

# AdvantaSil™ APSH-DB

## APSH-DB: DOUBLE-BRAIDED REINFORCED SILICONE HOSE

Pharma & Biopharmaceutical Applications

PRODUCT DATASHEET



**AdvantaSil™ APSH-DB** is a double-braided reinforced platinum-cured silicone hose designed for high-pressure fluid transfer within the pharmaceutical and biopharmaceutical industries. Engineered for durability, flexibility, and purity, the APSH-DB hose ensures reliable performance in demanding environments, maintaining the integrity of your processes and products. Offered as an alternative to mandrel wrapped silicone hose, AdvantaSil APSH-DB is more flexible for less kinking while maintaining comparable working pressures.

## 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 double-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
- Available in various sizes and lengths, can be customized, and supplied with various fittings
- Manufactured with a focus on [sustainability](#)
- Comprehensive [validation package](#) to expedite qualification and validation

## TYPICAL APPLICATIONS



High-pressure fluid transfer



Critical downstream applications such as vessel or tank transfer



Large volume filling  
200+ liter bioreactors



Filtration

## 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

## 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

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

\*NOTE: Testing based on liner only.

## 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

## 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](#)

## PRODUCT SPECIFICATIONS

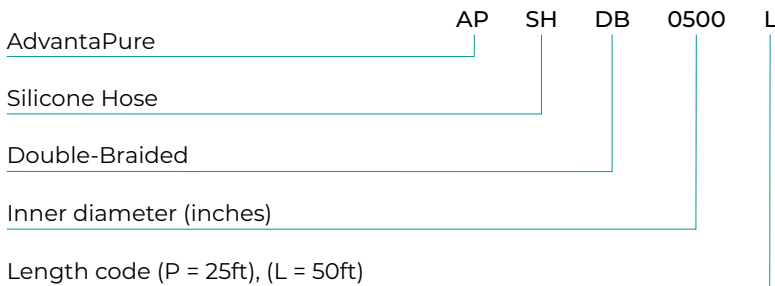
Part Number	Catalog Number	I.D.		Wall		O.D.		Working Pressure at 70°F (21.1°C)		Bend Radius		Standard Available Lengths	
		in	mm	in	mm	in	mm	PSI	Bar	in	mm	ft	m
A7140068	APSH-DB-0500	0.500	12.70	0.195	4.95	0.890	22.60	600	41.36	2.5	63.50	50	15.24
A7140094	APSH-DB-0750	0.750	19.05	0.215	5.46	1.180	29.97	750	51.72	3.0	76.20	50	15.24
A7140120	APSH-DB-1000	1.000	25.40	0.215	5.46	1.430	36.32	500	34.48	3.5	88.90	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 only. Add length suffix to part number if this is being used to order.

Example: 50 ft. of .500 in. I.D. hose is product number APSH-DB-0500L.



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 representative 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.



### AdvantaLabel™

Our labeling system securely encases a label and color stripes of your choice on the outside of tubing, providing quick and easy identification. AdvantaLabel is custom-configured to meet your specific requirements.



### 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.



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364 Valley Road · Warrington, Pennsylvania 18976 USA  
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To learn more about AdvantaPure and what solutions we offer visit:

[AdvantaPure.com](https://www.AdvantaPure.com)

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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