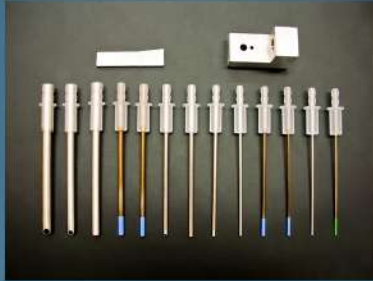




Solutions for your Solution

OneShot™ Single-Use Filler Needles

Overlook Industries, Inc. believes that the future of liquid packaging lies in the flexibility and efficiency of single-use technology. Our line of innovative single-use products is anchored by our patent pending OneShot™ single-use filler needles. The combination of plastic hub and 316L stainless steel tubing allows our customers to experience the freedom of disposability without changing fluid contact materials, while still retaining the utmost level of filling speed, accuracy and precision that our custom reusable stainless steel needles provide.



Benefits Associated with Single-Use Needles:

- Single-use filler needles avoid the costs associated with cleaning, sterilization and validation.
- Risks associated with cross-contamination are eliminated and production turnaround time is accelerated when brand new components are utilized for every run.
- All needles are manufactured from 316L stainless steel and FDA, USDA, and Class VI approved plastics.
- Customization of plastic components based on customers' current use of plastics in the fluid path (quick disconnects, disposable filter housings, etc.) eliminates the need for validation of new materials.



Overlook can design and manufacture OneShot™ single-use filler needles that utilize any custom coating or tip geometry that is available on our reusable stainless steel needles, including more complex designs that are normally inappropriate due to cleaning requirements, such as screens and check valves.



Custom Coatings and Tip Geometries

Overlook Industries, Inc. utilizes a wide variety of design strategies to develop needles that dispense liquid as accurately and precisely as possible. We are always on the lookout for innovative new designs to help solve our customers' issues, but rely on the following tried and true methods.

Style: Basket, Basket-Tip

Problems Addressed: Foaming / dripping / splashing, issues holding a fluid column

Contraindications: Non diving-head fillers

Description: Basket needles split flow into two streams. When compared to standard needles, output holes have a larger combined surface area, resulting in a reduction in flow rate. Liquid is directed towards the sides of the container, cascading down gently, reducing the chance of splashing or foaming.



Style: Showerhead

Problems Addressed: Foaming / dripping/ splashing, issues holding a fluid column (high volume)

Contraindications: Non diving-head fillers

Description: Showerheads split flow into multiple streams, aimed towards the sides of the container. In high volume fills they can greatly reduce dispense times for foamy or soapy products.

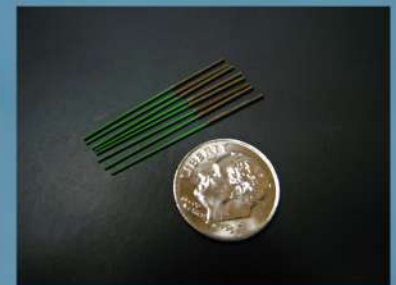


Style: Teflon-coated, FEP-Coated

Problems Addressed: Wicking (adhesion of liquid to OD of dispensing tip), drops hanging on tip

Contraindications: N/A, aside from lack of necessity

Description: Teflon coating solves issues with liquids that adhere to the OD or end of the dispensing tip. After multiple dispenses, the accumulated globule of liquid breaks off and can throw off volumes or land on machinery or containers. By ensuring that no product remains at the tip after each dispense, this issue is avoided.



Style: AMCX2286, "Rainbow"

Problems Addressed: Metal-sensitive products, wicking, dripping

Contraindications: N/A, aside from lack of necessity

Description: The "rainbow" coating is a halogen-resistant surface treatment that acts not only like Teflon to add hydrophobic properties to the needle, but also to protect the stainless steel from metal-sensitive liquids that fall at extreme ends of the pH range. It coats both the ID and OD of the needle.



Freedom Filler™ Kits

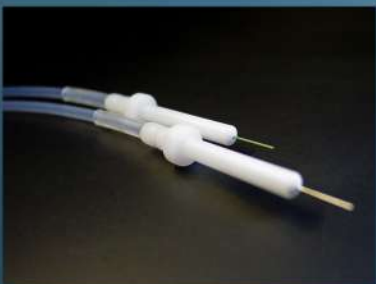
Overlook Freedom Filler™ Kits embody our eighteen year heritage of maximizing productivity, while providing the ultimate in customization and flexibility of your filling machine's liquid dispensing characteristics with our OneShot™ single-use filler needles. Freedom Filler™ Kits are designed to include all necessary components of your filling machine's fluid path. We work closely with our customers to ease the transition by providing our kits with only the specific materials that are pre-existent in your fluid path.



Overlook maintains working relationships with several of the most popular manufacturers of fittings, bags, sensors and all other necessary fluid path components, allowing us to configure your kits with the same vendors that have already been approved.



Kits can be provided ready for your in-house cleaning procedures, or packaged in our Class 10,000 clean room to meet USP <788> standards for particulate cleanliness. For the utmost convenience, kits can be gamma sterilized and multi-bagged, ready for immediate transfer to the filling suite.




Validation and Third-Party Testing

Overlook Industries, Inc. understands that trust comes first and foremost in a successful business relationship. Our product guarantees are based on extensive third party testing in an FDA and EMA certified laboratory. Our goal is to provide peace of mind that when you receive an Overlook product, there is no doubt that our SOPs will meet or exceed your facility's requirements.

Overlook can provide certifications for all of our single-use products:

- Material certifications; all plastics meet FDA, USDA and USP Class VI requirements.
- Particulate cleanliness certification, as stated in USP <788>; based on light obscuration particle count testing and solid sample extraction for particle testing.
- USP purified water test (TOC and conductivity); based on solid sample extraction for TOC testing.
- Bag seal integrity certification; based on methylene blue dye integrity testing.
- Shelf-life certification; based on accelerated aging and stability testing.
- Transportation certification; on a need-be basis.



Overlook Industries, Inc.
PO Box 869
193 Northampton St. Ste 2
Easthampton, MA 01027
888.4NEEDLE
www.overlookindustries.com
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