AdvantaSil™ APST

PLATINUM-CURED SILICONE TUBING

Pharma & Biopharmaceutical Applications

PRODUCT DATASHEET

PHARMASEP

Always by your side

AdvantaSil™ APST is a translucent platinum-cured silicone single-use tubing widely used for fluid transfer in critical pharmaceutical and biopharmaceutical applications, where reliability, purity, and sustainability are top priorities. AdvantaSil APST tubing is made in Class 7 cleanrooms, and it is a material of choice in overmolding applications as leak-proof molded connections, ensuring optimal fluid management integrity. AdvantaSil APST is an ideal option for quality and performance.

AdvantaPURE™

KEY FEATURES & BENEFITS

- Translucent for fluid flow visibility
- Short-term peristaltic pump applications
- Extruded, assembled, and packaged in an ISO Class 7 cleanroom
- General temperature range -50°F to 400°F (-45°C to 204.4°C)
- Custom lengths, sizes, and packaging available
- Manufactured with a focus on sustainability
- Wide temperature range and low compression set
- Available as leak-proof overmolded connections
- Security of supply with redundant manufacturing sites
- Comprehensive validation package to expedite qualification and validation

TYPICAL APPLICATIONS



Sterile filling and single-use transfer



Short-term peristaltic pumping



Bioreactor process lines



Biopharmaceutical production, sampling and delivery systems



Filtration



Cell culture operations



Buffer and media preparation



Harvest and fermentation



Ideal for use in assemblies and bag manifolds

TYPICAL PHYSICAL PROPERTIES

	ASTM Method	Value
Durometer, Shore A	D2240	50 +/- 5
Specific Gravity	D792	1.15
Ultimate Tensile Strength, psi (MPa)	D412	1349 (9.2)
Ultimate Elongation, %	D412	900
Tensile Modulus @100%, psi (MPa)	D412	190 (1.3)
Tear Strength, Die B, ppi (kN/M)	D624	250 (44)
Compression Set, %	D395B	20

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 50 kGy
X-Ray	Up to 50 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 10993-3 (Ames Genotoxicity)
- RoHS Compliant
- ADCF Compliant

Review the Regulatory Overview chart

PRODUCT SPECIFICATIONS

Part Number	Catalog Number	I.D.		Wall		O.D.		Working Pressure 3:1 Safety Factor 70°F (21.1°C)		Bend Radius		Standard Available Lengths	
		in	mm	in	mm	in	mm	PSI	Bar	in	mm	ft	m
A7000591	APST-0030-0160	0.030	0.76	0.065	1.65	0.160	4.06	53	3.7	0.125	3.18	50	15.24
A7001098	APST-0063-0125	0.063	1.59	0.031	0.79	0.125	3.18	22	1.5	0.125	3.18	50	15.24
A7001111	APST-0063-0188	0.063	1.59	0.063	1.59	0.188	4.76	33	2.3	0.125	3.18	50	15.24
A7001280	APST-0078-0141	0.078	1.98	0.031	0.79	0.141	3.58	17	1.2	0.250	6.35	50	15.24
A7001475	APST-0094-0219	0.094	2.38	0.063	1.59	0.219	5.56	15	1.7	0.125	3.18	100	30.48
A7001488	APST-0094-0281	0.094	2.38	0.094	2.38	0.281	7.14	34	2.3	0.125	3.18	100	30.48
A7001657	APST-0125-0250	0.125	3.18	0.063	1.59	0.250	6.35	23	1.6	0.250	6.35	50, 100, 500	15.24, 30.48, 152.4
A7001670	APST-0125-0313	0.125	3.18	0.094	2.38	0.313	7.94	29	2.0	0.250	6.35	50	15.24
A7001683	APST-0125-0375	0.125	3.18	0.125	3.18	0.375	9.53	37	2.6	0.125	3.18	50	15.24
A7001839	APST-0156-0281	0.156	3.97	0.063	1.59	0.281	7.14	N/A	N/A	N/A	N/A	100	30.48
A7001865	APST-0156-0406	0.156	3.97	0.125	3.18	0.406	10.31	33	2.3	0.250	6.35	50	15.24
A7002021	APST-0188-0313	0.188	4.76	0.063	1.59	0.313	7.94	16	1.1	0.375	9.53	50	15.24
A7002034	APST-0188-0375	0.188	4.76	0.094	2.38	0.375	9.53	21	1.4	0.375	9.53	50	15.24
A7002047	APST-0188-0438	0.188	4.76	0.125	3.18	0.438	11.11	25	1.7	0.250	6.35	50	15.24
A7002203	APST-0250-0375	0.250	6.35	0.063	1.59	0.375	9.53	13	0.9	0.729	18.52	50, 100	15.24, 30.48
A7002216	APST-0250-0438	0.250	6.35	0.094	2.38	0.438	11.11	18	1.2	0.500	12.70	50, 100, 300	15.24, 30.48, 91.44
A7002229	APST-0250-0500	0.250	6.35	0.125	3.18	0.500	12.70	22	1.5	0.396	10.06	50, 100	15.24, 30.48
A7002372	APST-0313-0375	0.313	7.94	0.031	0.79	0.375	9.53	N/A	N/A	N/A	N/A	50, 100	15.24, 30.48
A7002385	APST-0313-0438	0.313	7.94	0.063	1.59	0.438	11.11	11	0.8	0.958	24.33	25, 50	7.62, 15.24
A7002398	APST-0313-0500	0.313	7.94	0.094	2.38	0.500	12.70	17	1.2	0.750	19.05	50, 100	15.24, 30.48
A7002411	APST-0313-0563	0.313	7.94	0.125	3.18	0.563	14.30	21	1.4	0.500	12.70	50, 100	15.24, 30.48
A7002567	APST-0375-0500	0.375	9.53	0.063	1.59	0.500	12.70	10	0.7	1.271	32.28	50, 100	15.24, 30.48
A7002580	APST-0375-0563	0.375	9.53	0.094	2.38	0.563	14.30	16	1.1	0.938	24.83	50, 100	15.24, 30.48
A7002593	APST-0375-0625	0.375	9.53	0.125	3.18	0.625	15.88	16	1.1	0.750	19.05	25, 50, 100, 150	7.62, 15.24, 30.48, 45.72
A7002749	APST-0500-0625	0.500	12.70	0.063	1.59	0.625	15.88	N/A	N/A	N/A	N/A	50	15.24
A7002762	APST-0500-0688	0.500	12.70	0.094	2.38	0.688	17.48	11	0.8	1.500	38.10	50	15.24
A7002775	APST-0500-0750	0.500	12.70	0.125	3.18	0.750	19.05	12	0.8	1.188	30.18	50, 100	15.24, 30.48
A7002957	APST-0625-0875	0.625	15.88	0.125	3.18	0.875	22.23	11	0.8	1.708	43.38	50, 100	15.24, 30.48
A7002970	APST-0625-1000	0.625	15.88	0.188	4.76	1.000	25.40	16	1.1	1.208	30.68	25, 50	7.62, 15.24
A7003139	APST-0750-1000	0.750	19.05	0.125	3.18	1.000	25.40	10	0.7	2.542	64.57	50, 100	15.24, 30.48
A7003152	APST-0750-1125	0.750	19.05	0.188	4.76	1.125	25.58	14	1.0	1.625	41.28	25, 50	7.62, 15.24
A7003295	APST-0875-1000	0.875	22.23	0.063	1.59	1.000	25.40	N/A	N/A	N/A	N/A	50	15.24
A7003503	APST-1000-1250	1.000	25.40	0.125	3.18	1.250	31.75	8	0.6	4.542	115.37	50	15.24
A7003516	APST-1000-1375	1.000	25.40	0.188	4.76	1.375	34.93	11	0.8	3.250	82.55	25, 50	7.62, 15.24
A7003529	APST-1000-1500	1.000	25.40	0.250	6.35	1.500	38.10	13	0.9	N/A	N/A	50	15.24

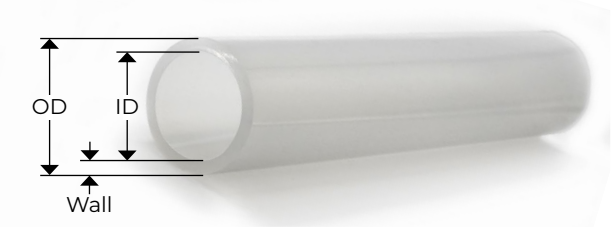
NOTE: *Not all standard part numbers are stocked items. For the up-to-date list of stocked sizes and lengths available, please contact your sales representative.*

CATALOG NUMBER KEY

Sold by standard coil length only. Add length suffix to catalog number if this is being used to order.
Example: 50 ft. of 0.030 in. I.D. x 0.160 in. O.D. tubing is product number APST-0030-0160L.

AP ST 0030 0160 L

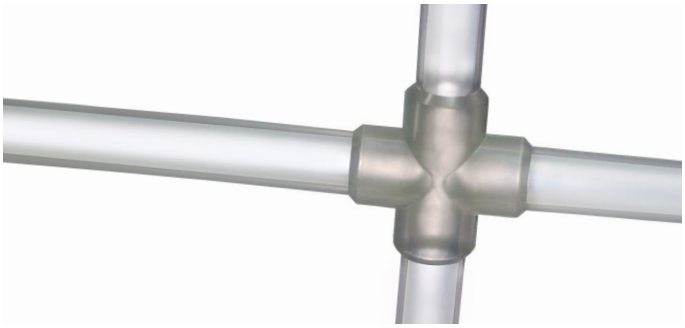
- AP — AdvantaPure
- ST — Silicone, platinum-cured Tubing
- 0030 — Inner diameter (inches)
- 0160 — Outer diameter (inches)
- L — Length Code (P = 25 ft), (L = 50 ft), (K = 100 ft)



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

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.*

ADVANTASIL APST INTEGRATION OPTIONS



Overmolding - Connections and Assemblies

AdvantaSil APST 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.

Always by your side

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