



PHARMA & BIOPHARMACEUTICAL APPLICATIONS
PRODUCT DATASHEET



PLATINUM CURED SILICONE TUBING

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 a Class 7 Cleanroom, and it is a material of choice in overmolding applications as leak-proof molded connections, ensuring optimal fluid management integrity. AdvantaSil is an ideal choice for quality and performance.



KEY FEATURES & BENEFITS

- Translucent for fluid flow visibility
- Peristaltic pump application
- Wide temperature range, low compression set, and good UV resistance
- Available as leak-proof simple or complex overmolded connections and tubing
- Operating temperature range -50°F to +400°F (-45°C to +204°C)
- Custom lengths, sizes, and packaging available
- Security of supply with redundant manufacturing sites
- Manufactured with a focus on sustainability
- Comprehensive [Validation Package](#) to expedite qualification and validation, including full extractables report (BPOG)

TYPICAL APPLICATIONS



Sterile filling and single-use transfer



Peristaltic pumping application



Bioreactor process lines



Pharmaceutical production, sampling and delivery systems



Filtration



Cell culture operations



Buffer and media preparation



Harvest and fermentation



Ideal for use in assemblies, molded, and bags manifolds

PHYSICAL PROPERTIES

	ASTM Method	Value
Durometer, Shore A	D2240	50 +/- 5
Specific Gravity	D792	1.15
Ultimate Tensile, psi (MPa)	D412	1348 (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

COMPLIANT OR TESTED TO

BPOG Extractables/Leachables
 USP <87> Cytotoxicity MEM Elution
 USP <88> Class VI
 USP <85> Bacterial Endotoxin
 European Pharmacopeia 3.1.9
 ISO 10993-5 (Cytotoxicity, In Vitro)
 RoHS Compliant
 REACH Compliant
 ADCF Compliant

[Review the Regulatory Overview chart](#)

STERILITY

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

STERILIZATION METHODS

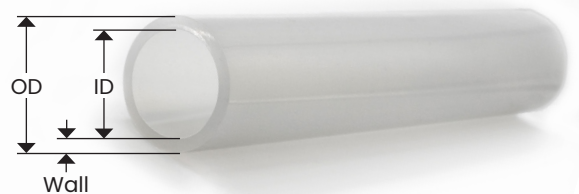
Autoclave	One-time cycle at 121°C, 30 min.
Gamma Irradiation	One-time up to 40 kGy

PRODUCT SPECIFICATIONS

Part No.	Catalog No.	I.D.		Wall		O.D.		Working Pressure 70°F (21.1°C)		Standard Lengths	
		in	mm	in	mm	in	mm	PSI	Bar	ft	m
A7000591	APST-0030-0160	0.030	0.76	0.065	1.65	0.160	4.06	53	3.7	50	15.24
A7001098	APST-0063-0125	0.063	1.59	0.031	0.79	0.125	3.18	22	1.5	50	15.24
A7001111	APST-0063-0188	0.063	1.59	0.063	1.59	0.188	4.76	33	2.3	50	15.24
A7001280	APST-0078-0141	0.078	1.98	0.031	0.79	0.141	3.58	17	1.2	50	15.24
A7001475	APST-0094-0219	0.094	2.38	0.063	1.59	0.219	5.56	25	1.7	100	30.48
A7001488	APST-0094-0281	0.094	2.38	0.094	2.38	0.281	7.14	34	2.3	100	30.48
A7001657	APST-0125-0250	0.125	3.18	0.063	1.59	0.250	6.35	23	1.6	50, 100, 500	15.24, 30.48, 152.40
A7001670	APST-0125-0313	0.125	3.18	0.094	2.38	0.313	7.94	29	2.0	50	15.24
A7001683	APST-0125-0375	0.125	3.18	1.25	3.18	0.375	9.53	37	2.6	50	15.24
A7001865	APST-0156-0406	0.156	3.97	0.125	3.18	0.406	10.31	33	2.3	50	15.24
A7002021	APST-0188-0313	0.188	4.76	0.063	1.59	0.313	7.94	16	1.1	50	15.24
A7002034	APST-0188-0375	0.188	4.76	0.094	2.38	0.375	9.53	21	1.4	50	15.24
A7002047	APST-0188-0438	0.188	4.76	1.25	3.18	0.438	11.11	25	1.7	50	15.24
A7002203	APST-0250-0375	0.250	6.35	0.063	1.59	0.375	9.53	13	0.9	50, 100	25.40
A7002216	APST-0250-0438	0.250	6.35	0.094	2.38	0.438	11.11	18	1.2	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	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	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	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	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	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	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	25, 50, 100, 150	7.62, 15.24, 30.48, 45.72
A7002762	APST-0500-0688	0.500	12.70	0.094	2.38	0.688	17.48	11	0.8	50	15.24
A7002775	APST-0500-0750	0.500	12.70	0.125	3.18	0.750	19.05	12	0.8	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	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	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	50, 100	15.24, 30.48
A7003152	APST-0750-1125	0.750	19.05	0.188	6.35	1.125	28.58	14	1.0	25, 50	7.62, 15.24
A7003503	APST-1000-1250	1.000	25.40	0.125	3.18	1.250	31.75	8	0.6	50	15.24
A7003516	APST-1000-1375	1.000	25.40	0.188	4.76	1.375	34.93	11	0.8	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	50	15.24

Sold by standard coil length only. Add length suffix code to product number when ordering. **Example:** 50 ft. of .030 in. I.D. x 0.160 in. O.D. tubing is catalog number APST-0030-0160L.

AdvantaPure®	AP	ST	0300	0160	L
Silicone, platinum-cured Tubing					
Inner diameter (inches)					
Outer diameter (inches)					
*Length code (P = 25ft), (L = 50ft), (K = 100ft), (S = 150, 300, or 500ft for spools)					



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.

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® PLATINUM CURED SILICONE INTEGRATION OPTIONS

Overmolded Connections: Wyes, tees, sanitary ends, intersections, and reducers.

Molded Assemblies: All AdvantaSil APST sizes can be integrated into our AdvantaPure assemblies and manifolds, eliminating mechanical connections, and providing a smooth, leak-free inner surface.

Sealed Tubing Ends: Weld to bags or container closures for sampling and storage applications. Ideal for reducing operational costs, improving production efficiencies, and reducing cross-contamination.

Molded Tubing Ends: Ideal for aseptic transfer and processing, over-molded with multi-tube TC's and sanitary ends to form a smooth fluid path.

Bioreactor Tubing Kits: Built-to-order in an ISO Class 7 clean room, 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 application. The robust molded closure design features a continuous flow path.



WARRANTY: NewAge Industries AdvantaPure products 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 NewAge Industries AdvantaPure products, item for item, which after examination by NewAge Industries AdvantaPure are deemed defective. NewAge Industries AdvantaPure 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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