



DineSafe

*Advanced Cleaning + Infection Control to
Secure Food Preparation & Dining
Environments*



WCP Facility Solutions



Mission

Utilize physics and chemistry to improve indoor air quality and surface hygiene in the places we work, eat, learn, and play.

About WCP Facility Solutions:

Business centered around Facility Health and Wellness

- Healthcare (HAI / CAI Eradication)
- Education (Student + Staff Safety / Savings + Benefits per Facility)
- Industrial (Employee Absenteeism / Environmental Safety)
- Agriculture (EPA Restrictions / Eliminate Mold / Fine Reduction)
- Entertainment (Music Venues / Stadiums, Arenas, Theaters, Clubs)
- Recreation (Cruise line Safety / Hospitality Industry, Gyms)
- Retail (Odor Reduction / Antimicrobial Laundry Additive)
- Liability Risk Mitigation / Lawsuit Avoidance

Product Agnostic

- Find best in class products, design and implement a coordinated symbiotic suite of healthy building technologies and integrate them into profit solutions



DineSafe Agenda

PHASE 1

Identify the Problems

PHASE 2

Increase Indoor Air Quality (IAQ) and implement cleaning and infection control solutions

PHASE 3

Develop monitoring tools for the staff to ensure system compliance

PHASE 4

Construct Cost/Benefit Analysis

Immediately: “*Upgrade current public health practices.*”

WCP Facility Solutions recognizes there are no “*silver bullets*” in the world of infection control. We know the problem is complicated and requires multiple solutions. WCPFS specializes in implementing safer cleaning and infection control strategies to “*control*” the spread of bacteria.

Let us attack this problem for you by

- Using a systematic layered approach focused on proven methods of transmission and transference
- Instituting state of the art technologies to alleviate costs
- Implementing disruptive products to provide superior outcomes
- Improving your outcomes by monitoring your risks

Methods of Transmission



Surfaces

Touch Contamination



Textiles

Spore Capture / Bacteria



Hygiene

Hand Washing



Exposure

Outside Sources



Air

Vectors / Air System Handling

BIOPROTECT™

6 Hour Hand Sanitizer

- Regular hand sanitizers work only when the product is wet
- BIOPROTECT™ unique alcohol-free foaming hand sanitizer delivers 6-hour residual protection on skin surfaces
- Benzalkonium Chloride/Aloe formulation, non-sticky, non-greasy, no odor
- Once applied the material bonds to the skin surface and provides continual protection even after hand washing/hygiene procedures
- Application on hands reduces inoculation of touch points throughout the environment, reduces cross contamination
- Alcohol-free, no fire hazard for storage, or false positive drug testing results for personnel
- Reduces likelihood of viral exposure, aids in keeping family, friends, and guests well



Surface Antimicrobials

Chlorine Dioxide (ClO₂) Solution Surface Deodorizer

Chlorine Dioxide (ClO₂) - Off Gassing Deodorizing Tablets

Hypochlorous Acid (HOCL) - Disinfectant

- **Chlorine Dioxide (ClO₂)** is an all-purpose, surface cleaner which is an excellent solution to eliminate smoke and odors
- **Off Gassing Tablets** require no labor – simply place the tablet in the appropriate container of water
- **Chlorine Dioxide (ClO₂)** is the CDC's recommended product for disinfection of PPE vs Ebola.
- **Hypochlorous Acid (HOCL)** is made naturally by white blood cells in all mammals for healing and protection
- **Hypochlorous Acid (HOCL)** is a powerful oxidant that is effective against bacteria, fungi, and viruses

Label Claims Bacteria and Fungi

- Salmonella enterica
- Escherichia coli
- MRSA
- Salmonella enterica
- Acinetobacter baumannii
- Staphylococcus aureus
- Legionella pneumophila
- Aspergillus niger
- Enterobacter aerogenes
- Listeria monocytogenes

Label Claims Viruses

- HIV-1
- Norovirus (feline calicivirus surrogate)
- Respiratory syncytial virus
- Rotavirus
- H1N1 flu virus
- H5N1 flu virus
- Hepatitis B
- Hepatitis C

SHIELD™ Disruptive Biostatic Agent **90 Day Surface Protectant**

- **Effective on surfaces for up to 3 months**
- **Eliminates bacteria, mold, fungus, algae, and other odor causing microbes**
- **Organic, non-toxic, non-leaching, water-based molecule**
- **Persistently kills organisms mechanically instead of chemically**
- **EPA approved for porous and non-porous surfaces**
- **Works on textiles in laundry solutions, provides odor control**
- **Provides an anti-static component to laundered materials**
- **A Silicone Quaternary Ammonium Salt (Organo-Silane Molecule)**
- **Approved for direct surface food and pet contact**
- **Edison Award Winning product**





SHIELD™

Laundry Treatment

- Organic product non-toxic, water-based molecule laundry softener for clothing, uniforms, textiles, and tablecloths
- Add 2-4 ounces to laundry (depending on load size)during rinse cycle to turn garments antimicrobial and hydrophobic
- Extends garment/uniform life as bacteria feed off dead skin cells embedded within the clothing fibers
- When the SHIELD™ treatment has dried and establishes its mechanism of defense the matrix inherently adds beneficial hydrophobic qualities to textiles with which it has been applied
- This process enhances the material's ability to resist spills, soiling, liquids and absorption of sweat and body odors while still allowing the garment to significantly breathe and provide evaporative cooling
- Provides anti-static component
- Exceptional odor control

Perfect Clean™ Microfiber

- **Physically removes 85% of grime, dust and Micro-organisms**
- **Durable and Chlorine Stable designed to meet CDC guidelines for Blood-Borne Pathogens**
- **Lint-free therefore lessens particulates produced from paper towels**
- **Multicolor to identify use area (Bathroom vs Kitchen Applications) helps limit cross contamination**
- **Provides an electrostatic charge to *attract* debris**
- **Aides in achieving Dwell Time**
- **Reduces waste**
- **Highest Absorption Capacity of any Product Tested**
- **Multiple patents including internationally patented "Built-in Antimicrobial Product Protection"**



Scrub & Clean Sponge

Proprietary Antimicrobial coated.
One side is a dense terry-type material ideal for cleaning and the back side has “thin film” knitted into the surface to provide for a less aggressive scrubbing action. The terry side is made from TW420AM, a proprietary double sided terry material developed to meet the rigorous quality, durability and performance of the commercial laundry. Adhering to strictest Quality Control Standards this material offers the highest concentration of micro-denier fiber resulting in unrivaled performance – it takes the effort out of cleaning.



The Problem: Odor & F.O.G.

- Virtually all food service environments suffer from Odor, Fats, Oils and Grease (F.O.G.)
- Ineffective cleaning protocols often lead to problematic odor sources as fats and organic matter putrefy. Residual Grease and Oils on surfaces create risk for patrons, staff and generate additional expenses.
- **Costs:** According to the [Centers for Disease Control and Prevention](#), the average hospital cost of a slip and fall is more than \$30,000. The [most common](#) way to suffer a brain injury is falling. The average cost of restaurant cleaning is \$85 per hour with average restaurant cleaning services rates and prices ranging from \$20 to \$150 per hour for the US in 2020. Grease Trap Cleaning, Fan Hoods and Food Preparation areas provide for the majority of expenditures in both material costs and labor.
- **Litigation:** The average [slip-and-fall](#) settlement is between \$10,000 and \$50,000, the number of awards is expected to rise. Compliance fines for State and Local Health Code Violations regarding F.O.G. can range from a few Hundred Dollars to over \$10,000 per incident and rise to a level of requiring operation shutdown.

Slip and falls are a leading cause of injury for all age groups

Creating “Clean” Surfaces

PHASE 1

Clean & Degrease- Down to the surface level, removing skin oils, dead cells, biofilms, organisms and grime

PHASE 2

Disinfect- Using non-toxic , direct “food contact” approved, safer products

PHASE 3

Protect- Apply persistent cleaning anti-microbials to provide continuous activity

PHASE 4

Monitor the Results- Collect sample data for surfaces via aerobic swabs, air impaction devices and forward for laboratory analysis to assess risk and determine potential problem areas



F.O.G. Eradication



- Mop Floors
- Sanitize Tables
- Clean Bathrooms
- Clean Grease Traps
- Clean Cooking Equipment
- Clean Windows
- Cost Effective Formulation

SIMIX™ Floor Coating

- Provides a Nano-Technology Surface Treatment rendering flooring surfaces antimicrobial, through high pH (12) and inclusion of Spot-On technology
- Nano-Technology forms a glass-like composite, and is not a wax, therefore much less slippery
- Easy-to-use (two people can apply 10,000 square feet in approximately 2-hours)
- Maintenance is as easy as periodic swabbing with Simix™ multi-surface cleaner
- Significant labor cost savings over conventional floor treatments
- Adjunctive to increased air quality: Eliminating bio burdens



SIMIX™ Floor Coating Reducing “Slip and Fall” Incidents

SIMIX Multi-Surface Ceramic Clearcoat creates less slippery floors and is rated as high traction by ANSI standard “Dynamic Coefficient of Friction” (DCOF) testing. Using a tribometer on a wet surface, floors treated with Simix™ maintain high DCOF ratings (above .42) and are safer for students, customers, faculty and staff. This results in a reduction of “slip and fall” incidents, relating filing of potential lawsuits, insurance claims and processing of requisite paperwork.



Coating DCOF result ANSI Standard Range SIMIX
Ceramic Clearcoat = .436 High traction

WoolGuard: Kitchen Hood Filtration

- NFPA 96 compliant *“Standard for Ventilation Control and Fire Protection for Commercial Cooking*
- Including Compliance with Standards -3.3.24.1, 6.1.1, 6.1.2
- NSF2 Compliant denoting successful evaluation for corrosion resistance, cleanability, the ability of exposed material to withstand normal wear
- Surpasses infection control standards for healthcare facilities based on ease of sanitation
- UL 710 and ETL Compliant for use with Type 1 (smoke and grease) hoods including “burn out” tests and fire containment
- Complies with UL 1046 use in accordance with the Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations, NFPA No. 96 and the International Mechanical Code (IMC).



Lifecycle Stages of a WoolGuard Hood Filter



WoolGuard: Hood Filters

Airflow

- Tested to Ensure Nominal Change In Airflow
- Natural wool has a crimp in the fiber that traps large volume of air between the fibers and allows air to move freely.
- Wool provides natural wicking to capture and contain the grease while ensuring air moves freely between the fibers, and the grease is wicked into the fibers, thus preventing premature "blinding over".



MINIMAL STATIC AIR PRESSURE CHANGE WITH SUPERIOR GREASE CAPTURE

Filter Type	ASTM Certified Efficiency	Static Pressure †	Hood Changes required
Standard Baffle	30%	.21" @ 250 CFM	None
WoolGuard HOOD FILTER	96%	.10" @ 250 CFM	Balancing may be recommended
Other High Performance	96%	2.0" @ 250 CFM	Replace fan pulleys, belts and motor or wire fan

† The WoolGuard Filter has 1/3 the static pressure of competitive high performance filters. Other filters having higher static may require costly fan changes.

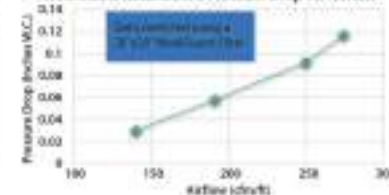
Airflow

MINIMAL PRESSURE LOSS
0.1"
@250 CFM

Initial Pressure Drop

Airflow (cfm)	Pressure Drop (Inches W.C.)
180	0.01
191	0.008
200.5	0.002
276	0.117

WoolGuard NaturalSorb Pressure Drop vs. Airflow



WoolGuard NaturalSorb Panel Filter pressure drop through wool filter only as a function of exhaust. The pressure drop across the WoolGuard shall be 0.1" or less @250 with face velocity of 250 feet per minute.

Grease Capture

GREASE CAPTURE UP TO
98%

WoolGuard Filters Particulate Efficiency



The All-in-One unit shall capture 98% of the mass emitted grease particles 8 microns and larger. All testing has been performed in accordance with the ASTM F2515 Method of testing.

Competitors = 96% Efficiency

Indoor Air Quality Approach

We understand that decreasing overall particulates and bio-burdens found in the environment of confined spaces, leads to requisite decreases in associated cleaning costs, along with decreased risk of microbial touch contamination, airborne related illness and exposure to nosocomial organisms.



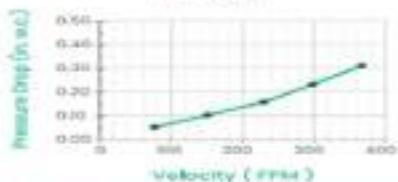
Air – Greentech™ Containment Filter with ODOgard™

- The most cost effective solution for improving indoor air quality, eliminating odors, and saving energy in commercial buildings.
- Great for older equipment, areas that require better filtration, construction material off-gassing, high traffic areas, LEED buildings, and any odors or volatile organic compounds, everywhere you have a pleated
- True mechanical MERV 13A with low pressure drop equal to a true mechanical 8A airflow, for better energy efficiency and provides less stress on existing HVAC systems.
- 2 in 1 filter- High MERV rated filter plus the advantages of gas phase reductions for odors and VOC's.
- ODOgard™ creates a molecular bond with odors and renders the odor inert, eliminating them.



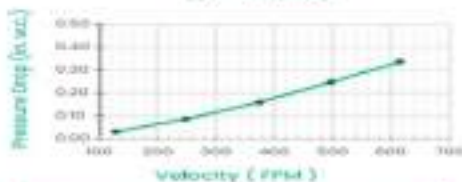
Greentech Filters+ Pressure Drop vs. Flow Rate

1" Filter



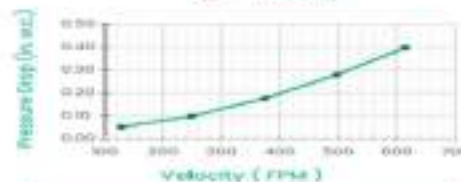
Velocity (fpm)	Press Drop (in. w.c.)
73.75	0.05
147.50	0.10
221.25	0.16
295	0.23
368.75	0.31

2" Filter



Velocity (fpm)	Press Drop (in. w.c.)
123.00	0.03
246.00	0.09
369.00	0.16
492.00	0.25
615.00	0.34

4" Filter



Velocity (fpm)	Press Drop (in. w.c.)
123.25	0.05
246.25	0.10
369.50	0.18
492.50	0.28
616.75	0.40

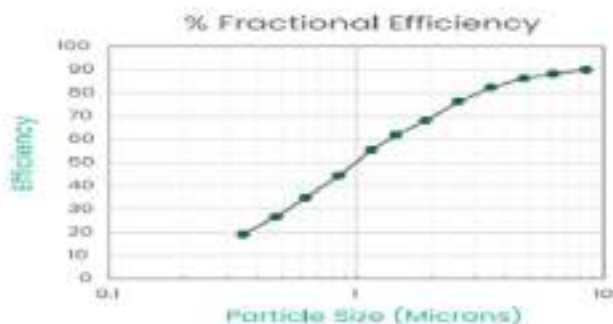
ASHRAE 52.2 Test Data

Filter Size:
24" x 24" x 2"

Test Aerosol:
KCl, Neutralized

Flow Rate:
1,968 CFM

Velocity:
492 FPM



Size Range (µm)	Initial Fractional Efficiency	
0.30 - 0.40	19.0%	E ¹
0.40 - 0.55	26.7%	
0.55 - 0.70	34.9%	
0.70 - 1.00	44.3%	
1.00 - 1.30	55.3%	E ²
1.30 - 1.60	61.9%	
1.60 - 2.20	68.0%	
2.20 - 3.00	76.3%	
3.00 - 4.00	82.3%	E ³
4.00 - 5.00	86.3%	
5.50 - 7.00	88.2%	
7.00 - 10.00	90.0%	

Monitoring – *Doing what we say we do....*

WCP Facility Solutions maintains a number of strategic alliances with technology companies providing monitoring of viable air samples and surface contamination with cloud based, and off-site notification capabilities. We suggest you purchase a monitor that shows the following to show the results of the technologies

Providing measurement of environmental parameters such as:

- Temperature
- Humidity
- Ozone
- CO2
- Pressure Differentials
- Particulate Matter from 0.1 micron to 10 micron
- VOC's

Protect family, friends, and guests to help decrease the likelihood of viral transmission. There are a number of units available in the marketplace, let us utilize our decades of experience to select the unit that is right for your home.





Keep Public Spaces Safe 24/7

- Clean all Transport Trains, Buses, and Vehicles with Microfiber
- Deodorize with Chlorine Dioxide (ClO₂) Off-Gassing tablets
- Disinfect with Hypochlorous Acid (HOCl)
- Residually Protect with SHIELD™ Protectant Technology
- Remain continuously and residually protected from home, to school, to work, and all spaces in between

DineSafe Summary



Lower Operating Costs

Cleaning, Staff Absenteeism and Presenteeism



24/7 Protection

Continuous surface + textile cleaning and sub-micron air filtering



Helps Ensure Safety

of staff and visitors



Environmentally Safe

Exceptional mold and odor control

SHIELD™ Surface Protectant

SHIELD™ Laundry Treatment

BioProtect™ 6-Hour
Hand Sanitizer

Perfect Clean™ Microfiber

Greentech™ Filters

Hospital Grade Disinfectants

Simix™ Products

Atmo-Cube™ Air Monitoring

Risk Mitigation and Management

Infection Control Consulting



WCP Facility Solutions

Your Partner for Safe and Healthy Facilities

Thank You For Your Interest!

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