

# AdvantaSil™ APSPG

## PUMP GRADE SILICONE TUBING

Pharma & Biopharmaceutical Applications  
PRODUCT DATASHEET



**AdvantaSil™ APSPG (AdvantaPure Silicone Pump Grade)** is a high-performance, platinum-cured silicone tubing designed for peristaltic pump applications in the pharmaceutical and biopharmaceutical industries. Engineered for durability, this translucent tubing provides excellent fluid visibility and consistent performance through repeated pump cycles. Its formulation ensures reliable operation even under continuous compression and release, significantly outlasting standard silicone tubing.

**PHARMASEP**

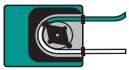
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**AdvantaPURE™**

## KEY FEATURES & BENEFITS

- Translucent for fluid flow visibility
- Excellent flexibility
- General temperature range -50°F to 400°F (-45°C to 204.4°C)
- Custom lengths, sizes and packaging available
- Extruded and packaged in an ISO Class 7 cleanroom
- Available as leak-proof overmolded connections
- Manufactured with a focus on [sustainability](#)
- Comprehensive [validation package](#) to expedite qualification and validation

## TYPICAL APPLICATIONS



Peristaltic pump



Bioreactor process lines



Separation and purification



Liquid dispensing and filing



Cell culture and harvest



Media preparation



Ideal for use in assemblies and bag manifolds as pump segment

## TYPICAL PHYSICAL PROPERTIES

	ASTM Method	Value
Durometer, Shore A	D2240	50
Specific Gravity	D792	1.12
Ultimate Tensile Strength, psi (MPa)	D412	1100
Ultimate Elongation, %	D412	450
Tensile Modulus @100%, psi (MPa)	D412	200
Tear Strength, Die B, ppi (kN/M)	D624	100
Compression Set, %	D395B	30

## CHEMICAL COMPATIBILITY

Acids, Dilute / Weak	Test Before Using
Acids, Strong / Concentrated	Test Before Using
Bases, Dilute / Weak	Acceptable
Bases, Strong / Concentrated	Test Before Using
Salts	Acceptable
High Purity Water	Test Before Using
Oil/Water Emulsion	Test Before Using
Alcohol	Test Before Using
Organic Solvent	Test Before Using

## STERILITY

Available with validated sterility assurance of  $10^{-6}$  via gamma irradiation per ISO 11137 method VDmax 25. A full sterility validation guide is available upon request.

## STERILIZATION METHODS

Autoclave	One-time cycle at 121°C, 30 min
Gamma Irradiation	Up to 45 kGy

## COMPLIANT OR TESTED TO

- USP <665> Extractables/Leachables
- USP <87> Cytotoxicity MEM Elution
- USP <88> Class VI
- USP <85> Bacterial Endotoxin
- European Pharmacopeia 3.1.9
- ISO 10993-5 L329 MEM Elution/Cytotoxic
- RoHS Compliant
- ADCF Compliant

[Review the Regulatory Overview chart](#)

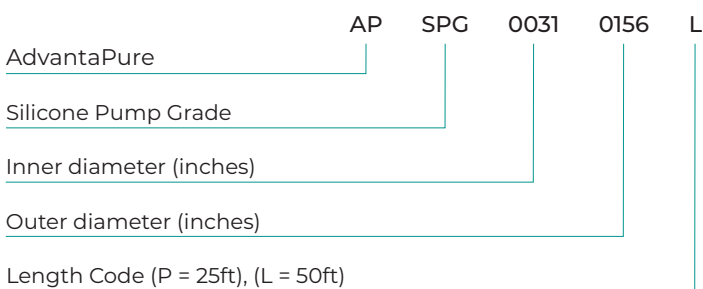
## PRODUCT SPECIFICATIONS

Part Number	Catalog Number	I.D.		Wall		O.D.		Standard Available Lengths	
		in	mm	in	mm	in	mm	ft	m
A7020078	APSPG-0031-0156	0.031	0.79	0.063	1.59	0.156	3.97	25	7.62
A7020130	APSPG-0063-0188	0.063	1.59	0.063	1.59	0.188	4.76	25	7.62
A70200234	APSPG-0125-0250	0.125	3.18	0.063	1.59	0.250	6.35	50	15.24
A7020390	APSPG-0188-0313	0.188	4.76	0.063	1.59	0.313	7.94	50	15.24
A7020598	APSPG-0250-0375	0.250	6.35	0.063	1.59	0.375	9.52	50	15.24
A7020650	APSPG-0250-0438	0.250	6.35	0.094	2.38	0.438	11.11	50	15.24
A7020676	APSPG-0250-0500	0.250	6.35	0.125	3.18	0.500	12.70	50	15.24
A7020702	APSPG-0313-0500	0.313	7.94	0.094	2.38	0.500	12.70	50	15.24
A7020910	APSPG-0375-0563	0.375	9.52	0.094	2.38	0.563	14.29	50	15.24
A7020962	APSPG-0375-0625	0.375	9.52	0.125	3.18	0.625	15.88	50	15.24
A7021326	APSPG-0500-0750	0.500	12.70	0.125	3.18	0.750	19.05	50	15.24

**NOTE:** Not all standard part numbers are stocked items. For the up-to-date list of stocked sizes and lengths available, please contact your sales representative.

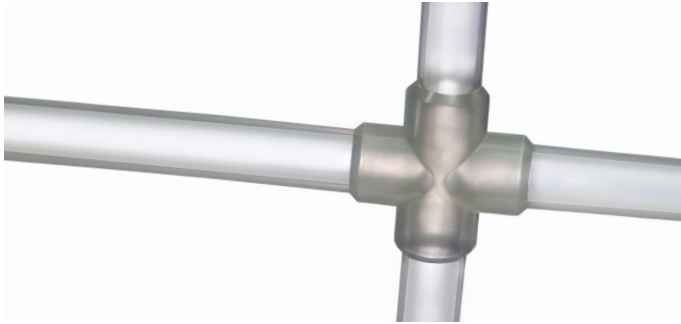
## CATALOG NUMBER KEY

Sold by standard length only. Add length suffix code to product number when ordering.  
 Example: 50 ft. of 0.031 in. I.D. x 0.156 in. O.D. tubing is product number APSPG-0031-0156L.



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.

**NOTE:** The data listed throughout this datasheet is meant only as a guide to aid in the design and is believed to be reliable; however, nothing stated shall constitute a guarantee or warranty for any application. Product field testing should be performed to find the actual values for a specific application.



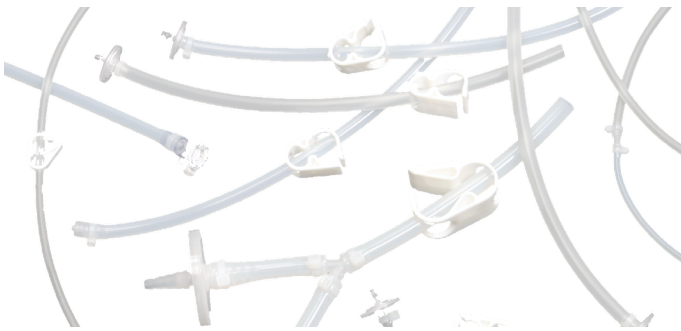
### Overmolding - Connections and Assemblies

AdvantaSil APSPG sizes can be integrated into our assemblies and manifolds. Choose from standard available wyes, tees, sanitary ends, crosses, and reducers, or opt for our custom overmolding design services to create custom pieces for your unique application.



### Molded Tubing Ends

Ideal for aseptic transfer and processing, overmolded with multi-port sanitary clamp and ends to form a smooth fluid path.



### Tubing Kits

Built-to-order in an ISO Class 7 cleanroom, assembled with various components for convenience and efficiency.



### Sterile Bottle Assemblies

Provide a ready-to-use, cost-effective solution for aseptic sampling, cell growth, and filling applications. The robust molded BioClosure™ is designed for storage and containment.



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The AdvantaPure line of fluid transfer systems for the biopharma and pharmaceutical market are a line of the NewAge Industries family of products and services.

**WARRANTY:** Products of NewAge Industries, Inc.™ the parent company of the AdvantaPure™ division are warranted to be free from defects in material and workmanship. Any product found to carry such defects will be replaced without charge. This warranty is limited only to the replacement of AdvantaPure products, item for item, which after examination by AdvantaPure are deemed defective. The AdvantaPure division specifically disclaims any other liability. The data supplied is provided as a helpful guideline and is believed to be reliable; however, nothing stated shall constitute a guarantee, recommendation, or warranty for any application.

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