

## GENERAL DESCRIPTION

Powder transfer sleeves from STERIS reduce the risk of cross contamination, keep production suites clean, and help protect operators from exposure to drug product. STERIS powder transfer sleeves are designed to help move product among vessels, containers, and many types of mills, granulators, blenders, tablet presses, and other processing equipment.

## FEATURES

Low particulate generation  
Superior microbial barrier properties  
Tear and puncture-resistant  
Variety of designs  
STERIS Quality Systems and Manufacturing Controls

## BENEFITS

Ideally suited for use in a cleanroom environment  
Provides containment of powders during transfer process  
Robust material, even when in contact with materials with sharp points, corners, or edges  
Numerous designs, sizes, and shapes, customizable to meet specific needs and ensure proper fit  
Products manufactured under Quality Systems designed to support the needs of pharmaceutical and biotechnology companies governed by 21 CFR § 210, 211, 820

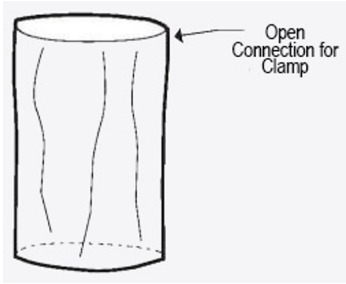
## DESIGN AND CONSTRUCTION

Powder transfer sleeves are constructed from DuPont™ Tyvek®<sup>1</sup> non-woven spunbonded olefin material. Tyvek® material is a low linting, breathable material that performs as a highly efficient particulate barrier. As a result of this unique combination of properties, STERIS powder transfer sleeves prevent powdered materials from being dispersed into the production environment. Tyvek® material is also tear and puncture resistant, allowing sleeves made from Tyvek® to be used multiple times before being discarded.

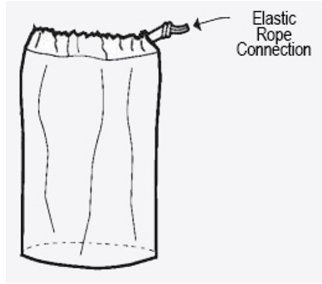
Inner skirts can be added to ensure a precise, clean transfer of product. Depending on the volume and speed of product being transferred, polypropylene panels can be added to increase breathability and venting. To facilitate quick, tool-free installation, STERIS transfer sleeves can be designed with elastic, shock cords, cord locks, drawstrings, and other closure options.

<sup>1</sup> DuPont™ and Tyvek® are trademarks or registered trademarks of affiliates of DuPont de Nemours, Inc.

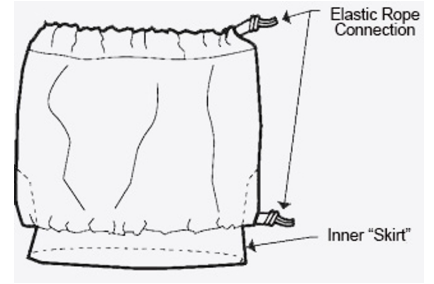
Examples of powder transfer sleeve designs are shown below:



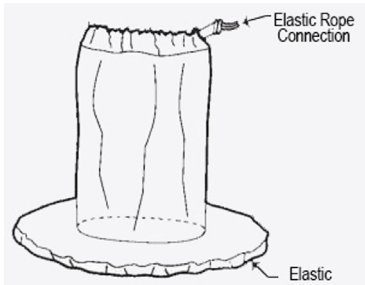
Standard drop sleeve



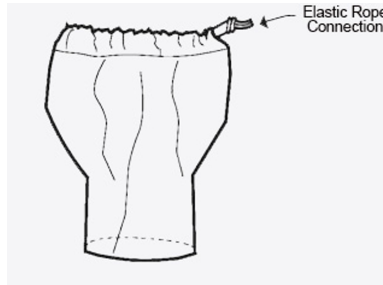
Standard drop sleeve with elastic rope



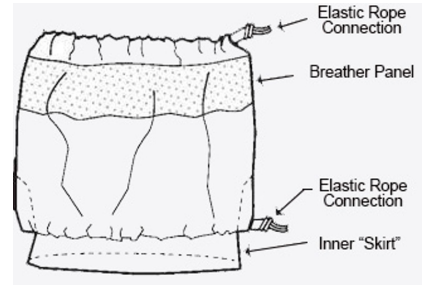
Fitzmill™ sleeve



Bin-to-glen bowl sleeve



Bin-to-filler sleeve



Milling sleeve with breather panel

## OPTIONS

### Closure Options

Elastic
Shock cord
Barrel locks
Drawstrings

### Material Options

Tyvek® non-woven spunbonded olefin
Polypropylene breather panels

## STORAGE AND SHELF LIFE

Powder transfer sleeves are designed for stability over a long period, provided proper storage and handling practices are followed. Aging studies have been conducted on the materials of construction, demonstrating stability to three years if properly stored and handled.

Recommended storage conditions:

- Temperature: 45-85°F (7-29°C)
  - Wider extremes can be tolerated.
  - Temperatures below 45°F (7°C) do not harm the product; however, condensation may form if the material is taken from a cold area into a warm area and used immediately.
- Humidity: 30-60% relative humidity
  - Wider extremes can be tolerated; however, storage within this range before use in an autoclave is recommended to minimize condensation formation.
- Do not store near sources of heat or in direct sunlight.
- Protect outer packaging from damage (tears, punctures, etc.).

Expiration date for all products: The expiration date is printed on the label and is 36 months from the date of manufacture.

## SERVICE

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### Sales

Service is one of the most important ways to verify consistent quality of the facility's performance and operation. A tailored service program by STERIS provides effective, trouble-free operations.

### Technical

STERIS is pleased to provide a completely staffed and equipped technical service laboratory capable of performing needed tests and providing both telephone and on-site assistance when needed. More details on how this service can benefit a facility's particular situation can be provided upon request.

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### For further information, please contact:



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