

# CLEANROOM BAGS



Specialty sizes and shapes manufactured in a certified cleanroom.



Cost effective clean room bags and pouches can be specified from a wide range of materials, styles, features and processes. SFi makes bags from a minimum size of 1.5" to 96" or larger. Standard cleanroom bags are Level 100, Cleanliness Specification IEST-STD-CC1246. Optional certification to level 50 for lower particulate requirements is available with existing in-house equipment and processes. Items are packed double-bag and a Certificate of Conformance is included as required including part and lot number for traceability.

| Technology Sectors                     |                                   |
|--|-----------------------------------|
| Liquid / Gas Containment               | Electrostatic Dissipative Control |
| Contamination Control                  | Medical Components / Products     |
| Semiconductor / Electronics Protection | Aerospace Subcontracting          |
| Product Packaging                      |                                   |

| TEST                            | STANDARD  |
|---------------------------------|---|
| Liquid Particle Testing LP-0002 | Ref: IEST STD-CC 1246   |
| Seal Strength                   | #/Inch ASTM F88   |
| Seal Strength                   | Air Burst TP-0001<br>Ref: ASTM F1140  |
| Seal Appearance                 | Visual ASTM F1886   |
| Vacuum Test – TP-005            | Ref: ASTM 515-05  |
| Visually Clean                  | White and UV light inspection to IEST STD-CC 1246 & NASA JPG 5322.1 Contamination Control Requirements Manual |
| Out-gas testing                 | NVR Test  |

## MATERIALS

- Aclar®
- Anti-Static Polyethylene
- Bubble Pack
- Co-Extrusions
- Conductive
- Composites
- Custom Laminates
- ESD Films
- Flexible Foam
- High Strength/High Barrier Films and Laminates
- MIL-SPEC
- MIL-PRF
- Linear Low Density Polyethylene (LLDPE)
- Low Density Polyethylene (LDPE)
- Mono-films
- Nylon 6
- Photo Black
- Polypropylene
- Polyethylene
- Static Shielding
- VCI & VPI for Corrosion Control

## STYLES

- Flat
- 3-D (square or rectangular bottom)
- Flapped or fold over
- Gusset
- Tubing
- Installed Ports
- Flaps with PSA closure
- Custom design based on specifications

## TYPES

- MIL-PRF-131
- MIL-B-131
- MIL-PRF-121
- MIL-PRF-22191
- MIL-PRF-81705
- MIL-DTL-117
- MIL-B-117

## PROCESSES to achieve particulate requirements

- Liquid surface cleaning
- Cleanroom air / static guns
- Cleanroom static neutralizing particulate removing rollers



# Select Fabricator's Cleanroom Capabilities



SFi's in-house ISO 14644.1 Class 7 (class 10,000 cleanroom) and isolated area which is Class 5 (class 100 cleanroom) is available for the cleaning of fabricated prototype units, pre-assembly, covers, tarps and bags.

Our clean room is certified semi-annually by a third party ISO accredited (ISO 17025: 2005) certification agency. The cleanroom is equipped with an ultraviolet light for testing to NASA JPG 5322.1. Certificates of Conformance are issued as required. Cleanliness, accurate record keeping, effective quality systems, on time performance and outstanding workmanship are of the utmost importance to us.



## COMPLY. SELECT.

Our expertise extends to prototype work, custom projects or volume production to comply with exacting customer specifications in aerospace, automotive, military, electronics, wireless and other industries.

Our facility is ideal for flat, gusseted, and/or 3-D style bags with installed ports and/or lips with PSA closures.

| CRITERIA               | ISO 5               | ISO 7               |
|------------------------|---------------------|---------------------|
| Air Changes per Hr/Min | 300 to 480/ 5 to 8  | 60/1                |
| Filter Coverage %      | 50 to 70            | 7 to 15             |
| CFM per Sq Ft          | 36 to 65            | 9 to 16             |
| Filter Efficiency      | 99.997 (4-9s HEPAs) | 99.997 (4-9s HEPAs) |



## Applications

- Parts bags
- Storage covers
- Contamination control
- Military specification packaging
- Critical component protection
- Instrument, array and machine covers

## Cleanroom Products and Services

- Cleaning
- Assembly
- Sealing of flexible materials
- Kitting
- Finish Packaging
- Clean room Bags

|                  |   |
|------------------|---|
| Cage Code:       | 1VB13   |
| Duns #:          | 003053357   |
| NAICS:           | 326111, 314910 & 322223                                 |
| ITAR registered: | US Dept. of State—Directorate of Defense Trade Controls |

SFi can provide optional certification to level 50 using a liquid particle tester.

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