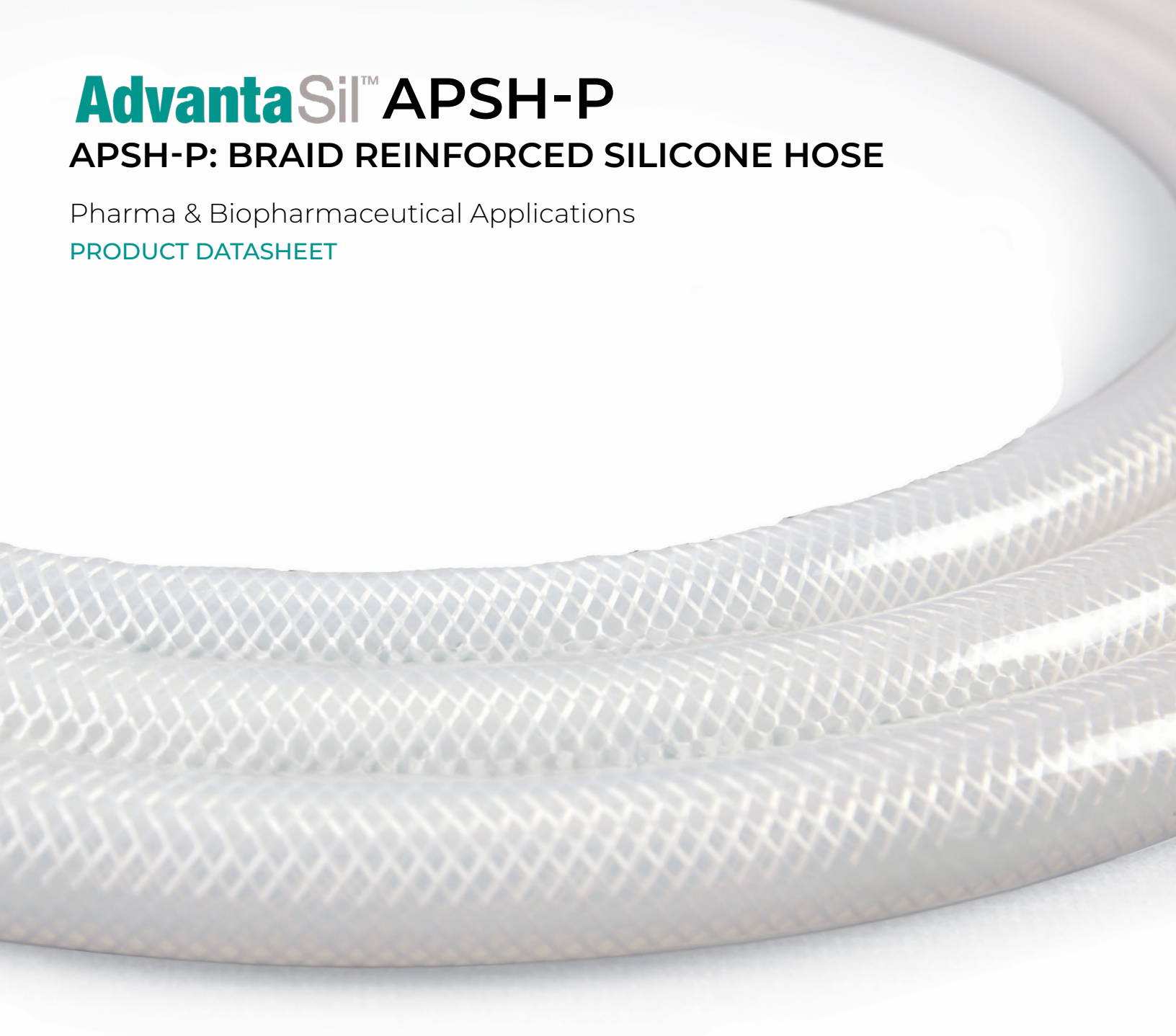
AdvantaSil™ APSH-P

APSH-P: BRAID REINFORCED SILICONE HOSE

Pharma & Biopharmaceutical Applications

PRODUCT DATASHEET



AdvantaSil™ APSH-P is a braided reinforced platinum-cured silicone hose designed to enhance high-pressure fluid transfer in pharmaceutical and biopharmaceutical manufacturing processes. This hose features polyester yarn braiding within its wall structure to withstand high pressures. APSH-P undergoes rigorous validation and qualification to ensure the highest quality and reliability.

PHARMASEP

Always by your side

AdvantaPURE™

KEY FEATURES & BENEFITS

- Flexible material with improved bend radius over wire-reinforced hose
- General temperature range -100°F to 400°F (-73.3°C to 204.4°C)
- Polyester braid reinforced for withstanding higher pressures and to increase resistance kinking
- Produced, assembled, and packaged in an ISO 7 cleanroom
- Custom lengths, sizes, and packaging available
- Security of supply chain with redundant manufacturing sites
- Wide range of sizes from 0.125" (3.18 mm) through 1.0" (25.4 mm) I.D.
- Manufactured with a focus on sustainability
- Comprehensive validation package to expedite qualification and validation

TYPICAL APPLICATIONS

High-pressure fluid transfer and filtration applications

Critical downstream applications such as vessel or tank transfer

Large volume filling 200+ liter bioreactors

Filtration

Vacuum or drain applications

TFF, drain, and flush hoses

Cell culture

Load cell

TYPICAL PHYSICAL PROPERTIES*

	ASTM Method	Value
Durometer, Shore A	D2240	70
Specific Gravity	D792	1.22
Ultimate Tensile Strength, psi (MPa)	D412	1320
Ultimate Elongation, %	D412	630
Tensile Modulus @100%, psi (MPa)	D412	500
Tear Strength, Die B, ppi (kN/M)	D624	320
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	Acceptable
Oil/Water Emulsion	Test Before Using
Alcohol	Test Before Using
Organic Solvent	Not Recommended

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

WARNING: *APSH-P silicone hose should not be utilized in hot oil or acid applications.*

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 (Cytotoxicity, In Vitro)
- RoHS Compliant
- ADCF Compliant

Review the Regulatory Overview chart

***NOTE:** Testing based on liner only.

PRODUCT SPECIFICATIONS

Part Number	Catalog Number	I.D.		Wall		O.D.		Working Pressure at 70°F (21.1°C)		Bend Radius		Standard Available Lengths	
		in	mm	in	mm	in	mm	PSI	Bar	in	mm	ft	m
A7100041	APSH-P-0063	0.063	1.59	0.105	2.67	0.282	7.16	200	13.79	N/A	N/A	50	15.24
A7100106	APSH-P-0125	0.125	3.18	0.120	3.05	0.375	9.53	175	12.07	N/A	N/A	50	15.24
A7100158	APSH-P-0188	0.188	4.76	0.130	3.30	0.462	11.73	170	11.72	N/A	N/A	50	15.24
A7100210	APSH-P-0250	0.250	6.35	0.125	3.17	0.500	12.70	140	9.65	1	25.4	50	15.24
A7100275	APSH-P-0375	0.375	9.53	0.125	3.17	0.625	15.88	140	9.65	1	25.4	50	15.24
A7100327	APSH-P-0500	0.500	12.70	0.187	4.75	0.875	22.22	105	7.24	3	76.2	50	15.24
A7100405	APSH-P-0625	0.625	15.88	0.170	4.32	0.990	25.15	100	6.90	3	76.2	25, 50	7.62, 15.24
A7100470	APSH-P-0750	0.750	19.05	0.175	4.45	1.125	28.58	90	6.21	4	101.6	50	15.24
A7100522	APSH-P-0875	0.875	22.23	0.180	4.57	1.260	32.00	65	4.48	5	127.0	50	15.24
A7100587	APSH-P-1000	1.000	25.40	0.190	4.83	1.405	35.69	60	4.14	6	152.4	25, 50	7.62, 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 of 50 ft. Add length suffix to part number if this is being used to order.
Example: 50 ft. of .250 in. I.D. hose is product number APSH-P-0250L.

AP SH P 0250 L

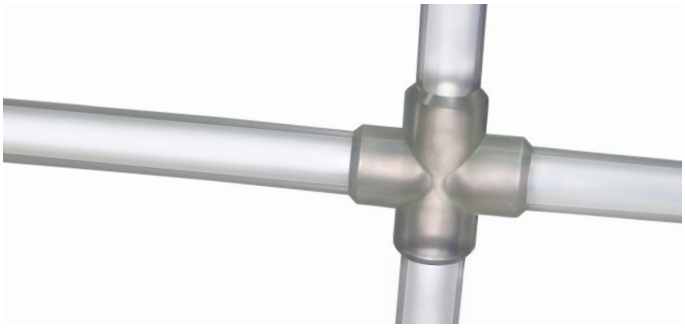
- AP — AdvantaPure
- SH — Silicone Hose
- P — Polyester
- 0250 — Inner diameter (inches)
- L — Length code (P = 25ft), (L = 50ft)

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. Custom lengths, a variety of colored jackets (AdvantaLabel), 316L stainless steel sanitary fittings, hose assemblies, and packaging available. Coils are supplied double bagged in heat-sealed polybags and bulk placed. Contact your AdvantaPure sales respresentative for other packaging options.

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

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 APSH-P INTEGRATION OPTIONS



Overmolding - Connections and Assemblies

AdvantaSil APSH-P 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 ends to form a smooth fluid path.

Crimped Assemblies up to 1” ID

Upon request, assemblies can be built-to-order in an ISO Class 7 cleanroom, using a variety of components for convenience and efficiency.

Adapter Connections

Various connections are available for versatility in the process.

AdvantaPure™

145 James Way · Southampton, Pennsylvania, 18966 USA
364 Valley Road · Warrington, Pennsylvania, 18976 USA
Data 7 · 7741 MG Coevorden, Netherlands
888-755-4370 · 215-526-2300

PHARMASEP
Always by your side

260, rue Georges Charpak, 01 390 Civrieux - France
Tél : +33 4 74 71 94 71
contact@pharmasep.fr
www.pharmasep.fr

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.

© Copyright 2025. All Rights Reserved