Cleanroom Safety Infographic



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CLEANROOM SUIT

Hood

- Hoods are required for cleanrooms where full-body apparel is needed.
 A well-designed and properly secured hood prevents particles generated by bodily movement from entering the cleanroom.
- ▶ Hoods are often mandated in ISO Class 3, 4, 5, 6 and 7 cleanrooms.

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Face Mask

- Masks minimize the concentration of respiratory particles that the wearer expels into the immediate environment.
- This is especially important in cleanrooms specializing in extremely sensitive products, such as:
- Pharmaceutical drugs (including vaccines)
- (including vaccines)

 ► Microprocessors and other
 tiny electronic devices

Gloves

- Cleanroom gloves must protect against a number of threats:
 - Contamination caused by the use of bare hands
- Contamination caused by particles generated by the glove itself
- Injury to the user's hands caused by corrosive chemicals
- ► Many cleanrooms mandate the use of latex gloves.

 ► Nitrile gloves offer a viable
 - Nitrile gloves offer a viable alternative for workers with latex allergies.

Goggles

- They primarily serve to prevent eyebrow hairs, skin cells and other contaminants from falling into product or onto sensitive surfaces.
- These are also intended to protect the wearer's eyes from chemicals and other hazards
- Goggles specially made for cleanroom use typically come with a number of features to accommodate these environments:
 Anti-for lenses
- > Anti-linting straps
- Reusable goggles are designed to withstand repeated sterilization cycles without degradation of functionality.
- ► Goggles are often required in ISO Class 3, 4, 5

Frock or Coverall

- Forming the largest component of the standard cleanroom uniform, frocks and coveralls cover the torso and lower body.
 Frocks are generally used in less restrictive cleanrooms.
 - Coveralls, which have less air permeability, are generally for more restrictive cleanrooms.
- These are also intended to protect the wearer's eyes from chemicals and other hazards.
- ➤ This apparel should include cleanroom-friendly features such as:
- ▶ Electrostatic discharge (ESD) protection
- ▶ Anti-linting fabric
- > Flame and arc flash resistance
- Comfort—to reduce perspiration that can enter the atmosphere

Boots

- In addition to providing comfort, cleanroom boots provide several important benefits.
 Properly fitted boots prevent particulate matter from
- Properly fitted boots prevent particulate matter from escaping into the immediate environment.
 Ankle straps ensure a tight fit.
- ► Several sole options are available, including:
- Molded soles These are flat and comfortable to wear.
- Hypaion soles These are made from chemical-resistant non-skid material with a polyester substrate and anti-static coating.
- Alternatively, some cleanrooms use shoe covers that can be worn over normal footwear.
- Shoe covers can sharply reduce the risk of cross-contamination.

Source: https://www.prudentialuniforms.com