

Platinum Cured Silicone

Tubing, Hose and Fittings



PUREFLEX
HIGH-PURITY GROUP

PureFlex is a strategic business unit of ANDRONACO INDUSTRIES located in Kentwood Michigan. Pictured below is its new 170,000 sq. foot state of the art manufacturing facility.



PureFlex is a world leading manufacturer of high performance Silicone, Fluoropolymer and Composite products and technologies. We specialize in the manufacturing of fluid handling and sealing products specifically designed for Ultra-pure, Pharmaceutical and Chemical related industries.

Since 1994, we have earned a reputation for creating fluid handling and sealing products that are truly different. We create innovations -- Products that serve demanding applications better than before. PureFlex excels in its service, aggressive in its technology, bold in vision, and responsible in its regard for safe and dependable products.

PureFlex®

Silicone Hose & Tubing

PureFlex high purity Platinum cured silicone hose and tubing is manufactured from Biopharmaceutical grade elastomer meeting or exceeding Pharmacopeia USP 23 class VI, FDA 21CFR-177.2600, USDA and 3A criteria. Our hose and tubing is designed for maximum flexibility when utilized in fluid transfer, filling, and moving steam or air in pharmaceutical and biotech manufacturing processes. The additional features of high tear resistance, will impart no taste or odor and hydrophobic properties make it ideal for use in medical, semiconductor, cosmetics, food, beverage and dairy industries.

PureFlex silicone Hose and tubing is available in wire reinforced, Nomex braid reinforced and clear non-reinforced. Sizes from 1/16" to 6" diameter with a temperature range between -80°F (-62°C) to +500°F (260°C).



PLATINUM CURED SILICONE



PC65-W series

Wire reinforced

PureFlex PC65-W series hose has a ultra-smooth inside diameter core that is wrapped with Nomex reinforcement and a 316 s.s. wire. Designed for maximum flexibility in higher pressure and vacuum services.

FEATURES

- Available in 12 foot lengths
- (-)80°F (-62°C) to 500°F (260°C) temp. range
- Excellent flexibility
- No organic plasticizers, phthalates or latex additives
- Imparts no taste or odor
- Non-wettable (hydrophobic)
- Sterilizable & Autoclavable

APPLICATIONS

- Pharmaceutical and Biotechnological processes
- Ultra-pure liquid transfer
- Food and beverage transfer
- Bulk transfer
- Load cell applications
- Vacuum applications

Part number	I.D. in. (mm)	O.D. in. (mm)	Working pressure psi	Burst pressure psi	Min. Bend Radius in.	Vacuum Rating (in.hg)	Weight lbs. / ft.
PC65-W-0500	.50 (12.7)	.860 (21.8)	150	600	3.00	29.9	.30
PC65-W-0750	.75 (19.1)	1.110 (28.2)	150	600	4.50	29.9	.40
PC65-W-1000	1.00 (25.4)	1.360 (34.5)	150	600	6.25	29.9	.45
PC65-W-1500	1.50 (38.1)	1.860 (47.2)	150	600	9.00	29.9	.75
PC65-W-2000	2.00 (50.8)	2.360 (59.9)	150	600	10.5	29.9	1.00
PC65-W-2500	2.50 (63.5)	2.860 (72.6)	100	400	11.5	29.9	1.25
PC65-W-3000	3.00 (76.2)	3.360 (85.3)	100	400	13.0	29.9	1.40
PC65-W-4000	4.00 (101.6)	4.360 (110.7)	75	300	23.0	29.9	2.10
PC65-W-6000	6.00 (152.4)	6.360 (161.5)	50	200	39.0	24.0	3.25

Pressure and vacuum ratings based @ 70°F (21°C)
Burst pressure will decrease 5% for each 200°F (93°C) increase

Long Lengths



PC65-B series

Polyester braid reinforced

PureFlex PC65-B series hose incorporates strong polyester braid between extrusions of our platinum cured silicone (65 Shore A). PB65-B is super flexible and can handle much higher pressures than non-reinforced tubing.

FEATURES

- Available in 25, 50 & 100 foot lengths
- (-)80°F (-62°C) to 500°F (260°C) temp. range
- Excellent flexibility
- No organic plasticizers, phthalates or latex additives
- Imparts no taste or odor
- Non-wettable (hydrophobic)
- Sterilizable & Autoclavable

APPLICATIONS

- Pharmaceutical and Biotechnological processes
- Ultra-pure liquid transfer
- Cell cultures
- Food and beverage transfer
- Dairy applications
- Bulk transfer
- Load cell applications
- Pump applications

Part number	Nominal I.D. in. (mm)	Nominal O.D. in. (mm)	Working pressure psi	Burst pressure psi	Min. Bend Radius in.	Weight lbs. / ft.
PC65-B-0125	.125 (3.2)	.355 (9.0)	170	680	<1.0	.040
PC65-B-0187	.187 (4.7)	.447 (11.4)	160	640	<1.0	.055
PC65-B-0250	.250 (6.4)	.500 (13.2)	150	600	1.25	.070
PC65-B-0375	.375 (9.5)	.625 (16.6)	140	560	1.80	.120
PC65-B-0500	.500 (12.7)	.875 (20.3)	125	500	2.50	.160
PC65-B-0625	.625 (15.9)	1.000 (24.5)	100	400	3.00	.220
PC65-B-0750	.750 (19.1)	1.125 (27.9)	95	380	3.50	.265
PC65-B-0875	.875 (22.2)	1.250 (31.4)	80	320	4.00	.310
PC65-B-1000	1.00 (25.4)	1.375 (34.5)	60	240	4.50	.350
PC65-B-1250	1.25 (31.8)	1.625 (41.3)	80	220	5.90	.460
PC65-B-1500	1.50 (38.1)	1.875 (47.6)	50	200	8.00	.765

Pressure ratings based @ 70°F (21°C)

Burst pressure will decrease 10% for each 200°F (93°C) increase



PC50 & PC65 series

Clear non-reinforced

PureFlex PC50 (50 Shore A) and PC65 (65 Shore A) is platinum cured silicone tubing containing no additives. It resists clotting, encrustation and is highly tear resistant. PC65 and PC50 are ideal for use in pharmaceutical and biotechnological processes. Tubing is boxed and double bagged.

FEATURES

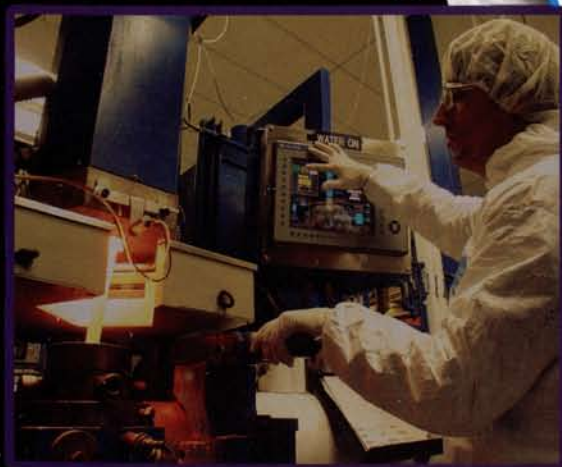
- Available in 25, 50 & 100 foot lengths
- (-)80°F (-62°C) to 500°F (260°C) temp. range
- Ultra-flexibility
- No organic plasticizers, phthalates or latex additives
- Imparts no taste or odor
- Non-wettable (hydrophobic)
- Sterilizable & Autoclavable

APPLICATIONS

- Laboratory uses
- Ultra-pure liquid transfer
- Cell cultures
- Drug delivery
- Sterile fill and transfers
- Pump tubing
- Veterinary pharmaceuticals
- Food and beverage transfer
- Dairy applications

Part number	Nominal I.D. in. (mm)	Nominal O.D. in. (mm)	Wall in. (mm)
PC50-0062	.062 (1.6)	.095 (2.4)	.016 (0.4)
PC50-0063	.062 (1.6)	.125 (3.2)	.032 (0.8)
PC50-0078	.078 (2.0)	.125 (3.2)	.024 (0.6)
PC50-0104	.104 (2.6)	.183 (4.9)	.044 (1.1)
PC50-0125	.125 (3.2)	.192 (6.4)	.063 (1.6)
PC50-0132	.132 (3.4)	.250 (4.7)	.063 (0.7)
PC50-0188	.188 (4.8)	.313 (7.9)	.063 (1.6)
PC50-0189	.188 (4.8)	.375 (9.5)	.094 (2.4)
PC50-0250	.250 (6.4)	.375 (9.5)	.063 (1.6)
PC50-0251	.250 (6.4)	.438 (11.1)	.094 (2.4)
PC50-0252	.250 (6.4)	.500 (12.7)	.125 (3.2)
PC50-0313	.313 (7.9)	.500 (12.7)	.094 (2.4)
PC50-0375	.375 (9.5)	.500 (12.7)	.063 (1.6)
PC50-0376	.375 (9.5)	.563 (14.3)	.094 (2.4)
PC50-0377	.375 (9.5)	.625 (15.9)	.125 (3.2)
PC50-0500	.500 (12.7)	.687 (17.4)	.094 (2.4)
PC50-0501	.500 (12.7)	.750 (19.1)	.125 (1.2)
PC50-0625	.625 (15.9)	.875 (22.2)	.125 (1.2)
PC50-0626	.625 (15.9)	.938 (23.8)	.156 (4.0)
PC50-0750	.750 (19.1)	1.00 (25.4)	.125 (3.2)
PC50-0875	.875 (22.2)	1.00 (25.4)	.062 (1.6)
PC50-1000	1.00 (25.4)	1.13 (27.9)	.062 (1.6)
PC50-1001	1.00 (25.4)	1.25 (31.8)	.125 (3.2)
PC50-1002	1.00 (25.4)	1.50 (38.1)	.250 (6.4)

Note: For 65 Shore A durometer tubing, replace part number prefix PC50 with PC65.
- Other tubing sizes available upon request.



Fittings & Materials

PureFlex manufactures more of its own product than any other company in this industry. Our fitting and collar selection is unequalled and offers more choices to meet your most demanding applications.

FITTINGS

PureFlex fittings and collars are designed specifically for Silicone and Fluoropolymer hoses. Combining biopharmaceutical and aerospace quality standards, that provide a minimum interior surface finish of 15 Ra on all sanitary fittings. Better surface finishes are available upon request.

All fitting styles may not be available for all hose types

MATERIALS

PureFlex offers a wide range of fitting materials which include 316 s.s., 304 s.s., Monel®, Hastelloy®, Titanium® solid Kynar® (PVDF), solid polypropylene, PFA encapsulated 316 s.s. or carbon steel. Other materials available upon request.

THREADED FITTINGS



STYLE 03 Male Pipe (NPT) Hex



STYLE 04 Male Pipe (NPT)



STYLE 06 Female Pipe (NPT)



STYLE 30 JIC Female Swivel



STYLE 33 Male Union (NPT)



STYLE 36 Female Union (NPT)



STYLE 37 Female Swivel NPSH



JIC/NPT Adapter

CAM LOCK



STYLE 07 Female CAM Lock 'D'



STYLE 17 Female CAM Lock 'D' Reducer



STYLE 27 Female CAM Lock 'D' (PFA Encapsulated)



STYLE 08 Male CAM Lock 'E'



STYLE 28 Male CAM Lock 'E' (PFA Encapsulated)



STYLE 20 Male Flange Adapter (PFA Encapsulated)



STYLE 21 Female Flange Adapter (PTFE Encapsulated)



STYLE 02 CAM Spool Adapter



STYLE 22 CAM Spool Adapter (PFA Encapsulated)



Fittings & Other High Purity Products

COMPRESSION, BUTTWELD

SANITARY

FLANGES



STYLE 31 O-Ring Female Swivel 'D'



STYLE 40 Sanitary (Tri-Clamp)



STYLE 45 Bevel Seat Female



STYLE 05 Flange Retainer
STYLE 15 P Series Flange Retainer



STYLE 38 Compression Adapter



STYLE 40F Sanitary Flare Thru (FlexChem hose only)



STYLE 46 Bevel Seat Male



STYLE 25 Flange Retainer (PFA Encapsulated)



STYLE 39 Compression Connector with Nut and Ferrule



STYLE 40U Sanitary Flare Thru (UltraFlex hose only)



STYLE 48 I-Line Male



STYLE 29 Flare Thru Flange (UltraFlex hose only)



STYLE 18 Tube Buttweld



STYLE 41 Sanitary Step-Up



STYLE 49 I-Line Female



STYLE 29F Flare Thru Flange (FlexChem hose only)



STYLE 19 Pipe Buttweld



STYLE 42 Sanitary Mini



STYLE 11 Splice



STYLE 44 Sanitary X Male Cam



840 series ultra-pure composite butterfly valve

PTFE, PFA & FEP hoses

RUBBER COVERED SMOOTH BORE, VIRGIN AND CONDUCTIVE LINERS

FlexChem™

Applications: chemical and external abrasion resistant, sanitary
Liner material: FEP & PTFE
Cover: EPDM rubber
Size range: 1/2" to 6"
Pressure rating: full vacuum to 525 PSI
Temperature range: -40°F to 350°F
See FLEX-998 brochure for more info.



BRAIDED SMOOTH BORE, VIRGIN AND CONDUCTIVE LINERS

SmoothFlex™

Applications: small bore for medium and high pressure
Liner material: PTFE
Cover: stainless braid
Size range: 1/8" to 1-1/2"
Pressure rating: full vacuum to 5000 PSI
Temperature range: -65°F to 450°F
See SMFX-00 brochure for more info.



MTH™

Applications: double contained, heavy duty, chemical resistant
Liner material: PTFE
Cover: stainless flexible metal
Size range: 1" to 10"
Pressure rating: full vacuum to 275 PSI
Temperature range: -65°F to 350°F
See MTH-00 brochure for more info.



BRAIDED CONVOLUTED, VIRGIN AND CONDUCTIVE LINERS

UltraFlex™

Applications: ultra flexible, heavy duty, chemical resistant, sanitary
Liner material: PTFE
Covers: stainless, polypropylene braid, coverless
Size range: 1/2" to 6"
Pressure rating: full vacuum to 400 PSI
Temperature range: -65°F to 450°F
See CONVO-00 brochure for more info.



MultiFlex™

Applications: superior flexibility, higher pressures, chemical resistant, sanitary
Liner material: PTFE
Covers: stainless, polypropylene braid
Size range: 1/2" to 3"
Pressure rating: full vacuum to 1500 PSI
Temperature range: -65°F to 450°F
See CONVO-00 brochure for more info.



ProFlex™

Applications: industrial grade, heavy duty, chemical resistant
Liner material: PFA
Covers: stainless, polypropylene braid
Size range: 1/2" to 6"
Pressure rating: full vacuum to 1500 PSI
Temperature range: -65°F to 450°F
See CONVO-00 brochure for more info.



CL2™

Applications: chlorine/bromine transfer
Liner material: PTFE
Covers: Kynar™ braid
Size range: 1/2" to 2"
Pressure rating: full vacuum to 500 PSI
Temperature range: -40°F to 350°F
See CL2-1099 brochure for more info.



CLEANING & STERILIZATION CONSIDERATIONS

It is the end user's responsibility to complete the cleaning and sterilization validation process. Testing should be conducted by the end user if sterilization conditions vary and if minor physical property changes of tubing could affect process performance. It is the end user's responsibility to ensure that PureFlex hose and tubing products are safe, effective and satisfactory for any intended use.

Cleaning

Silicone hose and tubing can be cleaned with hot water and mild surgical soap. Synthetic detergents or oil based soaps should not be used as they may be absorbed and subsequently leach out into the process fluid. Rinse thoroughly in running purified (distilled) water. Autoclave before interior becomes dry.

Autoclave (Steam Sterilization)

Silicone hose and tubing can withstand all common steam autoclave sterilization cycles without adverse effects to the product. Standard gravity steam cycles and high speed flash sterilization may be used.

Ethylene Oxide Sterilization

Silicone hose and tubing can withstand sterilization with Ethylene Oxide with no degradation of physical properties. It is recommended only if qualified by the end user for normal ETO cycles and complete aeration and outgassing times have been set.

Gamma Radiation Sterilization

Silicone tubing can withstand gamma radiation within the end user's qualified levels up to 2.5 Mrad (25 KGy). Repeated cycles or higher doses may change some physical properties such as; increase in durometer and tensile modulus, and tear strength and elongation may be slightly decreased.

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