Common Footwear Hygiene Methods Compared

Footwear hygiene is truly the first step in hygiene and a cornerstone of Sanitation Standard Operating Procedures (SSOPs). There are a few common methods used to remove debris and pathogens from footwear. Each method has its benefits, but some have crucial drawbacks that can result in pathogen spread. Here are some of the most common footwear hygiene methods used today and the pros and cons of each:

	Meets Regulatory Standards	Hygiene Event / Compliance Tracking	Consistent	Kills Pathogens	Removes Pathogens	cGMP Procedure	Throughput	Water Consumption	Solution Quantity Used	Onboarding / Training	Safety
Manual Boot Scrubbers	Ď	. Ç	Ŗ	Ď	=	=	=	=	=	=	Ŗ
Manual Boot Dips	Ď	. ,	=	Ď	=	=	=	=	=	=	=
Automated Footwear Hygiene Stations	Ľ	Ľ	Ľ	ம	ம	Ċ	Ľ	=	=	ப	=
CleanTech® Footwear Enhancements	Ľ	Ľ	Ľ	ß	ß	ß	Ľ	=	=	Ľ	=
Door Foamers	Ď	,	=	Ľ	Ľ	=	Ď	Ľ	Ľ	Ľ	Ŗ
Dry Quat Pellets	Ď	,	=	Ľ	,	=	Ď	ß	Ľ	Ľ	=
Tacky Mats	Ď	,	=	=	,	=	Ď	Ľ	Ľ	=	=
Booties / Shoe Covers	Ď	,	=	=	,	=	=	ß	N/A	=	Ŗ
UV Lights	.	Ŗ	=	=	Ŗ	=	,	Ľ	N/A	=	=

Manual Boot Scrubbers

Benefits

Low cost

Potential Concerns

- Entirely dependent on human behavior
- Training and retraining required for effective footwear hygiene
- Manual scrubbing process means a longer hygiene event per user
- Doesn't replenish

CleanTech® Footwear **Hygiene Enhancements**

Benefits

- Removes the variability of human behavior
- Simultaneous cleans employees hands and footwear in 12 seconds
- Automatic application of hygiene solution at effective PPM for pathogen removal

Familiar system to all

concentration of fluid

Requires somebody to

mix the proper chemical

• Potential safety risk of fall

automatically

concentration

for users

 Automatic replenishment of cleaning solutions

Manual Boot Dips

Benefits

Potential Concerns Entirely dependent on

- human behavior Training and retraining required for effective pathogen removal
- Manual process means employees need to ensure enough contact time to be effective at killing pathogens

Door Foamers

Benefits

 Suitable for large doorways as foamers cover a large area

Potential Concerns

- Creates a slick surface that can be a safety hazard for iuman traffic/emplovees
- Can be used both for foot traffic and equipment such as forklifts
- If not installed correctly it can spray beyond the floor or footwear and onto the

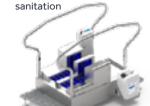
Automated Footwear Hygiene Stations

Benefits

- Removes the variability of human behavior
- Bi-directional capabilities and compact design

Potential Concerns

- Floor draining required
- Some additional onboarding is needed
- for use



Dry Quat Pellets or Powder

Benefits

Potential Concerns

- Pellets are tracked everywhere
- facilities as pellets can fall

 Automatic application of sanitizing solution at effective PPM for footwear

- Cling to the footwear

Low cost

• Familiar system to all

- Doesn't replenish concentration of fluid
 - automatically Requires somebody to mix the proper chemical
 - concentration

Potential Concerns

- Floor draining required
- Some additional onboarding is needed for use
- Requires CleanTech[®] automated handwashing station

- If not installed correctly, it can be circumvented by human traffic
- employee's ankles.
- Timing needs to be optimized to keep optimal concentration for traffic flow
- Pose significant risk to food and employee safety
- onto production lines

• Cannot be used in vertical

Can be used in both wet

and dry environments

 May need some moisture to activate

UV Lights

Benefits

- Easy to use
- No use of sanitizing chemicals
- Low maintenance cost and effort

Tacky Mats

Benefits

- Can be used with all footwear types
- Removes small particles and dust

Potential Concerns

- Only suitable for dry environments
- Perform no sanitation of footwear / kill no pathogens
- High maintenance -Need to be changed out
- Easy to install Can be used for

multiple entrances

- frequently depending on volume of personnel and soil levels
- Can be costly to replace often
- Not effective on pathogens

Booties / Shoe Covers

Benefits

- Easy to use
- No use of sanitizing chemicals

Potential Concerns

- Don't protect from pathogens, just particulates
- Can be costly to replace often
- Can cause significant waste if replaced often
- Low maintenance cost and effort
- environments with any moisture
- causing a safety hazard to wear and put on
- **Potential Concerns** Unproven technology not currently used in many applications
- Needing regulatory buy in prior to use
- Not effective against pathogens when any debris / soils exist
- May not be effective against a broad spectrum of pathogens for shorter time periods
- Not ideal for large shifts as it takes a long exposure time to properly sanitize footwea
- Lacking peer reviewed efficacy data

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- Not suitable for

- Makes shoes slippery,