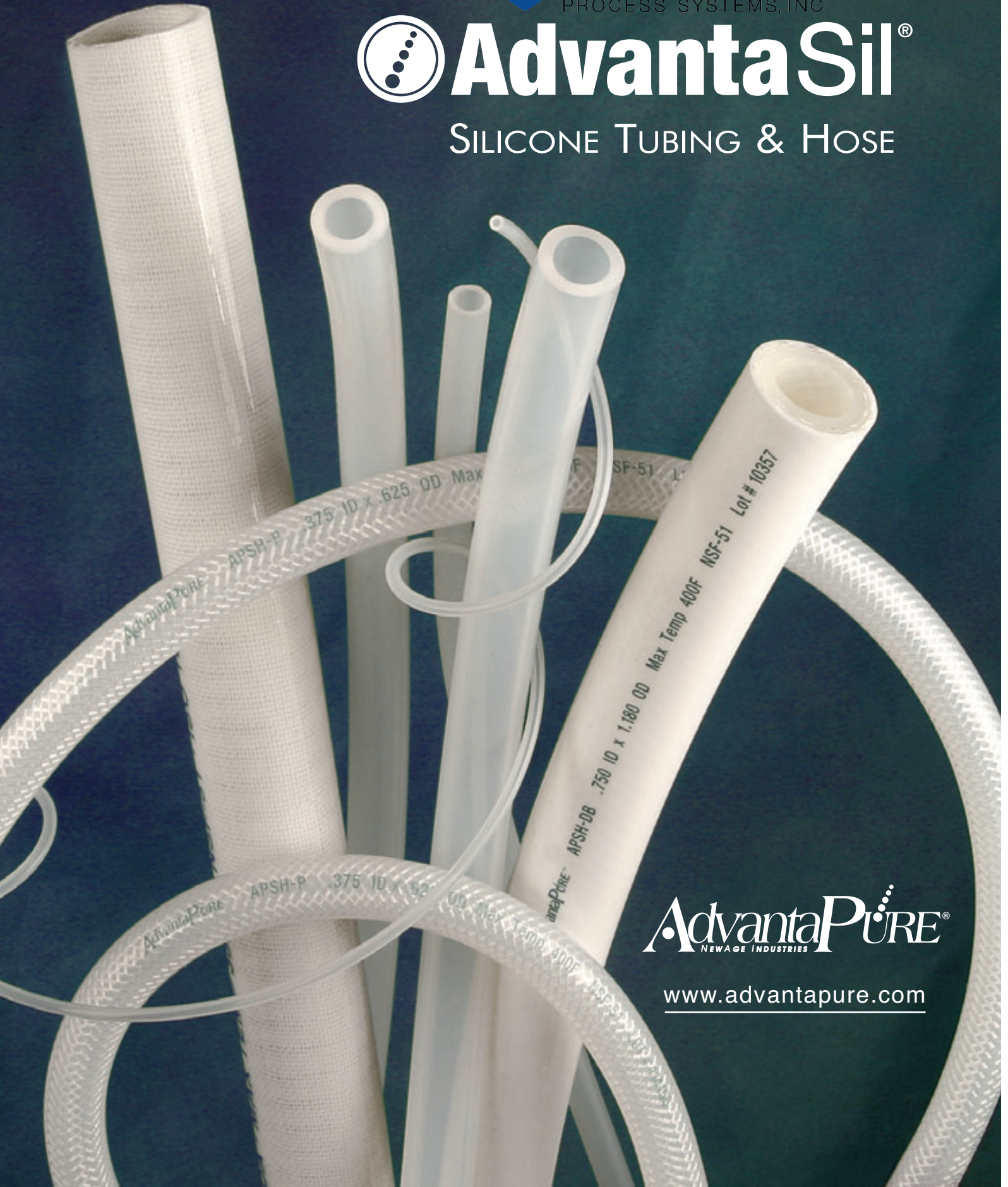


 **SENTINEL**  
PROCESS SYSTEMS, INC

 **AdvantaSil<sup>®</sup>**

SILICONE TUBING & HOSE



**AdvantaPure<sup>®</sup>**  
NEWAGE INDUSTRIES

[www.advantapure.com](http://www.advantapure.com)

# Purity

## IN FLUID FLOW SYSTEMS®

... is the focus of AdvantaPure®, NewAge® Industries' high purity products division. Our **AdvantaSil®** silicone tubing and hose products are quickly becoming recognized as superior choices for Single-Use processes worldwide. Engineers in process development and manufacturing have relied on **AdvantaSil** unreinforced tubing, reinforced hose, pump grade tubing and wire reinforced suction hose for years.

AdvantaPure manufactures products for the pharmaceutical, biopharmaceutical, food, beverage, dairy, chemical and clean-application industries. Products include:

- **High Purity Silicone Tubing & Hose**
- **Molded Silicone Components & Manifold Assemblies**
- **Sanitary Hose Assemblies**

- **Container Closures & Bottle Assemblies**
- **Bioreactor Tubing Kits**
- **Visual Identification Solutions**

AdvantaPure products are clean room produced under strict manufacturing practices. All silicone products are certified to be free of animal-derived ingredients, and many products meet a variety of industry standards (FDA, USP, NSF, European Pharmacopoeia). Products are sealed in clear polybags (double bagged) during manufacture to ensure cleanliness, then stored in a separate warehouse environment.



AdvantaPure products are available through a network of select distributors. Click the "Find a Distributor" tab at [www.advantapure.com](http://www.advantapure.com) to locate the name of your nearest distributor, or call AdvantaPure at 888-755-4370 or 215-526-2151.

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# AdvantaSil®

## APST UNREINFORCED SILICONE TUBING

TRANSLUCENT, PLATINUM-CURED



*Low-volatile grade, platinum-cured silicone tubing is clean-room produced for critical pharmaceutical, biopharm, cosmetic, and food applications. AdvantaSil APST has undergone extensive physical, chemical, and biological testing and meets USP Class VI, FDA CFR 177.2600, ISO 10993, and European Pharmacopoeia 3.1.9 standards. Full BPOG standardized extractables test protocol has been performed by a fully-accredited, third-party test lab.*

### KEY FEATURES

- Particulate testing per USP 788 is performed quarterly
- All assembly and final packaging is performed in an ISO Class 7 clean room
- Low volatile grade silicone suitable for pharmaceutical and biopharm applications
- Listed by the National Sanitation Foundation for food equipment materials (NSF-51)
- Certified free of animal-derived ingredients
- General temperature range: -100°F (-73.3°C) to 400°F (204.4°C)
- Resists temperature extremes, compression set, chemical attack, ozone, radiation, moisture and environmental exposure
- Sterilizable by autoclave or gamma radiation
- Available with validated sterility assurance of 10<sup>-6</sup> via gamma irradiation per ISO 11137 method VDmax 25
- Documented lot traceable with identification on packaging
- Documented quality control per ISO 9001:2015
- Included in our Rx-360 Joint Audit Program for Single-Use Systems



**Complete validation package available on request**

**Full BPOG standardized extractables test results available on request**

AdvantaSil APST Unreinforced Silicone Tubing is not intended for implantation, continuous steam applications, or elevated pressure levels.

*continued*

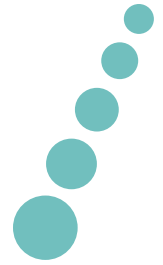
www.advantapure.com

# AdvantaSil® APST UNREINFORCED SILICONE TUBING



Product Number	Notes	I.D.		Wall		O.D.		Working Pressure at 70°F (21.1°C)		Standard Available Length (ft.)
		(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(reference)	(PSI)	
APST-0030-0160		.030	.76	.065	1.65	.160	4.06	53	3.7	50
APST-0063-0125		.063	1.59	.031	.79	.125	3.18	22	1.5	50
APST-0063-0188		.063	1.59	.063	1.59	.188	4.76	33	2.3	50
APST-0078-0141	*	.078	1.98	.031	.79	.141	3.58	17	1.2	50
APST-0094-0219		.094	2.38	.063	1.59	.219	5.56	25	1.7	100
APST-0094-0281		.094	2.38	.094	2.38	.281	7.14	34	2.3	100
APST-0125-0250		.125	3.18	.063	1.59	.250	6.35	23	1.6	50, 100, 500 spool
APST-0125-0313		.125	3.18	.094	2.38	.313	7.94	29	2.0	50
APST-0125-0375	*	.125	3.18	.125	3.18	.375	9.53	37	2.6	50
APST-0156-0281	*	.156	3.97	.063	1.59	.281	7.14	not available		100
APST-0156-0406		.156	3.97	.125	3.18	.406	10.31	33	2.3	50
APST-0188-0313		.188	4.76	.063	1.59	.313	7.94	16	1.1	50
APST-0188-0375	†	.188	4.76	.094	2.38	.375	9.53	21	1.4	50
APST-0188-0438		.188	4.76	.125	3.18	.438	11.11	25	1.7	50
APST-0250-0375		.250	6.35	.063	1.59	.375	9.53	13	.9	50, 100,
APST-0250-0438		.250	6.35	.094	2.38	.438	11.11	18	1.2	50, 100, 300 spool
APST-0250-0500		.250	6.35	.125	3.18	.500	12.70	22	1.5	50, 100
APST-0313-0375	*	.313	7.94	.031	.79	.375	9.53	not available		50, 100
APST-0313-0438		.313	7.94	.063	1.59	.438	11.11	11	.8	25, 50
APST-0313-0500		.313	7.94	.094	2.38	.500	12.70	17	1.2	50, 100
APST-0313-0563	*	.313	7.94	.125	3.18	.563	14.30	21	1.4	50, 100
APST-0375-0500		.375	9.53	.063	1.59	.500	12.70	10	.7	50, 100
APST-0375-0563		.375	9.53	.094	2.38	.563	14.30	16	1.1	50, 100
APST-0375-0625		.375	9.53	.125	3.18	.625	15.88	16	1.1	25, 50, 100, 150 spool

*continued*



Product Number	Notes	I.D.		Wall		O.D.		Working Pressure at 70°F (21.1°C)		Standard Available Length (ft.)
		(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(PSI)	(Bar)	
APST-0500-0625	*	.500	12.70	.063	1.59	.625	15.88	not available		50
APST-0500-0688		.500	12.70	.094	2.38	.688	17.48	11	.8	50
APST-0500-0750		.500	12.70	.125	3.18	.750	19.05	12	.8	50, 100
APST-0625-0875		.625	15.88	.125	3.18	.875	22.23	11	.8	50, 100
APST-0625-1000		.625	15.88	.188	4.76	1.000	25.40	16	1.1	25, 50
APST-0750-1000		.750	19.05	.125	3.18	1.000	25.40	10	.7	50, 100
APST-0750-1125	*	.750	19.05	.188	4.76	1.125	28.58	14	1.0	25, 50
APST-0875-1000		.875	22.23	.063	1.59	1.000	25.40	not available		50
APST-1000-1250		1.000	25.40	.125	3.18	1.250	31.75	8	.6	50
APST-1000-1375		1.000	25.40	.188	4.76	1.375	34.93	11	.8	25, 50
APST-1000-1500	*	1.000	25.40	.250	6.35	1.500	38.10	13	.9	50

Sold by standard coil length only. Add length suffix code to product number when ordering—see the **Coil Length Legend** at right for length suffix codes. Example: 25 ft. of .030 in. I.D. x .160 in. O.D. tubing is product number APST-0030-0160P.

Non-listed sizes and custom lengths are available by special order.

Working pressures are calculated from burst testing using a 3:1 safety factor. Application testing is recommended.

Coils and spools are supplied double bagged in heat-sealed polybags and bulk packed. Contact your AdvantaPure Sales Representative for other packaging options.

**Notes Legend:**

\*Limited stock availability; lead times and minimums may apply—call for details.

†Available in longer lengths on spools—call for details.

**Coil Length Legend:**

- P = 25 feet
- L = 50 feet
- K = 100 feet



*Molded mini and standard Tri-Clamp® fitting styles are available in sizes up to 1" tube I.D. The assemblies reduce installation time, improve cleanliness, and retain the many benefits of silicone. Contact AdvantaPure for details.*



# AdvantaSil®

## APHP HIGH PRESSURE UNREINFORCED SILICONE TUBING TRANSLUCENT, PLATINUM-CURED



*AdvantaSil High Pressure silicone tubing is a high quality, cost effective solution designed for increased flow rates to reduce your processing time. AdvantaSil High Pressure is the optimal choice for Single-Use applications such as TFF, virus filtration, inline integrity testing of filtration assemblies, and high volume fluid transfer.*

*AdvantaSil High Pressure tubing has undergone extensive physical, chemical and biological testing and meets USP Class VI, FDA CFR 177.2600, ISO 10993, European Pharmacopoeia 3.1.9 and other standards. Full BPOG standardized extractables test protocol has been performed by a fully-accredited, third-party test lab.*

### KEY FEATURES

- Allows for processing at higher flow rates
- Full vacuum capabilities on most sizes
- Flexible and translucent yet durable
- Eliminates particulate shedding that can occur when cutting braid reinforced hose
- Certified free of animal-derived ingredients
- General temperature range: -65°F (-53.9°C) to 400°F (204.4°C)
- Hardness value of 82 Shore A
- Resists temperature extremes, compression set, chemical attack, ozone, radiation, moisture and environmental exposure
- Sterilizable by autoclave or gamma irradiation
- Available with validated sterility assurance of 10<sup>-6</sup> via gamma irradiation per ISO 11137 method VDmax 25
- Documented lot traceable with identification on packaging
- Documented quality control per ISO 9001:2015
- Included in our Rx-360 Joint Audit Program for Single-Use Systems



*Available with mini and standard Tri-Clamp® ends — call for details!*

**Complete validation package available on request**

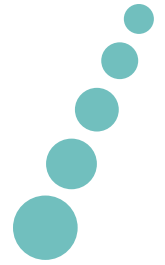
**Full BPOG standardized extractables test results available on request**

**APHP requires proper cutting techniques for optimal performance. See the instruction video at <http://www.advantapure.com/high-pressure-silicone-tubing.htm>.**

AdvantaSil High Pressure Unreinforced Silicone Tubing is not intended for implantation or continuous steam applications.

www.advantapure.com

# APHP



Product Number	I.D.		Wall		O.D.		Bend Radius		Standard Available Length (ft.)
	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	
APHP-0125-0250	.125	3.18	.063	1.60	.250	6.35	.375	9.5	50
APHP-0250-0375	.250	6.35	.063	1.60	.375	9.52	1	25	50
APHP-0375-0625	.375	9.52	.125	3.18	.625	15.88	1.2	30	50
APHP-0500-0750	.500	12.70	.125	3.18	.750	19.05	1.8	46	50
APHP-0750-1000	.750	19.05	.125	3.18	1.000	25.40	2.1	53	50
APHP-1000-1375	1.000	25.40	.188	4.77	1.375	34.93	4.1	104	50

Product Number	Burst Pressure Non-Treated		Recommended Working Pressure based on 3:1 safety factor Non-Treated		Burst Pressure Gamma Irradiated 45 kGy		Recommended Working Pressure based on 3:1 safety factor Gamma Irradiated 45 kGy		Vacuum Capability (in./Hg)
	(psi)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(bar)	
APHP-0125-0250	244	16.8	81	5.6	289	19.9	96	6.7	>29.5
APHP-0250-0375	125	8.6	42	2.9	144	9.9	48	3.3	>29.5
APHP-0375-0625	177	12.2	59	4.1	211	14.5	70	4.8	>29.5
APHP-0500-0750	140	9.7	47	3.2	157	10.8	52	3.6	>29.5
APHP-0750-1000	109	7.5	36	2.5	123	8.5	41	2.8	>29.5
APHP-1000-1375	115	7.9	38	2.6	131	9	44	3	>29.5



**Specific cutting techniques are strongly recommended for APHP.** The tubing must be cut with a chevron style cutter at a 90 degree angle to the tubing. View cutter product details at <https://www.lislecorp.com/specialty-tools/hose/hose-cutter>.

Sold by standard coil length of 50 ft. Add length suffix code "L" to product number when ordering. Example: 50 ft. of .250 in. I.D. x .375 in. O.D. tubing is product number APHP-0250-0375L.

Non-listed sizes and custom lengths are available by special order.

Coils are supplied double bagged in heat-sealed polybags and bulk packed.

Contact your AdvantaPure Sales Representative regarding any special product or packaging needs.

**Recommended working pressures are calculated from burst testing using a 3:1 safety factor.** Testing was performed at ambient temperature. Application testing is recommended.

CF = Consult factory

**APHP requires proper cutting techniques for optimal performance.** See the instruction video at <http://www.advantapure.com/high-pressure-silicone-tubing.htm>.



# AdvantaSil®

## APLT ULTRA LOW TEMPERATURE UNREINFORCED SILICONE TUBING

PLATINUM-CURED



*AdvantaSil Ultra Low Temperature silicone tubing is a unique fluid flow product designed for applications where the tubing material is exposed to extremely low temperatures. AdvantaSil Ultra Low Temp remains flexible and crush resistant at -112°C — no cracking or loss of integrity. It's the first tubing of its kind and the optimal choice for applications related to bulk drug storage and transport.*

*AdvantaSil Ultra Low Temp has undergone extensive physical, chemical and biological testing and meets USP Class VI, FDA CFR 177.2600 and ISO 10993 standards. Full BPOG standardized extractables test protocol has been performed by a fully-accredited, third-party test lab.*

### KEY FEATURES

- Remains flexible and durable at temperatures as low as -112°C
- Allows for optimal freezer utilization since no clam shell is needed to protect the tubing
- Resists compression set and cracking at low temperatures
- Engineered for Single-Use applications
- Glass transition (Tg) temperature: -112°C
- Sterilizable by autoclave or gamma irradiation
- All assembly and final packaging is performed in an ISO Class 7 clean room
- Particulate testing per USP 788 is performed quarterly
- Available as molded manifold tubing assemblies, BioClosure® container closures with tubing, or as part of a bag assembly
- General temperature range: -112°C to 175°C (-169.6°F to 347°F)
- Certified free of animal-derived ingredients
- Documented lot traceable with identification on packaging
- Documented quality control per ISO 9001:2015
- Included in our Rx-360 Joint Audit Program for Single-Use Systems



*Available as molded BioClosure® container closures*

**Complete validation package available on request**

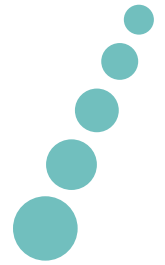
**Full BPOG standardized extractables test results available on request**

AdvantaSil Ultra Low Temperature Unreinforced Silicone Tubing is not intended for implantation, continuous steam applications, or elevated pressure levels.

www.advantapure.com



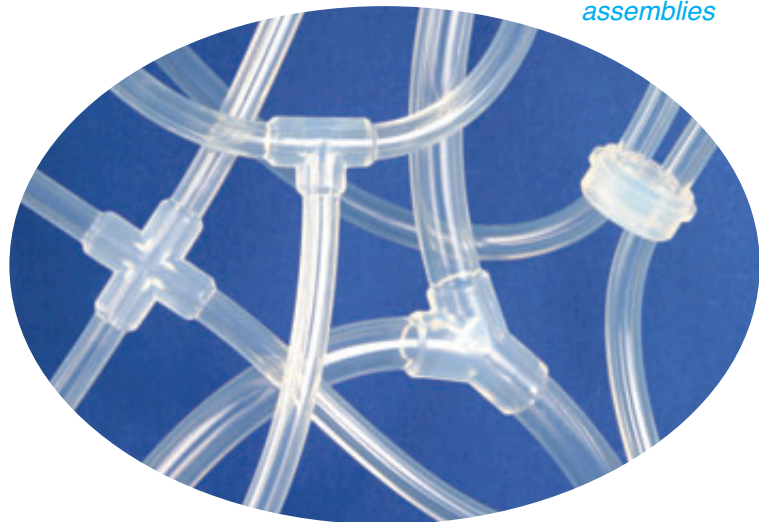
# APLT



Product Number	I.D.		Wall		O.D.		Standard Available Length (ft.)
	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	
APLT-0125-0250	.125	3.18	.063	1.59	.250	6.35	50
APLT-0250-0375	.250	6.35	.063	1.59	.375	9.52	50
APLT-0250-0500	.250	6.35	.125	3.18	.500	12.70	50
APLT-0375-0625	.375	9.52	.125	3.18	.625	15.88	50
APLT-0500-0750	.500	12.70	.125	3.18	.750	19.05	50

Sold by standard coil length of 50 ft. only. Add length suffix code "L" to product number when ordering. Example: 50 ft. of .125 in. I.D. x .250 in. O.D. tubing is product number APLT-0125-0250L. Coils are supplied double bagged in heat-sealed polybags and bulk packed. Contact your AdvantaPure Sales Representative for other packaging options.

*Moldable for Single-Use assemblies*



*Ideal for Single-Use bag assemblies*



# APSPG PUMP GRADE SILICONE TUBING

PLATINUM-CURED



*Class VI, platinum-cured silicone elastomer comprises AdvantaPure's peristaltic pump grade silicone tubing. Ideally suited for pharmaceutical, biotech, and laboratory environments, AdvantaSil APSPG is specially formulated to withstand repeated compression and release for consistent, dependable performance. AdvantaSil APSPG pump tubing has undergone extensive physical, chemical, and biological testing, and meets USP Class VI, FDA CFR 177.2600, ISO 10993 and European Pharmacopoeia 3.1.9 standards. Full BPOG standardized extractables test protocol has been performed by a fully-accredited, third-party test lab.*

## KEY FEATURES

- Particulate testing per USP 788 is performed quarterly
- All assembly and final packaging is performed in an ISO Class 7 clean room
- Special formulation promotes extended life in pumps
- Outstanding compression characteristics – snaps back to original form
- Smooth surfaces offer uniform fluid flow and resistance to bacteria build-up
- AdvantaSil APSPG tubing is USP Class VI approved
- Material meets FDA 21 CFR 177.2600
- Low volatile grade suitable for pharmaceutical and biomedical applications
- Translucent for visual contact with the flow
- Certified free of animal-derived ingredients
- Maximum operating temperature: 400°F (204.4°C); brittle temperature: less than -100°F (-73.3°C)
- Sterilizable/autoclavable
- Documented lot traceable with identification on packaging
- Documented quality control per ISO 9001:2015
- AdvantaFlex® biopharmaceutical grade tubing also available – heat sealable, weldable and moldable
- Included in our Rx-360 Joint Audit Program for Single-Use Systems



**Complete validation package available on request**

**Full BPOG standardized extractables test results available on request**

AdvantaSil APSPG Pump Grade Silicone Tubing is not intended for implantation, continuous steam applications, or elevated pressure levels.

www.advantapure.com



Product Number	I.D.		Wall		O.D.		Standard Available Length (ft.)
	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	
APSPG-0031-0156	.031	.79	.063	1.59	.156	3.97	25
APSPG-0063-0188	.063	1.59	.063	1.59	.188	4.76	25
APSPG-0125-0250	.125	3.18	.063	1.59	.250	6.35	50
APSPG-0188-0313	.188	4.76	.063	1.59	.313	7.94	50
APSPG-0250-0375	.250	6.35	.063	1.59	.375	9.52	50
APSPG-0250-0438	.250	6.35	.094	2.38	.438	11.11	50
APSPG-0250-0500	.250	6.35	.125	3.18	.500	12.70	50
APSPG-0313-0500	.313	7.94	.094	2.38	.500	12.70	50
APSPG-0375-0563	.375	9.52	.094	2.38	.563	14.29	50
APSPG-0375-0625	.375	9.52	.125	3.18	.625	15.88	50
APSPG-0500-0750	.500	12.70	.125	3.18	.750	19.05	50

Sold by standard coil length only. Add length suffix code to product number when ordering—see the **Coil Length Legend** at right for length suffix codes. Example: 25 ft. of .031 in. I.D. x .156 in. O.D. tubing is product number APSPG-0031-0156P.

**Coil Length Legend:**

- P = 25 feet
- L = 50 feet

Non-listed sizes and custom lengths are available by special order.

Coils are supplied double bagged in heat-sealed polybags and bulk packed. Contact your AdvantaPure Sales Representative for other packaging options.



*AdvantaSil APSPG Pump Tubing is designed for consistent, dependable performance and to withstand the rigors of peristaltic pumps.*



# AdvantaSil®

## APSH BRAID REINFORCED SILICONE HOSE PLATINUM-CURED



*Low volatile grade, platinum-cured silicone hose is clean-room produced for critical pharmaceutical, biopharm, cosmetic, and food applications. Polyester yarn braiding inside the wall enhances pressure capabilities. AdvantaSil APSh has undergone extensive physical, chemical, and biological testing and meets USP Class VI, FDA CFR 177.2600, ISO 10993, and European Pharmacopoeia 3.1.9 standards. Full BPOG standardized extractables test protocol has been performed on the hose liner by a fully-accredited, third-party test lab.*

### KEY FEATURES

- Particulate testing per USP 788 is performed quarterly
- All assembly and final packaging is performed in an ISO Class 7 clean room
- Low volatile grade suitable for pharmaceutical and biopharm applications
- Listed by the National Sanitation Foundation for food equipment materials (NSF-51)
- Certified free of animal-derived ingredients
- General temperature range: -100°F (-73.3°C) to 400°F (204.4°C)
- Resists temperature extremes, compression set, chemical attack, ozone, radiation, moisture and environmental exposure
- Sterilizable by autoclave, CIP, SIP and gamma radiation processes
- Documented lot traceable with identification on packaging
- Documented quality control per ISO 9001:2015
- Included in our Rx-360 Joint Audit Program for Single-Use Systems

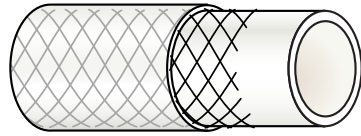
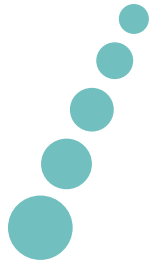


**Complete validation package available on request**

**Full BPOG standardized extractables test results available on request**

AdvantaSil APSh Braid Reinforced Silicone Hose is not intended for implantation and is not to be used for continuous steam applications.

www.advantapure.com



Product Number	Nominal I.D.		Wall		O.D.		Working Pressure at 70°F (21.1°C)		Burst Pressure at 70°F (21.1°C)		Minimum Bend Radius		Weight per Foot / Meter	
	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(PSI)	(Bar)	(PSI)	(Bar)	(in.)	(mm)	(lb.)	(kg)
APSH-P-0063	.063	1.59	.105	2.67	.282	7.16	200	13.79	775	53.44	CF	CF	.031	.046
APSH-P-0125	.125	3.18	.120	3.05	.375	9.53	175	12.07	700	48.27	CF	CF	.051	.076
APSH-P-0188	.188	4.76	.130	3.30	.462	11.73	170	11.72	650	44.82	CF	CF	.073	.109
APSH-P-0250	.250	6.35	.125	3.17	.500	12.70	140	9.65	550	37.92	1	25.4	.077	.115
APSH-P-0375	.375	9.53	.125	3.17	.625	15.88	140	9.65	550	37.92	1	25.4	.102	.152
APSH-P-0500	.500	12.70	.187	4.75	.875	22.23	105	7.24	420	28.96	3	76.2	.211	.314
APSH-P-0625	.625	15.88	.170	4.32	.990	25.15	100	6.90	400	27.58	3	76.2	.241	.359
APSH-P-0750	.750	19.05	.175	4.45	1.125	28.58	90	6.21	350	24.13	4	101.6	.287	.427
APSH-P-0875	.875	22.23	.180	4.57	1.260	32.00	65	4.48	250	17.24	5	127.0	.336	.500
APSH-P-1000	1.000	25.40	.190	4.83	1.405	35.69	60	4.14	225	15.51	6	152.4	.401	.597

Sold by standard coil length of 50 feet; APSH-P-0625 and APSH-P-1000 are also available in 25 foot lengths. Add length suffix code to product number when ordering—see the **Coil Length Legend** at right for length suffix codes. Example: 50 ft. of .250 in. I.D. hose is product number APSH-P-0250L.

**Coil Length Legend:**

- P = 25 feet
- L = 50 feet

Non-listed sizes and custom lengths are available by special order.

Coils are supplied double bagged in heat-sealed polybags and bulk packed. Contact your AdvantaPure Sales Representative for other packaging options.

CF = Consult factory

**NOTE:** When products are used as part of an assembly, the pressure ratings of fittings may be less than hose pressure ratings above. Please consult your sales representative.





# AdvantaSil®



## APSH-DB DOUBLE-BRAID REINFORCED SILICONE HOSE PLATINUM-CURED, POLYESTER BRAID

*Offered as an alternative to mandrel-built, wrapped silicone hose, AdvantaSil APSH-DB provides several advantages over wrapped hose. AdvantaSil APSH-DB, an extruded product, is available in lengths up to 50 feet. It offers more flexibility than wrapped hose and comparable working pressure ratings. AdvantaSil APSH-DB meets USP Class VI, FDA CFR 177.2600, ISO 10993, and European Pharmacopoeia 3.1.9 standards. Full BPOG standardized extractables test protocol has been performed on the hose liner by a fully-accredited, third-party test lab.*

### KEY FEATURES

- Particulate testing per USP 788 is performed quarterly
- All assembly and final packaging is performed in an ISO Class 7 clean room
- Low volatile grade suitable for pharmaceutical and biopharm applications
- Liner made of silicone certified by the National Sanitation Foundation for food equipment materials (NSF-51)
- Provided with white-colored outer silicone for a neat, clean appearance
- Certified free of animal-derived ingredients
- General temperature range: -100°F (-73.3°C) to 400°F (204.4°C)
- Resists temperature extremes, compression set, chemical attack, ozone, radiation, moisture and environmental exposure
- Sterilizable/autoclavable
- Documented lot traceable with identification on packaging
- Documented quality control per ISO 9001:2015



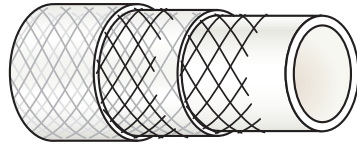
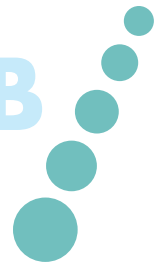
Liner

**Complete validation package available on request**

**Full BPOG standardized extractables test results available on request**

AdvantaSil APSH-DB Double-Braid Reinforced Silicone Hose is not intended for implantation and is not to be used for continuous steam applications.

www.advantapure.com



Product Number	Nominal I.D.		Wall		O.D.		Working Pressure at 70°F (21.1°C)		Burst Pressure at 70°F (21.1°C)		Bend Radius		Standard Available Length (ft.)
	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(PSI)	(Bar)	(PSI)	(Bar)	(in.)	(mm)	
APSH-DB-0500	.500	12.70	.195	4.95	.890	22.60	150	10.34	600	41.36	2.5	63.5	50
APSH-DB-0750	.750	19.05	.215	5.46	1.180	29.97	187.5	12.93	750	51.72	3.0	76.2	50
APSH-DB-1000	1.000	25.40	.215	5.46	1.430	36.32	125	8.62	500	34.48	3.5	88.9	25, 50

Sold by standard coil length only. Add length suffix code to product number when ordering—see the **Coil Length Legend** at right for length suffix codes. Example: 50 feet of .500 in. I.D. hose is product number APSH-DB-0500L.

**Coil Length Legend:**

- P = 25 feet
- L = 50 feet

Custom lengths, color coding, 316L stainless steel sanitary fittings, hose assemblies, and/or packaging available.

Coils are supplied double bagged in heat-sealed polybags and bulk packed. Contact your AdvantaPure Sales Representative for other packaging options.

**NOTE:** When products are used as part of an assembly, the pressure ratings of fittings may be less than hose pressure ratings above. Please consult your sales representative.





# AdvantaSil®



## APSW 4-PLY, WIRE-REINFORCED, MANDREL-WRAPPED SILICONE SUCTION HOSE

PLATINUM-CURED, SMOOTH OR CONVOLUTED O.D.

*Low volatile grade, platinum-cured silicone hose for critical pharmaceutical, biopharm, cosmetic, and food applications comprises the liner of AdvantaSil APSW. The liner is slipped onto a mandrel and wrapped with polyester mesh fabric, 302/304 stainless steel reinforcing wire and additional silicone. It is then cured into a homogeneous hose, enhancing its pressure and vacuum capabilities.*

*APSW has undergone extensive physical, chemical and biological testing and meets USP Class VI, FDA CFR 177.2600, ISO 10993 and European Pharmacopoeia 3.1.9 standards.*

### KEY FEATURES

- Spiral wrapped for increased working pressures and an improved range of flexibility
- Low volatile grade silicone suitable for pharmaceutical, biopharm, cosmetic, and food applications such as ultrapure water transfer, food processing, washdown stations, skid systems, and other suction and discharge uses
- Hardness value of 70 Shore A
- Rated for full vacuum
- Crush and kink resistant; durable and heavy-duty
- Available in sizes up to 4" I.D.
- Liner certified free of animal-derived ingredients
- General temperature range: -100°F (-73.3°C) to 350°F (176.6°C)
- Resists temperature extremes, chemical attack, ozone, radiation, moisture and environmental exposure
- Sterilizable by autoclave, CIP and SIP processes
- Documented lot traceable with identification on packaging
- Documented quality control per ISO 9001:2015



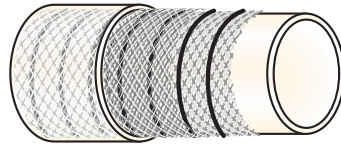
Liner

**Complete validation package available on request**

AdvantaSil APSW Wire Reinforced Silicone Suction Hose is not intended for implantation and is not to be used for continuous steam applications.

www.advantapure.com





Product Number	Nominal I.D.		O.D.		Vacuum Rating	Working Pressure		Burst Pressure		Min. Bend. Radius	Weight per		Standard Length	
	(in.)	(mm)	(in.)	(mm)	(in./Hg.)	at 70°F (21.1°C)	at 70°F (21.1°C)	at 70°F (21.1°C)	at 70°F (21.1°C)	(in.)	Foot / Meter	(lb)	(kg)	(ft.)
			(reference)			(PSI)	(Bar)	(PSI)	(Bar)					
<b>APSW-SP — SMOOTH O.D., SPIRAL WRAPPED</b>														
APSW-SP-0500	.500	12.70	.910	23.11	>29	380	26.2	1520	104.8	1.25	.281	.418	12	
APSW-SP-0750	.750	19.05	1.16	29.46	>29	315	21.7	1260	86.9	1.75	.359	.534	12	
APSW-SP-1000	1.000	25.40	1.41	35.81	>29	250	17.2	1000	68.9	3.0	.438	.652	12	
APSW-SP-1500	1.500	38.10	1.91	48.51	>29	250	17.2	1000	68.9	4.0	.685	1.019	12	
APSW-SP-2000	2.000	50.80	2.41	61.21	>29	205	14.1	820	56.5	6.0	.875	1.302	12	
APSW-SP-2500	2.500	63.50	2.91	73.91	>29	185	12.8	740	51.0	10.5	1.050	1.562	12	
APSW-SP-3000	3.000	76.20	3.41	86.61	>29	190	13.1	760	52.4	CF	1.230	1.830	12	
APSW-SP-4000	4.000	101.60	4.41	112.01	>29	140	9.7	560	38.6	CF	1.710	2.545	12	
<b>APSW-SPC — CONVOLUTED O.D., SPIRAL WRAPPED</b>														
APSW-SPC-0500	.500	12.70	.950	24.13	>29	400	27.6	1600	110.3	1.0	.281	.418	12	
APSW-SPC-0750	.750	19.05	1.20	30.48	>29	338	23.3	1350	93.1	1.5	.359	.534	12	
APSW-SPC-1000	1.000	25.40	1.45	36.83	>29	288	19.9	1150	79.3	2.5	.438	.652	12	
APSW-SPC-1500	1.500	38.10	1.95	49.53	>29	250	17.2	1000	68.9	3.0	.685	1.019	12	
APSW-SPC-2000	2.000	50.80	2.45	62.23	>29	205	14.1	820	56.5	5.5	.875	1.302	12	

Nominal wall dimensions for all sizes of APSW-SP are .205" or 5.21mm; for APSW-SPC: .225" or 5.72mm. Custom lengths and hose assemblies with an assortment of fittings are available. CF = Consult Factory

**NOTE:** When products are used as part of an assembly, the pressure ratings of fittings may be less than hose pressure ratings above. Please consult your sales representative.



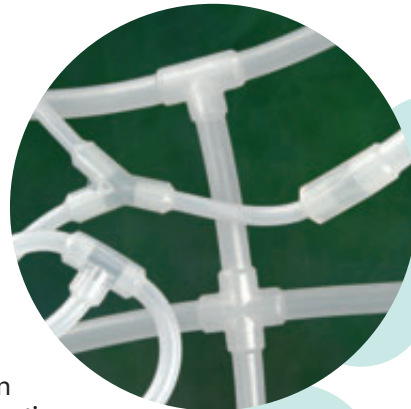
# OTHER SILICONE PRODUCTS

## SINGLE-USE MOLDED TUBING MANIFOLD ASSEMBLIES

FOR PRODUCT SAMPLING & STORAGE APPLICATIONS

Leak-proof Single-Use Molded Tubing Manifolds are custom made to meet your product sampling and storage needs in drug and vaccine production.

Manufactured from platinum-cured Class VI silicone, molded manifolds eliminate the need for barbed fittings while providing a seamless transition from tubing to connection for a continuous, unrestricted flow. Designs range from simple molded sanitary ends to complex configurations with varying lengths of tubing and several molded connections.



- Molded tubing manifolds eliminate leaks, entrapment, and contamination issues associated with barbed fittings
- Custom manufactured with Y's, T's, crosses, reducers, mini and standard Tri-Clamps®, stoppers and other container closures, and tubing
- Provides a smooth inner surface without seams or crevices for even, uninterrupted flow
- Reduces end-user component inventory, plus assembly labor time and expense
- Also reduces downtime by eliminating certain cleaning validation requirements
- Sterilizable by autoclave and gamma radiation
- Available in AdvantaSil® Ultra Low Temperature tubing or AdvantaFlex® biopharmaceutical grade tubing



www.advantapure.com

Visit [www.advantapure.com/single-use-molded-manifolds.htm](http://www.advantapure.com/single-use-molded-manifolds.htm)  
or contact AdvantaPure to learn more

# BIOCLOSURE<sup>®</sup> SYSTEMS

## STOPPERS, CAPS & INSERTS

Manufactured from USP Class VI, platinum-cured silicone elastomer, AdvantaPure's BioClosure container closures offer the utmost in purity. They're biologically safe and work with vessels of glass, metal or plastic. Stoppers, caps, inserts for True Unions and GL45's, and other styles, with or without tubing, are available.



- Smooth, gap-free surfaces for a true seal and a secure environment
- Silicone elastomer meets USP Class VI, FDA CFR 177.2600, ISO E10993, European Pharmacopoeia 3.1.9 and other industry standards
- Longer life expectancy, more consistent performance, and higher purity than parts made from other rubber materials
- Resistant to cracking and particle migration
- Silicone withstands temperatures ranging between -169.6°F (-112°C) and 400°F (204.4°C), depending on the silicone formulation
- For use with flexible container systems, laboratory apparatus and bottles, and sampling and storage receptacles of glass, plastics, or metal
- Single use applications reduce cleaning and validation requirements and costs, plus cross contamination risks
- Available with tubing installed
- Also available in AdvantaFlex<sup>®</sup> biopharmaceutical grade TPE

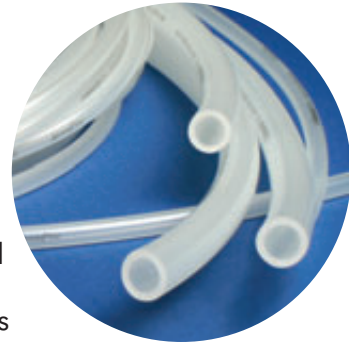


Visit [www.advantapure.com/bioclosure-container-closures.htm](http://www.advantapure.com/bioclosure-container-closures.htm)  
or contact AdvantaPure to learn more

# OTHER PRODUCTS



AdvantaFlex TPE (thermoplastic elastomer) tubing addresses the need for a flexible, translucent, sterilizable, heat sealable, weldable and moldable biopharmaceutical tubing for fluid processing. AdvantaFlex maintains its physical properties following sterilization processes, resists kinking and does not become gummy. Learn more at [www.advantapure.com/advantaflex.htm](http://www.advantapure.com/advantaflex.htm).



## APFOS STAINLESS STEEL OVERBRAIDED PTFE HOSE

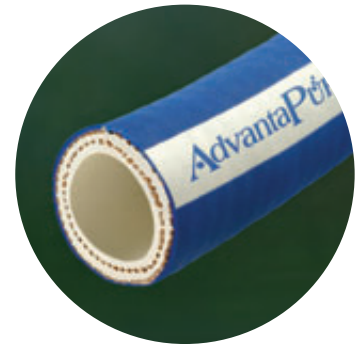
*White PTFE liner; smooth or convoluted I.D.*

APFOS handles temperature variations from -100°F to 450°F (-73.3°C to 232.2°C) and offers excellent flow properties. An optional silicone jacket makes for easier handling. Visit [www.advantapure.com/apfos-ptfe-hose.htm](http://www.advantapure.com/apfos-ptfe-hose.htm) for additional product specifications.

## APEWF WIRE REINFORCED EPDM HOSE

*White EPDM liner*

Reinforced with a wire helix and suitable for suction or discharge applications, APEWF offers flexibility with a smooth, sanitary inner surface for unrestricted flow — ideal for wash-down stations, coolant transfer and glycol lines. Learn more at [www.advantapure.com/apewf-wire-reinforced-epdm-hose.htm](http://www.advantapure.com/apewf-wire-reinforced-epdm-hose.htm).



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Most products



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