

PFA HOSES

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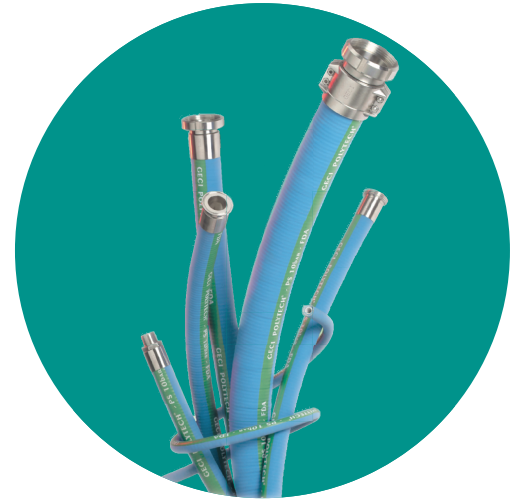
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High Resistance Hose

PT

The POLYTECH® hose was specifically developed for transfer of food, cosmetic, pharmaceutical, and chemical products, including aggressive fluids. The POLYTECH® hose is highly resistant to repetitive cycling typically found in dosing or filling machine applications.

The POLYTECH® hose can also be furnished in a carbon-filled version.



SPECIFICATIONS

Inner Bore: White inner bore in smooth inert fluoropolymer (PFA)

Reinforcements: Textile ply and steel wires embedded in the wall

Outer surface: Blue EPDM

Certification:

FDA 21 CFR 177.1550, USP Physicochemical 661, Cytotoxicity test, Hemolysis, USP Class VI.

Working temperature range:

- In static use: from -30 °C to +130°C
- In dynamic use: please contact us

Cleaning:

CIP products, sterilization by steam (135°C for a maximum of 30 minutes)

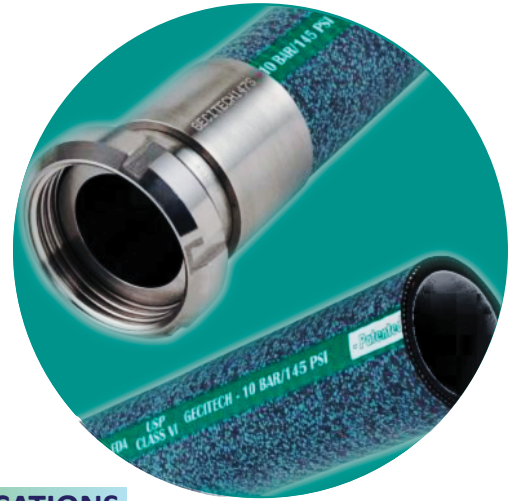


Product Number	ø I.D		ø ext.		P.L.N.E.		Burst Pressure		Bend Radius		Vaccum	
	Ins. diameter (mm.)	(in.)	Outs. Diameter (mm.)	(in.)	No bursting pres. (Bar)	(PSI)	(Bar)	(PSI)	(mm.)	(in.)	(Bar)	(PSI)
PT-051	13	0.51	26.0	1.024	30	435	10	145	55	2.20	0.90	13
PT-063	16	0.63	29.0	1.140	30	435	10	145	70	2.80	0.90	13
PT-075	19	0.75	32.0	1.260	30	435	10	145	90	3.50	0.90	13
PT-100	25	1.00	39.0	1.535	30	435	10	145	130	5.10	0.90	13
PT-125	32	1.25	46.0	1.811	30	435	10	145	180	7.10	0.90	13
PT-150	38	1.50	52.0	2.050	30	435	10	145	240	9.04	0.90	13
PT-200	51	2.00	66.5	2.620	30	435	10	145	290	11.04	0.90	13
PT-250	63	2.50	79.5	3.130	30	435	10	145	375	14.80	0.90	13
PT-300	76	3.00	94.0	3.701	30	435	10	145	500	19.70	0.90	13
PT-394	100	3.94	118.0	4.650	30	435	10	145	600	23.60	0.90	13

High Resistance Antistatic Hose

PTCP

The POLYTECH CP® (Partially Conductive) hose has been developed for transferring Group II A bipolar solvents, and can be used in different ATEX zones for the external part.



SPECIFICATIONS

Inner Bore: PFA fluoropolymer inert, ultra-smooth and non-adherent. Antistatic PFA fluoropolymer inert, ultra-smooth and non-adherent.

Reinforcement: textile frame and galvanised steel embedded in the wall.

Outer surface: Antistatic EPDM, marbled green/ black.

Standard manufacturing length: 20m.

Sterilisation: 135°C for 30 min maximum.

Working temperature range:

- In static use: from -30 °C to +130°C

- In dynamic use: please contact us

Certification:

FDA 21 CFR 177.1550, USP Class VI, Regulation (EU) 10/2011, Regulation (EC) 2023/2006, phthalate free. ATEX validation INERIS no. I 795-2X/09.



Product Number	ø I.D		ø ext.		P.L.N.E.		Burst Pressure		Bend Radius		Vaccum	
	Ins. diameter		Outs. Diameter		No bursting pres.							
	(mm.)	(in.)	(mm.)	(in.)	(Bar)	(PSI)	(Bar)	(PSI)	(mm.)	(in.)	(Bar)	(PSI)
PT-CP-051	13	0.512	25.0	0.984	30	435	10	145	55	2.17	0.90	13
PT-CP-063	16	0.630	28.0	1.102	30	435	10	145	70	2.76	0.90	13
PT-CP-075	19	0.748	31.0	1.220	30	435	10	145	90	3.54	0.90	13
PT-CP-100	25	0.984	37.0	1.437	30	435	10	145	130	5.12	0.90	13
PT-CP-126	32	1.260	45.0	1.772	30	435	10	145	180	7.08	0.90	13
PT-CP-150	38	1.496	51.0	2.008	30	435	10	145	240	9.45	0.90	13
PT-CP-200	51	2.008	65.5	2.579	30	435	10	145	290	11.42	0.90	13
PT-CP-250	63	2.480	79.5	3.130	30	435	10	145	375	14.76	0.90	13
PT-CP-300	76	2.990	92.0	3.622	30	435	10	145	500	19.69	0.90	13
PT-CP-394	100	3.937	116.0	4.567	30	435	10	145	600	23.62	0.90	13

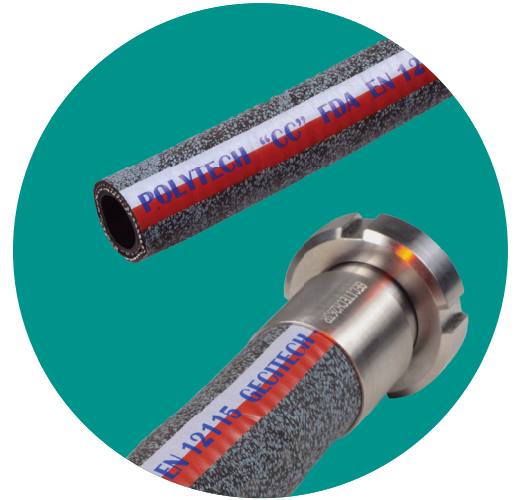
The above information is given for ambient temperature (20°C) and may vary according to working conditions.

*WP: Working pressure / *BP: Bursting pressure / Dimension tolerance: ± 0.02 inch

High Resistance non-Adherent Hose

PTCC

The POLYTECH CC® hose (Full Conductive) hose is intended for transferring all chemicals, even the most aggressive, in explosion risk zone. It is designed to ensure electrostatic dissipation on the surface and through the hose wall.



SPECIFICATIONS

Inner Bore: Antistatic PFA fluoropolymer inert, ultra-smooth and non-adherent.

Reinforcement: textile frame and galvanised steel embedded in the wall.

Outer surface: Antistatic EPDM, and blue/black (CC) ($R < 10^6 \Omega$).

Standard manufacturing length: 20m.

Sterilisation: 135°C for 30 min maximum.

Working temperature range:

- In static use: from -30 °C to +130°C
- In dynamic use: please contact us

Certification:

FDA 21 CFR 177.1550, USP Class VI, Regulation (EU) 10/2011, Regulation (EC) 2023/2006, phtalate free. NF EN 12115 2011, NF EN 1211 5 2011, ATEX validation INERIS no.208820 - 2754361 - vl.0 all zones (Gecitech assembly).

Product Number	ø I.D		ø ext.		P.L.N.E.		Burst Pressure		Bend Radius		Vaccum	
	Ins. diameter		Outs. Diameter		No bursting pres.							
	(mm.)	(in.)	(mm.)	(in.)	(Bar)	(PSI)	(Bar)	(PSI)	(mm.)	(in.)	(Bar)	(PSI)
PT-CC-0510	13	0.512	25.0	0.984	30	435	10	145	55	2.17	0.90	13
PT-CC-0630	16	0.630	28.0	1.102	30	435	10	145	70	2.76	0.90	13
PT-CC-0750	19	0.748	31.0	1.220	30	435	10	145	90	3.54	0.90	13
PT-CC-1000	25	0.984	37.0	1.437	30	435	10	145	130	5.12	0.90	13
PT-CC-1260	32	1.260	45.0	1.772	30	435	10	145	180	7.08	0.90	13
PT-CC-1500	38	1.496	51.0	2.008	30	435	10	145	240	9.45	0.90	13
PT-CC-2000	51	2.008	65.5	2.579	30	435	10	145	290	11.42	0.90	13
PT-CC-2500	63	2.480	79.5	3.130	30	435	10	145	375	14.76	0.90	13
PT-CC-3000	76	2.990	92.0	3.622	30	435	10	145	500	19.69	0.90	13
PT-CC-3940	100	3.937	116.0	4.567	30	435	10	145	600	23.62	0.90	13

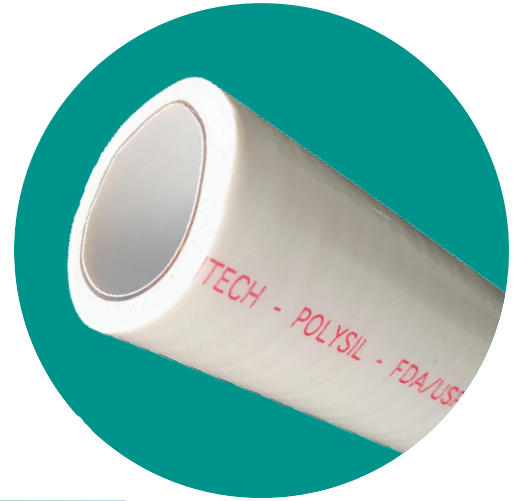
The above information is given for ambient temperature (20°C) and may vary according to working conditions.

*WP: Working pressure / *BP: Bursting pressure / Dimension tolerance: ± 0.02 inch

High Resistance Silicone Hose

PLS

The POLYSIL® hose is ideal for transferring food, chemical, cosmetic, pharmaceutical and biotechnology products. The combination of silicone and PFA gives it excellent thermal properties and resistance to the most aggressive products while also avoiding any risk of migration of the transferred product. Excellent resistance in dynamic cycles (repeated machine cycles of dosing or filling).



SPECIFICATIONS

Inner Bore: PFA (fluoropolymer) inert, ultra-smooth and non-adherent tube.

Reinforcement: textile and stainless steel (high resistance against stress corrosion) embedded in the wall.

Outer surface: platinum catalysed white silicone.

Standard manufacturing length: 5.60 m.

Cleaning: CIP products, steam sterilisation (135°C for 30min), autoclaving.

Certification:

FDA 21 CFR 177.1550, USP Physicochemical 661, USP class VI, cytotoxicity test, Hemolysis, Regulations (EC) 1935/2004 and 10/2011, phthalate free.

Working temperature range: -30 °C to +120°C



Product Number	DN		ø I.D		ø ext.		Working Pressure		Burst Pressure		Bend Radius		Vacuum		Weight	
	(mm.)	(in.)	(mm.)	(in.)	(mm.)	(in.)	(Bar)	(PSI)	(Bar)	(PSI)	(mm.)	(in.)	(Bar)	(PSI)	(kg/m)	(lb/f)
PLS-0512	13	1/2"	13,5	0,51	23,5	0,92	10	145	40	580	95	3,74	-0,9	-13	0,39	0,26
PLS-0630	16	5/8"	16	0,63	27,0	1,06	10	145	40	580	110	4,33	-0,9	-13	0,50	0,34
PLS-0787	20	3/4"	20	0,78	31,3	1,23	10	145	40	580	135	5,31	-0,9	-13	0,63	0,42
PLS-0984	25	1"	25	1,00	37,5	1,47	10	145	40	580	140	5,51	-0,9	-13	0,90	0,60
PLS-1260	32	1 1/4"	32	1,25	45,0	1,77	10	145	40	580	190	7,48	-0,9	-13	1,20	0,81
PLS-1496	38	1 1/2"	38	1,50	51,5	2,03	10	145	40	580	220	8,66	-0,9	-13	1,35	0,91
PLS-2008	51	2"	51	2,00	65,0	2,56	10	145	40	580	250	9,84	-0,9	-13	1,90	1,28
PLS-2480	63	2 1/2"	63,4	2,50	79,0	3,11	10	145	40	580	308	12,13	-0,9	-13	2,40	1,61

The above values are given for use at ambient temperature (+/- 20°C) and may vary depending upon conditions of use.
Dimensional tolerances: contact us.

Ultra Extra High Pressure Hose

ULP

Ultra High Pressure hose is ideal for high pressure gas and liquid applications that use natural non conductive inner cores. We can produce the longest high pressure hose Fluoropolymer assemblies in the industry to any custom length required for your system.

Ultra is ideal for inert gas applications and liquids requiring FDA compliance. Examples of applications included compressed gas cylinder filling, spray dryers in milk powder production and replacement of rigid high pressure stainless steel tubing or corrugated metal hose in long lengths. We are able to couple up to 150 feet (46m) continuous lengths with no splices.



SPECIFICATIONS

Inner Bore:

Fluoropolymer innrcores of non-conductive ETFE or PFA tht are fully FDA compliant. PFA and PTFE innercores for gas and pneumatic service these Fluoropolymers unlike PTFE do not require any post sintering.

Reinforcement:

Ultra incorporates the use of one braided layer of high tensile aramid fiber and one layer of stainless steel. This value engineered construction reduces weight and improves bend radius while increasing burst pressure. An integra abrasion resistant Hytrel jacket protects the exteri- or braid and has a smooth finished appearance.

Temperature range:

Without Hytrel Cover 54 °C to +260°C WithHytrel Cover -29°C to + 82°C



Size	PFA Metric Reference	ETFE Metric Reference	I.D. Ins. diameter (in.)	O.D. Outs. Diameter (in.)	Wall (in.)	Max Working Pressure (PSI)	Min Burst Pressure (PSI)	Min Bending Radius (in.)
-4	ULPID.22N	ULEID.22N	0.220	0.460	0.039	6000	24000	1.0
-6	ULPID.31N	ULEID.31N	0.315	0.551	0.039	6000	24000	2.0
-8	ULPID.39N	ULEID.39N	0.394	0.748	0.039	6000	24000	2.3

PFA Metric Reference	ETFE Metric Reference	I.D. Ins. diameter (mm)	O.D. Outs. Diameter (mm)	Wall (mm)	Max Working Pressure (Bar)	Min Burst Pressure (Bar)	Min Bending Radius (mm)
ULPMD5N	ULEMD5.1N	5.0	9.7	1.00	300	1200	25
ULPMD6.5N	ULEMD6.5N	6.5	13.0	1.00	415	1660	25
ULPMD6.5N	ULEMD6.5N	6.5	16.0	1.00	475	1900	25
ULPMD8N	ULEMD8N	8.0	14.0	1.00	320	1280	50
ULPMD10N	ULEMD10N	10.0	18.0	1.25	320	1280	58
ULPMD10N	ULEMD10N	10.0	19.0	1.25	415	1660	58
ULPMD13N	ULEMD13N	13.0	19.0	1.25	320	1280	75