3.5″	.60 lbs.
JC-16	1.00″	1.50″	450 PSI	1800 PSI	Full	4.0″	.73 lbs.
JC-24	1.50″ 2.00″		400 PSI	1600 PSI	Full	8.5″	1.20 lbs.
JC-32	2.00″ 2.50″		300 PSI	1200 PSI	Full	10.5″	1.45 lbs.

* All pressures and vacuum ratings calculated at 70°F.



Construction

Jackson Industries WCV Series has a white, helical, convoluted inner tubing of multiple layers of PTFE, which is reinforced with PTFEimpregnated fiberglass and a stainless steel braid. The BCV series has a black, carbon filled, conductive inner tubing which serves to dissipate electrostatic charges.

Applications

- Chemical Transfer
- Acid Transfer
- Tire Mold Equipment
- Purified Water
- Reverse Osmosis Systems
- Fill Lines
- Air Compressors
- Waste Water & Slurry

Benefits

- Very flexible, requiring very little force to deflect.
- Tightest or smallest bend radius.
- High working pressures.
- Light weight per foot.
- Temperature Rating: -65°F (-54°C) to +400°F (+230°C)

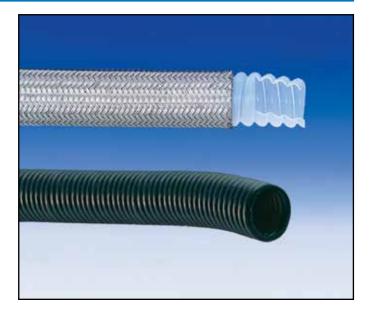
Part No White	umber Black	-	ninal e Size O.D.	Operating Pressure	Burst Pressure	Bend Radius	Approx. Weight Per Foot
WCV-08	BCV-08	0.50	0.76	1250	5000	1.50	0.20
WCV-10	BCV-10	0.62	0.91	1400	5600	2.00	0.38
WCV-12	BCV-12	0.75	1.07	1100	4400	2.50	0.33
WCV-16	BCV-16	1.00	1.34	1000	4000	3.00	0.43
WCV-20	BCV-20	1.25	1.57	1000	4000	3.50	0.53
WCV-24	BCV-24	1.50	1.81	750	3000	4.50	0.65
WCV-32	BCV-32	2.00	2.32	500	2000	5.25	0.73

All pressures are calculated at 70F; for higher temperatures check de-rating chart. For any applications requiring vacuum conditions please consult factory.

Open Pitch Extruded Convoluted Hose of PTFE • WCO/BCO SERIES

Construction

The WCO series is constructed of **extruded seamless** vacuum-formed white tube of openpitch convoluted PTFE. The BCO series consists of black conductive tubing for static dissipative purposes. Both are protected by high coverage stainless steel braid. The internal profile of the hose has been formed to support high flow rates and the helical design aids in self draining. All fittings have been specially designed for use on the hose to increase the service life of the assembly.



Applications

- Chemical Transfer
- Acid Transfer
- Thermal cycling or steam applications
- Tire mold equipment
- Steam
- Fill Lines
- Air compressors
- Applications requiring high flexibility
- Tank Truck

Benefits

- Open pitch aids self-draining and cleaning of hose.
- Suitable for thermal cycling or steam applications will not delaminate.
- Flexible design for easy installation.
- Steam cleanable.
- Light weight per foot.
- Can be autoclaved.
- High pressure ratings.
- Temperature Rating: -65°F (-54°C) to +450°F (+230°C)

Part N White	umber Black		ninal Size OD	Max. Working Pressure	Min. Burst Pressure	Vacuum Rating*	Min. Bend Radius	Approx. Weight Per Foot
WCO-06	BCO-06	0.37″	0.56″	1850 PSI	7400 PSI	28″	2.0″	.23 lbs.
WCO-08	BCO-08	0.50″	0.75″	1500 PSI	6000 PSI	28″	3.0″	.27 lbs.
WCO-12	BCO-12	0.75″	1.01″	1300 PSI	5200 PSI	28″	3.5″	.43 lbs.
WCO-16	BCO-16	1.00″	1.30″	1000 PSI	4000 PSI	28″	4.0″	.63 lbs.
WCO-20	BCO-20	1.25″	1.57″	900 PSI	3600 PSI	28″	4.5″	.75 lbs.
WCO-24	BCO-24	1.50″	1.89″	700 PSI	2800 PSI	28″	4.5″	.88 lbs.
WCO-32	BCO-32	2.00″	2.38″	500 PSI	2000 PSI	28″	5.0″	1.11 lbs.
WCO-48		2.91″	3.8″	100 PSI	400 PSI	None	12.0″	1.75 lbs.

*All pressures and vacuum ratings calculated at 70°F. *Consult factory for vacuum ratings at higher temperatures. For applications involving higher temperatures, please consult the factory.

CONVOLUTED & JACK-CHEM FITTINGS

THREADED FITTINGS

Male Pipe Hex



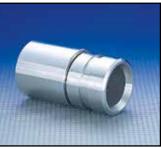
Part # Fitting Material Carbon Steel 10 20 Stainless Steel





Fitting Material Carbon Steel Stainless Steel

Butt Weld/Victaulic**



Fitting Material Part # Stainless Steel

91

US Hose manufactures and inventories over 500 sizes and styles of fittings. Fitting materials consist of carbon steel, stainless steel, combination, and polypropylene.

We will manufacture custom fittings to your specifications. Contact our customer service department for more information about this service.

*Special Fittings - Please consult the factory for pricing and availability.

**Pipe is standard, tube available. Please specify.

I-LINE FITTINGS



Part # **Fitting Material** 98 Stainless Steel

Female I-Line



Part # **Fitting Material** 99 Stainless Steel

SANITARY

Sanitary

Fitting Material Part # Part # 70 Stainless Steel 69

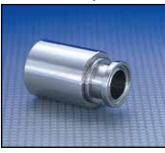


Fittina Material Stainless Steel

Other sanitary fittings available - contact the factory for additional fitting information.

Mini Sanitary

71



Part # **Fitting Material** Stainless Steel

CONVOLUTED & JACK-CHEM FITTINGS

CAM & GROOVE

Male C & G



Part # 73



Part # 83

Fitting Material Stainless Steel

Female Rigid C & G

Part # 88

Stainless Steel

Encapsulated C & G

Fitting Material

Part #

85

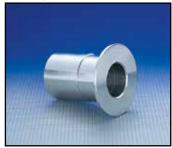
Encapsulated C & G



Fitting Material Stainless Steel

FLANGES

Flange Retainer



Part # 50





PFA Encapsulated

Flange Retainer

Fitting Material Stainless Steel

COMPRESSION

Tube Stub for Instrumentation Fitting*



Part # **Fitting Material** Stainless Steel 48

*Please consult the factory for pricing & availability.

POLYPROPYLENE FITTINGS

Polypropylene

Stainless Steel Collar

Male Pipe

P20



Sanitary

Female C & G



Part # **Fitting Material** P83 Polypropylene Stainless Steel Collar

Male C & G



Part # **Fitting Material** P73 Polypropylene Stainless Steel Collar

Polypropylene fittings have a pressure rating of 120 PSI and temperature rating of up to 180°F.

Stainless Steel Collar

Fitting Material

Polypropylene

US Hose • 800/473-0474 • FAX: 815/886-4550

Part #

P70

JACK-FLEX • Heavy Wall Hose of Convoluted PTFE with Flared-Tube



Construction

Jack-Flex is constructed from convoluted, heavy wall, seamless extruded white locked in a stainless steel braid. It offers the latest in hoses lined with PTFE with flared tubing. In this process, the convoluted tubing is passed through the flange retainer, and flared over the face of the flange, effectively isolating the flange from the transfer chemical. Jack-Flex is ideal for situations where internal corrosion of the fitting and contamination of the chemical is not tolerable.

Applications

- Thermal Cycling
- Transfer of almost all chemicals
- Acid Transfer
- Vibration Elimination
- Sanitary Applications
- Short Assembly Specification
- Applications requiring high flexibility

Available as factory-built and tested assemblies only.

Benefits

- Internal corrosion of fittings eliminated.
- No metallic contamination of transfer chemical from fitting.
- Simplified installation no gaskets required. Seal is made on flare.
- Helical design of hose aids draining and cleaning.
- Suitable for thermal cycling or steam applications will not delaminate.
- Reduced energy losses through fitting gives higher flow rates.
- Eliminates crevice corrosion from flange insert in hose.
- Temperature Rating: -65° F (-54°C) to +450°F (+230°C)

Part Number White	Nom Hose I.D.	-	Maximum Working Pressure	Minimum Burst Pressure	Minimum Bend Radius
JF-12	0.78″	1.08″	425 PSI	1700 PSI	3.0″
JF-16	0.97″	1.36″	350 PSI	1400 PSI	4.0″
JF-20	1.32" 1.70"		330 PSI	1350 PSI	5.5″
JF-24	1.49″	1.85″	275 PSI	1100 PSI	7.0"
JF-32	1.92″	2.43″	250 PSI	1000 PSI	8.5″
JF-48	2.91″ 3.80″		100 PSI	400 PSI	12.0″
JF-64	3.92″	4.95″	100 PSI	400 PSI	18.0″

All pressures calculated at 70°F. For applications involving higher temperatures, please contact the factory. Conductive Black is available on request.

Metal Hose Lined with Smooth-Bore PTFE • MTLC SERIES

Construction

The construction of an MTLC hose begins with flanged metal hose braided with stainless steel. A smooth inner liner of extruded PTFE is inserted into the hose, locked in place, and flared over the flange faces. This PTFE liner is stationary and will not move within the hose. Vent holes in the ends prevent gas build-up between layers.

Flanges for assemblies on pages 16-17 are available in carbon steel, 304 or 316 stainless steel.

Applications

- Acid Transfer
- Chemical Transfer
- Generally suitable for in-plant applications
- Vibration elimination in piping systems
- Large diameter smooth bore
- Slight misalignment in plastic or lined piping systems

Available as factory-built and tested assemblies only.

Benefits

- PTFE protection against chemical attack throughout the entire assembly length.
- Smooth liner no entrapment areas.
- High flow rates.
- Easily cleaned.
- Offers ruggedness in service.
- Temperature Rating: -65°F (-54°C) to +350°F (+176°C)

Part Number	Nom Hose I.D.		Max. Working Pressure*	Min. Burst Pressure	Vacuum Rating (HG)*	Approx. Weight Per Foot
MTLC-16	1.00″	1.64″	500 PSI	2000 PSI	26″	2.00 lbs.
MTLC-24	1.50″	2.33″	400 PSI	1600 PSI	26″	3.86 lbs.
MTLC-32	2.00″	2.88″	300 PSI	1200 PSI	24″	5.00 lbs.
MTLC-48	3.00″	3.94″	200 PSI	800 PSI	24″	5.25 lbs.
MTLC-64	4.00″	4.98″	150 PSI	600 PSI	20″	5.60 lbs.
MTLC-96	6.00″	7.00″	150 PSI	600 PSI	20″	13.00 lbs.
MTLC-128	8.00″	9.10″	125 PSI	500 PSI	20″	20.00 lbs.
MTLC-160	10.00″	11.20″	100 PSI	400 PSI	20″	26.00 lbs.
MTLC-192	12.00" 13.22"		90 PSI	360 PSI	20″	34.50 lbs.

*All pressures and vacuum ratings calculated at 70°F. Please consult factory regarding flexibility restrictions



PROTECTIVE HOSE COVERINGS

Jackson offers several types of protective hose coverings to help extend the service life of our Fluoropolymer hoses.



SPRING GUARD

To prolong the life of hose lines that are exposed to rugged operating conditions, such as severe flexing, Spring Guard reduces kinking and protects the hose from abrasion and rough handling.



SILICONE FIRESLEEVE

This fiberglass sleeving has a coating of silicone rubber bonded to it which offers flame resistance that will protect the hose from extreme temperature conditions.



HEAT SHRINK TUBING

To minimize hose O.D., heat shrinkable tubing is used in applications where cleanliness is essential, such as food and pharmaceutical processing. This provides easy cleaning of the outer hose surface.



ARMOR

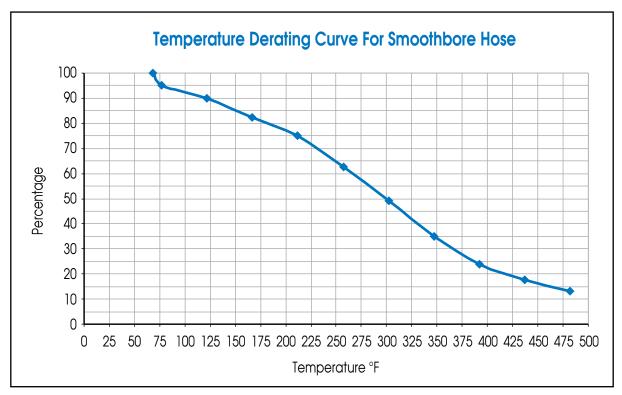
A highly flexible heavy duty metal casing to protect the hose against severe handling abuse and overbending. This can be applied over the entire length or in short sections at the end connection.



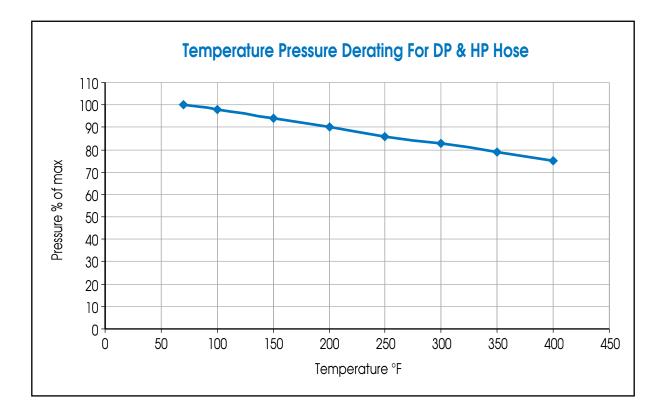
NYLON

Woven from thousands of nylon filaments into an abrasion-resistant sleeve, the nylon cover extends individual hose life in severe abrasive environments. As it is scuffed and worn, its filaments frizz, forming an even thicker, more protec-tive shield.

Contact Customer Service for more information about protective hose coverings.



For WCO / BCO Series - Decrease Working Pressure 1% For Every 2°F Above 250°F



MATERIAL COMPATIBILITY KEY:

1. Excellent 2. Acceptable with Limited Service Life 3. Not Recommended 0. No Information, Test Before Using. Consult factory for other than room temperature applications.

EFFUSION COMPATIBILITY KEY:

A.Will effuse and can displace breathable air in a confined space.

B. Potential to effuse and, with atmosphere, form chemicals that can corrode braid and fitting material. Especially significant when "vapor phase" exists, I.E., when they reach their boiling point of approximately 125°F at atmospheric pressure. Hose assemblies should be used in well-vented areas only.

C. Potential for effusion and can cause corrosion of the hose braid reinforcement and fitting material. These chemicals are all gases at atmospheric pressure and at temperatures of 56°F or lower. N/C. No change.

ELECTROSTATIC DISCHARGE:

In many industrial plants, there is an awareness that electrostatic discharge can be a hazard. This discharge is the result of two unlike materials coming into contact. This contact allows electrons from one material to move across its boundary and associate with the other. For example, electrons from steam can align with the wall of a PTFE hose. If both materials are good conductors of electricity, the positive and negative electrons flow back and forth between the chemical and hose wall, keeping them in balance. However, if one or both of them are insulators, the balance will be disrupted. As a result, chemicals such as gasoline or steam flowing through a white PTFE hose will deposit electrons on the wall of the innercore, building up static charge. When the charge exceeds the dielectric strength of the hose wall, dielectric breakdown occurs.

Ļ	FI	TTIN	G MA	TER	IAL	z	ų	FIT	TIN	5 MA	TER	AL	z	ų	FIT	TING	G MA	TERI	AL	z
CHEMICAL	PTFE	cs	304SS	316SS	BRASS	EFFUSION	CHEMICAL	PTFE	cs	304SS	316SS	BRASS	EFFUSION	CHEMICAL	PTFE	cs	304SS	316SS	BRASS	EFFUSION
Acetaldehyde	1	1	1	1	1	в	Asphalt	1	1	1	1	1		Calcium Hypochlorite	1	3	2	2	3	
Acetic Acid Glacial	1	0	2	1	3		Barium Carbonate	1	2	1	1	1		Calcium Nitrate	1	2	1	1	1	
Acetic Acid 30%	1	0	2	1	3		Barium Chloride	1	2	1	1	2		Calcium Silicate	1	1	1	1	1	в
Acetic Anhydride	1	3	2	2	3		Barium Hydroxide	1	3	1	1	3		Calcium Sulfate	1	1	1	1	1	
Acetone	1	1	1	1	1		Barium Sulfate	1	1	1	1	2		Calcium Sulfide	1	1	1	1	0	
Acetylene	1	0	2	2	2	С	Barium Sulfide	1	3	1	1	3		Cane Sugar Liquors	1	1	1	1	2	
Acrylonitrile	1	0	2	2	2		Beer	1	2	1	1	1		CarbolicAcid	1	3	1	1	3	
Alum Ammonium or Potassium	1	3	3	2	2		Beet Sugar Liquors	1	1	1	1	0		Carbon Dioxide	1	1	1	1	1	А
Aluminum Acetate	1	0	1	1	3		Benzene	1	1	1	1	1		Carbon Disulfide	0	2	1	1	2	
Aluminum Bromide	1	3	2	2	3		Benzenesulfonic Acid	0	3	2	2	2		Carbonic Acid	1	3	1	1	3	
Aluminum Chloride	1	3	2	2	3		Benzaldehyde	1	2	1	1	1		Carbon Monoxide	1	1	1	1	1	С
AluminumFlouride	1	3	2	2	3		Benzine	1	1	1	1	1	в	Carbon Tetrachloride	1	2	1	1	2	
Aluminum Hydroxide	1	0	1	1	1		Benzyl Alcohol	1	2	1	1	1		Castor Oil	1	1	1	1	1	
Aluminum Nitrate	1	3	1	1	0		Benzyl Benzoate	1	1	1	1	0		Caustic Soda	1	2	1	1	3	
Aluminum Salts	1	0	2	2	0		Benzyl Chloride	1	1	0	0	0		Cellosolve, Acetate	1	0	2	2	1	
Aluminum Sulfate	1	3	3	2	3		Bismuth Carbonate	1	1	1	1	0		Cellosolve, Butyl	1	1	1	1	1	
Ammonia, Anhydrous	1	1	1	1	0		Black Sulphate Liquor	1	2	2	1	3		Cellulube	1	1	1	1	1	
Ammonia, Aqueous	1	0	1	1	3		Blast Furnace Gas	1	1	1	1	1	С	Chlorine, Gaseous, Dry*	*	2	3	3	2	С
Ammonium Carbonate	0	1	1	1	0		Borax	1	2	1	1	1		Chlorine, Gaseous, Wet*	*	3	3	3	3	в
Ammonium Chloride	1	0	2	2	3		Bordeaux Mixture	1	0	1	1	0		Chlorine Trifluoride	0	3	0	0	0	С
Ammonium Hydroxide	1	2	1	1	3		Baric Acid	1	3	1	1	2		Chloroacetic Acid	1	3	3	3	3	
Ammonium Metaphosphate	1	1	1	1	0		Bunker Oil	1	1	1	1	1		Chlorobenzene	1	1	1	1	1	
Ammonium Nitrate	1	1	1	1	3		Butadine	1	1	1	1	1		Chlorobromomethane	1	1	1	1	1	
Ammonium Nitrite	0	0	1	1	3		Butane	1	1	1	1	1	С	Chloroform	1	1	1	1	1	
Ammonium Persulfate	3	0	1	1	0		Butter Oil	1	1	1	1	1		O-Chloronaphthalene	1	1	1	1	1	
Ammonium Phosphate	1	3	2	1	0		Butyric Acid	1	3	1	1	2		Chlorotoluene	1	1	1	1	1	
Ammonium Sulphate	1	3	1	1	3		Butyl Acetate	1	2	1	1	2		Chromic Acid	1	3	3	2	3	
Ammonium Thiocynate	1	3	3	1	0		Butyl Alcohol	1	1	1	1	1		Citric Acid	1	3	3	1	3	
Amyl Acetate	1	3	1	1	2		Butyl Amine	0	1	1	1	1		Cod Liver Oil	1	1	1	1	1	
Amyl Alcohol	1	2	1	1	1		Butyl Carbitol	1	1	1	1	1		Coke Oven Gas	1	1	1	1	0	
Amyl Chloride	1	1	1	1	1		Butyl Stearate	1	1	1	1	1		Compressed Natural Gas (CNG) ¹	0	1	1	1	2	A1
Amyl Chloronaphthalene	1	0	1	1	0		Butyl Mercaptan	1	0	1	1	0		Copper Chloride	1	3	3	1	3	
Amyl Naphthalene	1	0	1	1	0		Butraldehyde	1	0	0	0	1		Copper Cyanide	1	0	1	1	3	
Aniline 1	2	1	1	3			Calcium Acetate	1	1	1	1	1		Copper Sulfate	1	3	1	1	3	
Aniline Dyes	1	3	1	1	3		Calcium Bisulfate	1	0	2	1	3		Corn Oil	1	1	1	1	1	
Aniline Hydrachloride	1	3	3	3	3		Calcium Bisulfite	1	3	1	1	3		Corn Syrup	1	1	1	1	0	
Animal Fats	1	1	1	1	0		Calcium Carbonate	1	2	1	1	3		Cottonseed Oil	1	1	1	1	1	
Aqua Regia	1	3	2	2	3		Calcium Chlorate	1	2	2	1	2		Creosote	1	2	1	1	3	
ArsenicAcid	1	3	3	1	2		Calcium Chloride	1	3	2	1	2		Cresol	1	2	1	1	0	
Askarel	0	1	1	1	1		Calcium Hydroxide	1	3	1	1	3		Crude Wax	1	1	1	1	1	

CHEMICAL RESISTANCE DATA

_	FIT	TING	5 MA	TERI	AL	z	
CHEMICA	Ë	S	SS	SS	SS	EFFUSION	
В	PTFE	CS	304SS	316SS	BRASS	EFF	
Cutting Oil	1	1	1	1	1		Freon 22
Cyclohexane	. 1	. 1		. 1	. 1		Freon 113
Cyclohexanome	1	0	1	1	0		Freon 114
Cymene	1	0	0	0	1		Fuel Oil
Decaline	1	0	0	0	1		Fumaric Acid
Denatured Alcohol	1	1	1	1	1		Furon Furfura
Diacetone	1	1	1	1	1		Furfural
Diacetone Alcohol	1	1	1	1	1		Gallic Acid
Dibenzyl Ether	1	1	1	1	1		Gasoline
Dibutyl Ether	1	1	1	1	1		Glauber's Sa
Dibutyl Phthalate	1	1	1	1	1		Glucose
Dibutyl Sebacote	1	1	1	1	1		Glue
Dichlorobenzene	1	0	1	1	1		Glycerin
Diesel Oil	1	1	1	1	1		Glycols
Diethylamine	1	3	0	2	3		Green Sulfate
Diethyl Ether	1	1	1	1	1	В	nHexaldehy
Diethylene Glycol	1	1	1	1	1		Hexane
Diethyl Phthalate	1	0	1	1	1		Hexene
Diethyl Sebacate	1	0	1	1	1		Hexyl Alcoho
Di-Isobutylene	0	0	1	1	1		Hydraulic Oil
Di-Isopropyl Keytone	1	0	1	1	1		Hydrochloric
Dimethyl Aniline	1	0	0	0	1		Hydrochloric
Dimethyl Formamide	0	1	1	1	0		Hydrochromi
Dimethyl Phthalate	1	0	0	0	1		Hydroflouric
Dioctyl Phthlate	1	1	1	1	1		Hydrofluosili
Dioxane	1	1	1	1	1		Hydrogen, Ga
Dipentene	1	1	1	1	1		Hydrogen Pe
Ethanolamine	1	1	1	1	1		Hydrogen Su
Ethyl Acetate	1	1	1	1	1		Hydroquinon
Ethyl Acetoacetate	1	1	1	1	1		Isobutyl Alco
Ethyl Atrylate	0	1	1	1	0		Iso Octane
Ethyl Alcohol	1	1	1	1	1		Isopropyl Ac
Ethyl Benzene	1	1	1	1	1		Isopropyl Ald
Ethyl Cellulose	1	1	1	1	1		Isopropyl Eth
Ethyl Chloride	1	2	1	1	2		JP3 Fuel
Ethyl Ether	1	2	1	1	2		JP4 Fuel
Ethyl Mertaptan	1	2	0	0	2	В	JP5 Fuel
Ethyl Pentochlorobenzene	1	2	1	1	1		JP6 Fuel
Ethyl Silicate	1	1	1	1	1		JP8 Fuel
Ethylene Chloride	1	2	1	1	2		Kerosene
Ethylene Chlorohydrin	1	0	0	0	0		Ketones
Ethylene Diamine	1	0	1	0	1		Lacquers
Ethylene Glycol	1	2	1	1	1		Lacquer Solv
Fatty Acids	1	0	1	1	0		Lactic Acid
Ferric Chloride	1	3	3	3	3		Lard
Ferric Nitrate	1	3	1	1	0		Lead Acetate
Ferric Sulfate	1	3	1	1	3		Lead Nitrate
Ferrous Chloride	1	3	1	2	2		Lime Bleath
Ferrous Nitrate	1	3	1	1	3		Linoleic Acid
Ferrous Sulfate	1	3	1	1	2		Linseed Oil
Fluoroboric Acid	1	0	1	1	0		Lubricating C
Formaldehyde	1	2	1	1	2		Magnesium C
Formic Acid	1	3	2	1	2		Magnesium H
Freon 12	2	3	1	1	0	А	Magnesium S
Freon 21	2	3	1	1	0	А	Molic Acid

Ļ	FIT	AL	z			
СНЕМІСАІ	PTFE	cs	304SS	316SS	BRASS	EFFUSION
Freon 22	2	3	1	1	0	А
Freon 113	2	3	1	1	0	А
Freon 114	2	3	1	1	0	А
Fuel Oil	1	1	1	1	1	
Fumaric Acid	0	0	1	1	0	
Furon Furfuran	1	1	1	1	1	
Furfural	1	2	1	1	1	
Gallic Acid	1	3	1	1	0	
Gasoline	1	1	1	1	1	
Glauber's Salt	0	1	1	1	0	
Glucose	1	1	1	1	1	
Glue	1	2	1	1	1	
Glycerin	1	2	1	1	1	
Glycols	1	1	1	1	1	
Green Sulfate Liquor	1	1	1	1	0	
nHexaldehyde	1	1	1	1	1	
Hexane	1	1	1	1	1	
Hexene	· 1	. 1		. 1	. 1	
Hexyl Alcohol	1	1	1	1	2	
Hydraulic Oil, Petroleum	' 1	1	1	1	1	
Hydrochloric Acid, 15%	1	3	3	3	3	в
	1					
Hydrochloric Acid, 37%		3	3	3	3	В
Hydrochromic Acid	1	3	3	3	3	
Hydroflouric Acid, Concentrated	1	3	3	3	3	
Hydrofluosilicic Acid	1 **	0	2	2	3	•
Hydrogen, Gaseous		1	1	1	1	С
Hydrogen Peroxide, 70%	1	2	3	1	3	
Hydrogen Sulfide, Gaseous	1	3	2	1	3	С
Hydroquinone	0	1	1	1	0	
Isobutyl Alcohol	1	1	1	1	1	
Iso Octane	1	1	1	1	1	
Isopropyl Acetate	1	1	1	1	1	
Isopropyl Alcohol	1	1	1	1	1	
Isopropyl Ether	1	1	1	1	1	
JP3 Fuel	1	1	1	1	1	
JP4 Fuel	1	1	1	1	1	
JP5 Fuel	1	1	1	1	1	
JP6 Fuel	1	1	1	1	1	
JP8 Fuel	1	1	1	1	1	
Kerosene	1	1	1	1	1	
Ketones	1	1	1	1	1	
Lacquers	1	3	3	1	1	
Lacquer Solvents	1	3	3	1	1	В
Lactic Acid	1	3	2	1	2	
Lard	1	1	1	1	3	
Lead Acetate	1	3	0	1	1	
Lead Nitrate	0	- 1	1	1	0	
Lime Bleath	0	3	2	1	0	
Linoleic Acid	1	3	2	2	3	
Linseed Oil	י 1	1	2	2	1	
Lubricating Oils, Petroleum	1	1	1	1	1	
Magnesium Chloride	1	3	3	3	2	
Magnesium Hydroxide	1	1	1	1	0	
Magnesium Sulfate	1	1	1	1	1	
Molic Acid	1	2	2	1	0	

PUTUNE NUMENTALVERPUTUNE NUMENTALRecuric Chloride131334Mercury1111311Mercury11111111Methyl Acetate1111111111Methyl Acholo111 <th>RESISTAINC</th> <th></th> <th>D</th> <th>41</th> <th>A</th> <th>1</th> <th></th>	RESISTAINC		D	41	A	1	
NerrorNormalNormalNormalNormalMercury1111111Mersityl Oxide1111111Methyl Actata11111111Methyl Actata11	Ļ	FIT	TING	6 MA	TERI	AL	z
IncruyIn	CHEMICA	PTFE	cs	304SS	316SS	BRASS	EFFUSIO
Mesityi OxideIII <t< td=""><td>Mercuric Chloride</td><td>1</td><td>3</td><td>1</td><td>1</td><td>3</td><td></td></t<>	Mercuric Chloride	1	3	1	1	3	
Nethyl Acetate111<	Mercury	1	1	1	1	3	
Methyl AlcoholIII<	Mesityl Oxide	1	1	1	1	1	
NatureNatur	Methyl Acetate	1	2	1	1	1	
Nethyl BromideIIIIIIIMethyl Butyl KetoneII <tdi< td=""><td>Methyl Atrylote</td><td>0</td><td>1</td><td>1</td><td>1</td><td>1</td><td></td></tdi<>	Methyl Atrylote	0	1	1	1	1	
Nethyl Butyl KetoneIII<	Methyl Alcohol	1	1	1	1	2	
HethyIn<	Methyl Bromide	1	0	2	2	0	в
Hethylene Chloride111 </td <td>Methyl Butyl Ketone</td> <td>0</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td></td>	Methyl Butyl Ketone	0	1	1	1	1	
Methyl Ethyl Ketone (MEK)11	Methyl Chloride	1	1	1	1	1	в
Methyl Formate10111111Methyl Isobutyl Ketone111111111Methyl Salicylate111<	Methylene Chloride	1	1	1	1	3	
Nethyl Isobutyl Ketone11 <th< td=""><td>Methyl Ethyl Ketone (MEK)</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td></td></th<>	Methyl Ethyl Ketone (MEK)	1	1	1	1	1	
Methyl Methacrylate11111111Milk1111111111Mineral Oil11	Methyl Formate	1	0	1	1	3	в
Nethyl Salicylate11111111Milk111111111Mineral Oil1111111111Monochlorobenzene111 <t< td=""><td>Methyl Isobutyl Ketone</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td></td></t<>	Methyl Isobutyl Ketone	1	1	1	1	1	
Milk1311111111Mineral Oil111 <t< td=""><td>Methyl Methacrylate</td><td>1</td><td>1</td><td>1</td><td>1</td><td>0</td><td></td></t<>	Methyl Methacrylate	1	1	1	1	0	
Milk131111111Mineral Oil1111111111Monochlorobenzene111 </td <td>Methyl Salicylate</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td></td>	Methyl Salicylate	1	1	1	1	1	
Monochlorobenzene111111Monoethanolamine012111Naphtha122201Haphthalene1122101Naphthenic Acid11111111Nickel Acetate111111111Nickel Chloride13223111 <t< td=""><td>Milk</td><td>1</td><td>3</td><td>1</td><td>1</td><td>3</td><td></td></t<>	Milk	1	3	1	1	3	
Monoethanolamine10111111111111Naphtha111211	Mineral Oil	1	1	1	1	1	
Naphtha1121111Haphthalene122201Naphthenic Acid102101Natural Gas†011112A†Nickel Acetate132231Nickel Chloride1321321Nickel Sulfate1321323Nitric Acid, All Concentrations132231NitricAcid, Red Fuming133231Nitrogen, Gaseous1111111Nitrogen, Gaseous1331111Otig AAE11111111Otig AAE11111111Otig AAE11111111Otig AAE111111111Otig AAE1111111111Otig AAE1111111111Otig AAE11111111111Otig AAE1111111111<	Monochlorobenzene	1	1	1	1	1	
Haphthalene12220Naphthenic Acid10210Natural Gas†011111Nickel Acetate132231Nickel Chloride13213213Nickel Sulfate10321311Nitric Acid, All Concentrations133231Nitric Acid, Red Fuming1331111Nitrobenzene11111111Nitrogen, Gaseous111111111Nitrogen Celocatio13311111111Otyl Alcohol133111 <td< td=""><td>Monoethanolamine</td><td>0</td><td>1</td><td>1</td><td>1</td><td>1</td><td></td></td<>	Monoethanolamine	0	1	1	1	1	
Naphthenic Acid110210Natural Gas†011112A†Nickel Acetate111111111Nickel Chloride132132131Nickel Sulfate103213111 <t< td=""><td>Naphtha</td><td>1</td><td>2</td><td>1</td><td>1</td><td>1</td><td></td></t<>	Naphtha	1	2	1	1	1	
Natural Gas†01112A†Nickel Acetate1111111111Nickel Chloride13213213111 </td <td>Haphthalene</td> <td>1</td> <td>2</td> <td>2</td> <td>2</td> <td>0</td> <td></td>	Haphthalene	1	2	2	2	0	
Nickel Acetate1111111Nickel Chloride132231Nickel Sulfate1032102Niter Coke032231Nitric Acid, All Concentrations132231NitricAcid, Red Fuming133231Nitrobenzene1111111Nitrogen, Gaseous1111111Nitrogen Calseous1111111Octyl Alcohol1331111Olie Acid11111111Olive Oil11111111Outgen, Gaseous****11111111Olive Oil11111111111Outgen, Gaseous****111 <td< td=""><td>Naphthenic Acid</td><td>1</td><td>0</td><td>2</td><td>1</td><td>0</td><td></td></td<>	Naphthenic Acid	1	0	2	1	0	
Nickel Chloride13223Nickel Sulfate10213Niter Coke03223Nitric Acid, All Concentrations13223Nitric Acid, Red Fuming13323Nitrobenzene111111Nitrogen, Gaseous111111Nitrogen Telroxide000201Octyl Alcohol131111Olie Acid131111Olie Acid1311311Outer Oil1111111Outer Oil111111 </td <td>Natural Gas†</td> <td>0</td> <td>1</td> <td>1</td> <td>1</td> <td>2</td> <td>A†</td>	Natural Gas†	0	1	1	1	2	A†
Nickel Sulfate1102131Niter Coke032101Nitric Acid, All Concentrations132231Nitric Acid, Red Fuming133231Nitrobenzene1111111Nitrogen, Gaseous1111111Nitrogen Telroxide0111111Octyl Alcohol1311111Olie Acid11111111Olie Acid11111111Outgen, Gaseous****11111111Olie Acid1111111111Outgen, Gaseous****11<	Nickel Acetate	1	1	1	1	1	
Niter Coke03210Nitric Acid, All Concentrations13223Nitric Acid, Red Fuming133231Nitrobenzene1111111Nitrogen, Gaseous111114Nitrogen Telroxide011111Octyl Alcohol131111Olie Acid1111111Oliec Acid1111111Oxagen, Gaseous****1111111Olie Acid11111111Oute Oil11111111Oxagen, Gaseous****1111111Paint11111111Paintic Acid11111111Perchloric Acid111111111Perchloric Acid1111111111Perchloric Acid11111111111Perchloric Acid111111111111<	Nickel Chloride	1	3	2	2	3	
Nitric Acid, All Concentrations13223NitricAcid, Red Fuming13323Nitrobenzene111111Nitrogen, Gaseous111111Nitrogen Gaseous111111Nitrogen Telroxide000201Notrogen Telroxide131111Octyl Alcohol1311111Olic Acid11111111Oliec Acid13311111Outre Oil11111111Oxgen, Gaseous****11111111Paint1111111111Paintic Acid111<	Nickel Sulfate	1	0	2	1	3	
NitricAcid, Red Fuming133233Nitrobenzene1111111Nitrobenzene1011111Nitrogen, Gaseous1111111Nitrogen Telroxide000201n-Octane0131111Octyl Alcohol1331111Olic Acid1331111Olire Oil1331111Oxalic Acid1311111Ozone11111111Palmitic Acid11111111Perchloric Acid11111111Perchloric Acid111111111Perchloreethylene11111111111Phonol13111 <td< td=""><td>Niter Coke</td><td>0</td><td>3</td><td>2</td><td>1</td><td>0</td><td></td></td<>	Niter Coke	0	3	2	1	0	
Nitrobenzene111111Nitrogethane11111111Nitrogen, Gaseous11111111Nitrogen Telroxide000200n-Octane0111111Octyl Alcohol1111111Olit, SAE11111111Olite Acid11111111Okie Acid13111111Oxalic Acid11111111Oxale, Acid111111111Outgen, Gaseous***111111111Paint11111111111Paintic Acid11<	Nitric Acid, All Concentrations	1	3	2	2	3	
Nitroethane101111Nitrogen, Gaseous11111111Nitrogen Telroxide000201n-Octane01111111Octyl Alcohol11111111Olic SAE11111111Olice Acid11111111Olive Oil13111111Oxalic Acid11111111Oxalic Acid11111111Ozone111111111Palmitic Acid111111111Penchloric Acid1111111111Perchlorecthylene111	NitricAcid, Red Fuming	1	3	3	2	3	
Nitrogen, Gaseous1111111Nitrogen Telroxide000201n-Octane0111111Octyl Alcohol1311111Otyl Alcohol1311111Olic Acid1331111Oleic Acid1311111Olatic Acid1311311Oxalic Acid1111111Oxalic Acid1111111Ozone1111111Paint1111111Paintic Acid1111111Perchloric Acid1111111Perchlorecthylene1111111Phenol11111111Phorone11111111Pinene11111111Pinenoli11111111Pinene11111111Pinene1 <t< td=""><td>Nitrobenzene</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td></td></t<>	Nitrobenzene	1	1	1	1	1	
Nitrogen Telroxide000200n-Octane0111111Octyl Alcohol1311111111Otil, SAE111111111111Oleic Acid111111111111Olive Oil11 <td>Nitroethane</td> <td>1</td> <td>0</td> <td>1</td> <td>1</td> <td>1</td> <td></td>	Nitroethane	1	0	1	1	1	
n-Octane011111Octyl Alcohol131112Oil, SAE11111111Oleic Acid133121Olive Oil11111111Olive Oil11111111Oxalic Acid13111111Oxagen, Gaseous****11111111Paint111111111Paint111111111Perchloric Acid111111111Perchloric Acid1111111111Perchlorecthylene11	Nitrogen, Gaseous	1	1	1	1	1	А
Octyl Alcohol13112Oil, SAE1111111Oleic Acid133121Olive Oil11111111Olive Oil111111111Oxalic Acid1311111111Oxygen, Gaseous****1111111111Paint111111111111Paint11 <t< td=""><td>Nitrogen Telroxide</td><td>0</td><td>0</td><td>0</td><td>2</td><td>0</td><td></td></t<>	Nitrogen Telroxide	0	0	0	2	0	
Oil, SAE1111111Oleic Acid133121Olive Oil1111111Oxalic Acid13113113Oxalic Acid1311113113Oxalic Acid11111111AOzone111111111Paint111111111Paintic Acid111111111Penchloric Acid111111111Perchlorecthylene1111111111Phonol131111111111Phorone13111 <t< td=""><td>n-Octane</td><td>0</td><td>1</td><td>1</td><td>1</td><td>1</td><td></td></t<>	n-Octane	0	1	1	1	1	
Oleic Acid13312Olive Oil111111Oxalic Acid1311311Oxgen, Gaseous***111111AOzone1111111AOzone1111111APaint11111111Palmitic Acid1111111Peanut Oil1111111Perchlore Acid121111Perchloreothylene121111Phenol1311111Phorone1311111PineAcid11111111PineOil12111111Pine Oil12111111Pine Oil13220111Pine Oil11111111Pine Oil13330111Pine Oil13303301Pine Oil11 <td< td=""><td>Octyl Alcohol</td><td>1</td><td>3</td><td>1</td><td>1</td><td>2</td><td></td></td<>	Octyl Alcohol	1	3	1	1	2	
Olive Oil1111111Oxalic Acid13131313Oxygen, Gaseous****111111AOzone11111111Paint11111111Palmitic Acid1111111Peanut Oil1111111Perchloric Acid121111Perchloreethylene121111Phenol1311111Phorone1311111PineAcid1111111Phorone1311111PineOil1211111PineOil1111111PineOil133301Piting Solution, Chrome103301Potassium Acetate133011	Oil, SAE	1	1	1	1	1	
Oxalic Acid 1 3 1 1 3 1 1 3 Oxygen, Gaseous**** 1	Oleic Acid	1	3	3	1	2	
Oxygen, Gaseous**** 1 1 1 1 1 1 1 1 1 Ozone 1	Olive Oil	1	1	1	1	1	
Qzone111111Paint1111111Palmitic Acid1211111Panut Oil11111111Perchloric Acid102201Perchlorocthylene111111Petroluem1311311Phenol13113111PincAcid11111111Pinene11111111PinenOil11111111Plating Solution, Chrome103301Potassium Acetate103201	Oxalic Acid	1	3	1	1	3	
Paint111111Palmitic Acid121111Peanut Oil1111111Perchloric Acid102201Perchloroethylene1111111Petroluem13113111Phenol131131131Phorone111111111PineAcid131111111Pineno1111111111Pineno1111111111PineOil1033011111Plating Solution, Chrome10320111Potassium Acetate1111111111	Oxygen, Gaseous****	1	1	1	1	1	А
Palmitic Acid 1 1 1 1 1 1 1 Peanut Oil 1 1 1 1 1 1 1 1 1 Perchloric Acid 1 0 2 2 0 1 Perchloroethylene 1 1 1 1 1 1 1 Petroluem 1 1 1 1 1 1 1 1 Phenol 1 1 1 1 1 1 1 1 1 Phorone 1 1 1 1 1 1 1 1 1 1 PineAcid 1 3 1 </td <td>Ozone</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td></td>	Ozone	1	1	1	1	1	
Peanut Oil 1 <th1< th=""> <th1< th=""> <th1< <="" td=""><td>Paint</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td></td></th1<></th1<></th1<>	Paint	1	1	1	1	1	
Perchloric Acid 1 0 2 2 0 Perchloroethylene 1 2 1 <t< td=""><td>Palmitic Acid</td><td>1</td><td>2</td><td>1</td><td>1</td><td>1</td><td></td></t<>	Palmitic Acid	1	2	1	1	1	
Perchloroethylene 1 2 1 <th1< th=""> 1 <th1< th=""></th1<></th1<>	Peanut Oil	1	1	1	1	1	
Petroluem 1	Perchloric Acid	1	0	2	2	0	
Phenol 1 3 1 1 3 Phorone 1 <t< td=""><td>Perchloroethylene</td><td>1</td><td>2</td><td>1</td><td>1</td><td>1</td><td></td></t<>	Perchloroethylene	1	2	1	1	1	
Phorone 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 3 1 1 3 1 1 3 1 1 3 1 1 3 1 1 3 1 </td <td>Petroluem</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td></td>	Petroluem	1	1	1	1	1	
PiricAcid 1 3 1 1 3 Pinene 1	Phenol	1	3	1	1	3	
Pinene 1 <td>Phorone</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td></td>	Phorone	1	1	1	1	1	
Pine Oil 1 2 1 1 0 Plating Solution, Chrome 1 0 3 3 0 Potassium Acetate 1 3 2 2 0	PiricAcid	1	3	1	1	3	
Plating Solution, Chrome10330Potassium Acetate13220	Pinene	1	1	1	1	1	
Potassium Acetate 1 3 2 2 0	Pine Oil	1	2	1	1	0	
	Plating Solution, Chrome	1	0	3	3	0	
Potassium Chloride 1 1 2 2 2	Potassium Acetate	1	3	2	2	0	
	Potassium Chloride	1	1	2	2	2	

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CHEMICAL RESISTANCE DATA & TEMPERATURE/OPERATING PRESSURE

Ļ	FI	TTIN	G MA	TER	AL	z	Ļ	FIT	TIN	G MA	TERI	IAL	z	Ļ	FIT	TIN	G MA	TERI	AL	z
CHEMICAL	PTFE	cs	304SS	316SS	BRASS	EFFUSION	снемісал	PTFE	cs	304SS	316SS	BRASS	EFFUSION	снемісаі	PTFE	cs	304SS	316SS	BRASS	EFFUSION
Potassium Cyanide	1	2	1	1	3		Sodium Cyanide	1	2	1	1	3		TanicAcid, 10%	1	2	1	1	3	
Potassium Dichromate	1	3	1	1	0		Sodium Hydroxide, 40%	1	2	1	1	3		Tar, Bituminous	1	1	1	1	2	
Potassium Hydroxide, 30%	1	3	1	1	3		Sodium Hypochlorite	1	3	3	2	3		Tartaric Acid	1	3	1	1	3	
Potassium Nitrate	1	3	1	1	2		Sodium Metaphosphate	1	3	1	1	3		Terpineol	1	0	0	0	0	
Potassium Sulfate	1	1	1	1	2		Sodium Nitrate	1	1	1	1	2		Titanium Tertachloride	0	3	2	2	3	
Propane	1	1	1	1	1	А	Sodium Perborate	1	3	1	1	3		Toluene	1	1	1	1	1	
Propyl Acetate	0	1	1	1	1		Sodium Peroxide	1	3	1	1	3		Toluene Diisocyanote	0	0	0	0	0	
Propyl Alcohol	1	1	1	1	1		Sodium Phosphate	1	2	1	1	3		Transformer Oil	1	1	1	1	1	
Pyridine, 50%	1	1	1	1	1		Sodium Thiosulfate	1	3	1	1	3		Transmission Fluid, Type A	1	1	1	1	1	
Red Oil	1	2	2	1	2		Soybean Oil	1	1	1	1	0		Tributoxyethyl Phosphate	1	0	1	1	0	
Salicylic Acid	0	3	1	1	0		Stannic Chloride	1	3	3	3	3		Tributyl Phosphate	1	1	0	0	0	
Salt Water	1	3	3	2	3		Steam	1	3	1	1	1	А	Trichloroethylene	1	2	1	1	1	
Sewage	1	3	1	1	1		Stearic Acid	1	3	2	1	3		Tricresyl Phosphate	1	1	0	2	0	
Silicon Tetrafluoride (STF)	0	3	2***	2***	3	С	Stoddard Solvent	1	1	1	1	1		Tung Oil	1	1	1	1	1	
Silicone Greases	0	1	1	1	1		Styrene	1	2	0	2	2		Turpentine	1	1	1	1	2	
Silicone Oils	0	1	1	1	1		Sucrose Solution	1	1	1	1	1		Urea Solution, 50%	1	1	1	1	0	
Silver Nitrate	1	3	1	1	3		Sulfur, 200° F	1	3	1	1	3		Varnish	0	3	1	1	2	
Skydrol 500 & 7000	1	1	1	1	0		Sulfur Chloride	1	3	3	2	3		Vegetable Oils	1	1	1	1	1	
Soap Solutions	1	1	1	1	1		Sulfur Dioxide	1	2	1	1	1	С	Versilube	1	1	1	1	1	
Soda Ash	1	1	1	1	2		Sulfur Trioxide	1	3	2	2	3	в	Vinegar	1	3	1	1	3	
Sodium Acetate	1	3	1	1	0		Sulfurit Acid, 10%	1	3	2	3	3		Vinyl Chloride	1	2	1	1	3	С
Sodium Bicarbonate	1	3	1	1	2		Sulfurit Acid, 98%	1 2 3 2 3			Water	1	2	1	1	1				
Sodium Bisulfite	1	3	1	1	3		Sulfuric Acid, Fuming	1 3 3 2 3			Whiskey, Wines	1	3	2	1	3				
Sodium Borate	1	1	1	1	0		Sulfurous Acid, 10%	1 3 2 1 3			Xylene	1	2	2	2	3				
Sodium Chloride	1	2	2	2	1		SulfurousAcid, 75%	1 3 3 2 3		ZincAcetate	1	1	1	1	1					

Fitting material ratings are based on a fluid temperature of 70°F. Higher temperatures may accelerate adverse effects. Consult US Hose engineering.

1 Consult US Hose engineering

* Refer to page 17 for chlorine/bromine hose. Do not use stainless steel braided PTFE hose.

** Caution: explosive, consult US Hose engineering.

*** Highly corrosive, consult US Hose engineering

**** Special cleaning required. Consult US Hose engineering

SIZE	TEMPERATURE/OPERATING PRESSURE: Smooth bore thin wall PTFE Hose, Smooth bore Heavy wall PTFE Hose								
	65 F° 18.3 C°	100 F° 37.8 C°	150 F° 65.6 C°	200 F° 93.3 C°	250 F° 121.1 C°	300 F° 148.9 C°	350 F° 176.7 C°	400 F° 204.4 C°	450 F° 232.0 C°
-3, -4, -5	3000	2922	2810	2698	2586	2474	2362	2250	2138
-6	2500	2435	2341	2248	2155	2062	1968	1875	1782
-8	2000	1948	1873	1799	1724	1649	1575	1500	1425
-10	1500	1461	1405	349	1293	1237	1181	1125	1069
-12	1200	1169	1124	1079	1034	990	945	900	855
-16, -20Z	1000	974	937	899	862	825	787	750	713

SIZE	TEMPERATURE/OPERATING PRESSURE: Dense-Pac Hose								
	65 F° 18.3 C°	100 F° 37.8 C°	150 F° 65.6 C°	200 F° 93.3 C°	250 F° 121.1 C°	300 F° 148.9 C°	350 F° 176.7 C°	400 F° 204.4 C°	450 F° 232.0 C°
-4, -6, -8, -10, -12, -16	5000	4869	4683	4496	4310	4123	3937	3750	3563

SIZE	TEMPERATURE/OPERATING PRESSURE: WCV/BCV Hose								
	65 F° 18.3 C°	100 F° 37.8 C°	150 F° 65.6 C°	200 F° 93.3 C°	250 F° 121.1 C°	300 F° 148.9 C°	350 F° 176.7 C°	400 F° 204.4 C°	450 F° 232.0 C°
-3, -4, -5	1000	974	937	899	862	825	787	750	713
-6	750	730	702	674	646	618	590	563	535
-8	500	487	468	450	431	412	394	375	356



These products can be used to convey hazardous fluids, steam, and other dangerous materials which can cause personal injury or property damage if released through misuse, misapplication, or damaged. The user is responsible to analyze each application prior to specifying any product from this catalog. Due to the wide variety of operating conditions and applications, the user, through personal analysis and testing, is solely responsible for final product selection and meeting all performance, safety, and warning requirements. Careful selection, proper assembly and use of hose fittings and accessories is essential for the safe and warranted operation of the hose assembly.

Zinc Chloride

Zinc Sulfate

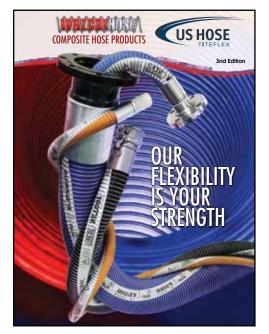
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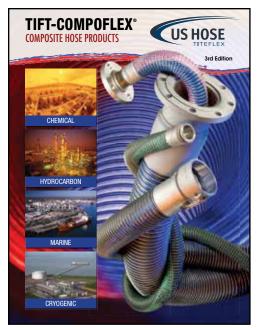
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Willcox Hose®



TIFT-Compoflex[®]

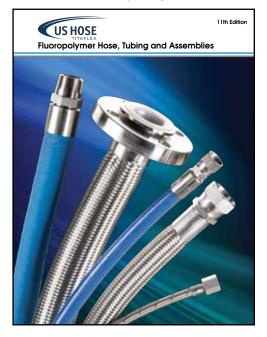




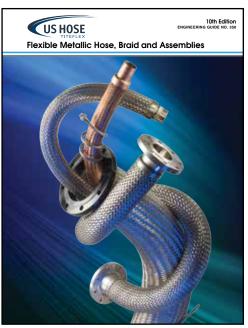
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