

PTFE LINED SILICONE HOSE

Ultra-Flon Smooth Bore PTFE Lined Silicone Rubber Covered High Purity Process Hose

Puresil-Techniflex Ultra-Flon hoses have been specially designed for the transfer of Pharmaceuticals, food, cosmetics, clean-chemicals and Biotechnological products. The combination of Silicone and PFA gives this hose excellent thermal properties even for the most aggressive products, avoiding any risk of degradation and product contamination. Ultra-Flon hose is highly resistant to repetitive dynamic cycling typically found in dosing or filling machine applications. Puresil-Techniflex Ultra-Flon hoses are produced from USP Class VI Platinum Cured Silicone and have a Ultra Smooth bore PFA hose liner, a stainless steel wire helix and textile reinforcement to make this hose the most flexible smooth bore PTFE lined hose available, and also offers both increased pressure and temperature ratings.

Puresil-Techniflex Ultra-Flon - Is the most Flexible Smooth Bore PTFE Lined Hose Available:



AMAZING FLEXIBILITY

Smooth Tube PTFE:

- Chemically inert.
- Non-contaminating/Assured clean-ability.
- High/Low Temperature ratings.
- Non-aging, non-stick surface.
- No-extractables.
- Non-absorbent, will not impart taste or odour.

Approvals

- USP Class VI.
- FDA 21CFR177.1550.
- 3A Sanitary Standards.
- USDA.

Silicone Outer Cover:

- Smooth non-contaminating "Wipe Clean" cover.
- High temperature ratings.
- Chemically Compatible.
- Insulates hot / cold media's from workers & equipment.

Benefits of Puresil-Techniflex Ultra-Flon hose:

- 1/2" - 2" N/B sizes available.
- -100°F (-73°C) to 500°F (260°C).
- Highly Flexible.
- Light weight.
- 4-6 µin Ra surface finish.
- Can be autoclaved and sterilised.
- 316L stainless steel fittings.
- Full vacuum rated.
- Insulating design.

End Connections:

- Wide Range of Stainless Steel end connections available.
- Internally chamfered to provide a smooth transition between hose and fitting.
- Sanitary styles:
 - 316L Stainless Steel.
 - 'Heat' Lot Number Stamped.
 - Part Number Stamped.
 - 'Reducing Ends' .
 - Surface finished to 0.25 Ra.
 - Electro-polishing "On Request"

Applications:

- Load cell.
- CIP/SIP systems.
- Feed lines.
- Sampling systems.
- Filling equipment.
- Bioreactor process lines.
- Fermentation lines.
- Bulk transfer.
- Weigh scales.

- Identical dimensions to match connecting fittings and pipe work.



Part Number	Hose I.D.		Hose O.D.		Working Pressure		Burst Pressure		Bend Radius		Weight (lbs) per foot
	Inch	mm	Inch	mm	psi	bar	psi	bar	Inch	mm	
U-Flon-19	0.75	19.0	1.24	31.5	200	13.9	800	55	3.50	90	0.43
U-Flon-25	1.0	25.4	1.52	38.6	150	10.0	580	40	5.10	130	0.57
U-Flon-38	1.5	38.1	1.93	49.0	150	10.0	580	40	9.40	240	0.98
U-Flon-51	2.0	50.8	2.57	65.3	150	10.0	580	40	11.4	290	1.30

Application Consideration: PFA is a permeable material. The rate of permeation is affected by many application-specific variables. The hose is primarily intended for liquid service. In gas and vapour service applications the impact of permeation of the system fluid through the PFA needs to be considered by the system designer.
Vacuum Rating: Is given at 70° F (21° C); these factors may change if the minimum bend radius and maximum temperatures are reached.

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Puresil-Techniflex "Safe-Lok" Sanitary and Hygienic Swaged Hose Fittings and End Connections:

Puresil-Techniflex "Safe-Lok" end connections have been specifically designed to eliminate crevices and bacteria traps where the end connections are crimped into the ends of the hose, this ensures that the products transferred do not become entrapped between the hose insert and the hose liner - offering a smooth transitional flow of all medias.

The "Safe-Lok" hose ends have been specially produced for use with pharmaceutical, biotechnological, cosmetic and food applications. The 90° and 45° elbow fittings and special assemblies are hygienically welded and polished. All straight fittings are one-piece machined from 316 Stainless Steel without welds.

This concept is compatible with most standard CIP and SIP in line cleaning systems.

No strip down of the hose is necessary for cleaning.

The standard machined internal surface finish of Puresil-Techniflex end fittings is 0.6Ra or better, improved surface finishes can be achieved by electro-polishing.

Each Puresil-Techniflex assembly is marked with a unique reference code to ensure maximum traceability of all components.

A wide range of end connections are available and these include: Tri-Clover (Sanitary Clamp), SMS, DIN, IDF, ILC, RJT Female, DIN Male & Female ends in sizes rang 1/4" (6.4mm) to 4" (101.6mm) N/B.



Unique Hose Labelling and Identification System:

Created by the increasing demands for a Sanitary Tagging System on High Purity and Bioprocess transfer hoses.

This tagging system allows users to customise their hose requirements prior to installation with the options to include both a colour-coded tagging device and up to five (5) lines of personalised text.

Hose Identification Tags make it easy for users to identify their products during the equipment replacement process, eliminating the possibility of any installation errors!

Puresil-Techniflex hose Identification tags are fully encapsulated under a sealed translucent silicone protective cover which makes them durable and permanent. This also means the tags are resistant to autoclaving and sterilisation. Each hose can be individually colour coded in a range of colours to enable easy-identification needs and are sealed to the outer surface of the hose meaning the labels do not come into contact with any media being transported through the hose.



Identification Tag Features:

- Easy to read.
- Eliminates entrapment issues.
- Customer specifies text.
- Unaffected by sterilisation.
- CIP & SIP Clean-ability.
- Auto-clavable.
- Outer Silicone rubber.
- Encapsulation protects tags from wear & tear.
- Multiple colours available.
- Ideal for Specific Applications.

Hose Identification Tags can be applied to all Puresil-Techniflex Ultra-Flon and Silicone rubber covered hoses up to 104mm I/D.