

Paint Collector Performance Ranges



SPRAY BOOTH AND HVAC FILTRATION PRODUCTS

For your total air filtration needs!

Spray Booth Filters

Intake & Exhaust/Air Filters

Activated Carbon Products & Accessories

HVAC Filters

Abatement & Recirculation Filters



This filter meets GACT for sources subject to SUBPART HHHHHH (Paint Stripping and Miscellaneous Surface Coating at Area Sources) and SUBPART XXXXXX (Area Source Standards for Nine Metal Fabrication and Finishing Source Categories) (>98% EFFICIENT when tested by ASHRAE Method 52.1 in accordance with the NESHAP)

Price-to-Performance. We have the filter to meet your needs.

Columbus Industries, with the most versatile, efficient and cost-effective intake, diffusion and exhaust filters, is the undisputed leader in spray booth filtration – for either high production operations or a single spray booth.

We stock your spray booth products locally!

Columbus Industries maintains an extensive network of highly professional representatives which provides you with:

- Personal attention with onsite visit
- Best value
- Individual analysis of each system
- Factory-backed technical assistance
- Locally stocked products
- Reduced freight costs

Columbus Industries' Unparalleled Dedication to Customer Service

Columbus Industries continually strives to meet the industry's needs through the development of new overspray collectors, spray booth intake filters, diffusion media and HVAC filters which effectively fulfill specific filtration requirements. It is this unparalleled dedication to customer service that has enabled Columbus Industries to become a leading industry supplier of "performance engineered" air filtration products.

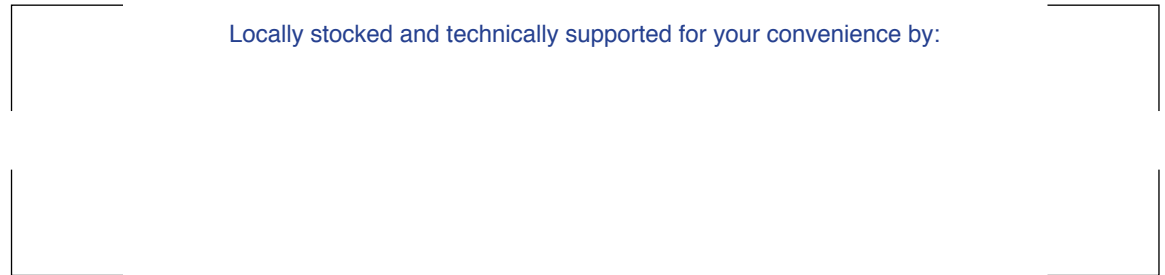
Disposal Guidelines: When loaded with residue, dispose of materials according to OSHA Regulation 1910.107, EPA Regulations 40CFR, NFPA Standard #33, or any other federal, state or local regulating authority.

Warranty Disclaimer

Columbus Industries warrants that its overspray collectors shall be of good quality workmanship and free of any material defects. EXCEPT AS SPECIFICALLY SET FORTH IN THE PRECEDING SENTENCE, COLUMBUS INDUSTRIES DOES NOT ASSUME ANY LIABILITY UNDER ANY WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, NOTWITHSTANDING ANY STATEMENTS CONTAINED IN COLUMBUS INDUSTRIES' SALES LITERATURE OR STATEMENTS MADE BY COLUMBUS INDUSTRIES' AGENTS TO THE CONTRARY. COLUMBUS INDUSTRIES' AGENTS HAVE NO AUTHORITY TO GIVE WARRANTIES THAT EXCEED THOSE

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Locally stocked and technically supported for your convenience by:



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COATING TYPE	EXPECTED ARRESTANCE EFFICIENCY RANGE (%)	EXPECTED HOLDING CAPACITY (LBS.) @.5" W.C. PER FILTER
STANDARD & STANDARD MINI-MESH OVERSPRAY COLLECTORS*		
Air-dry Enamel	96.0 - 98.0%	3.3 - 3.6
High-Solids Bake-dry Enamel	98.0 - 99.0%	4.0 - 6.0
Lacquer	84.0 - 87.0%	0.5 - 1.5
HIGH-CAPACITY MINI-MESH OVERSPRAY COLLECTORS*		
Air-dry Enamel	96.0 - 98.0%	4.0 - 5.0
High-Solids Bake-dry Enamel	98.0 - 99.0%	5.5 - 7.5
Lacquer	84.0 - 87.0%	1.0 - 2.0
SUPRA® I MINI-MESH HIGH EFFICIENCY OVERSPRAY COLLECTORS		
High-Solids Bake-dry Enamel	99.6 - 99.9% +	4.0 - 5.0
Epoxy Primer	98.5 - 99.5%	5.5 - 6.5
(Tests conducted using one layer of filter media only)		
SUPRA® II MINI-MESH HIGH EFFICIENCY OVERSPRAY COLLECTORS		
High-Solids Bake-dry Enamel	99.4 - 99.7%	4.0 - 6.0
Epoxy Primer	98.0 - 99.5%	5.8 - 6.8
(Tests conducted using one layer of filter media only)		
HIGH-CAPACITY SUPRA® I & II MINI-MESH HIGH EFFICIENCY OVERSPRAY COLLECTORS		
High-Solids Bake-dry Enamel	99.4 - 99.9% +	5.0 - 7.0
Air-dry Enamel	99.0 - 99.5%	6.0 - 8.0
Waterborne 2K	99.2 - 99.7%	2.0 - 3.0
Epoxy Primer	98.0 - 99.5%	6.5 - 8.0
(Tests conducted using one layer of filter media only)		
SL-100 PS, SL-100 PSG OVERSPRAY COLLECTORS		
High-Solids Bake-dry Enamel	99.8 - 99.9%	4.0 - 6.0
Air-dry Enamel	98.5 - 99.5%	1.8 - 2.8
(Tests conducted using one layer of filter media only)		

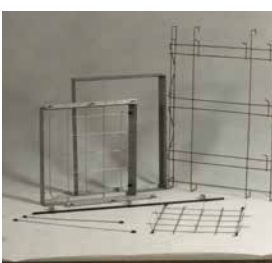
Accessories

BOOTH FLOOR COVERING



CI's Booth Floor Coverings are a diverse and multi-functional line of quality spray booth sheetings that provide a clean and safe spray booth environment. The cost-effective product lines facilitate an economic and convenient disposal of accumulated overspray residue. Each product can be cut and trimmed to fit desired spray booth surfaces, and can protect the booth floor from all paint spray applications from lacquers to high solids and beyond. CI Booth Floor Coverings are available in a wide variety of widths and grades of durability. Available in white or brown. Some versions are flame resistant.

BOOTH CONVERSION HARDWARE



CI offers a convenient, economical overspray collector module package and roll conversion strips that take the time, manpower and cost out of spray booth conversions or the development and assembly of a new booth. These simple, efficient systems, when combined with the properly supplied specified CI collectors, will keep ducts, exhaust fans and stacks clean.

Additional:

- 24" x 36" grids to easy conversion from pleated kraft filters
- Conversion strips to convert from cut pads to rolls
- Snapper bar for positive seal around top and edges for rolls
- 20" x 20" and 20" x 25" size frames available

Highest Efficiency

- SL -95B
- SL -65B
- SL -65WB
- SL -50B
- SL -45B
- SL -100ONT SURE-STOP AM®
- SL -50WB
- SL -DP5
- SL -DP1
- SL -100PSB
- SL -100GTN
- SL -100PSG
- SL -100WBT
- SL -DP2

Cube/Pocket Styles

Efficiency



Intake Filters

Supraloft® DIFFUSION PRODUCTS SL-560D, R1S, R1 w/o scrim, R2 w/o scrim

The first key to flawless spray booth performance is the proper conditioning of the intake air. The CI Diffusion Product Group offers a variety of filters that create the desired airflow uniformity by diffusing the airstream while providing the first stage of filtration by removing potentially contaminating particulates. These filters are available in rolls, as pads or panels and with or without a scrim backing to further protect the object being sprayed. For flawless finishes, start with CI diffusion filters, media and ring panels.

Supraloft® PANEL FILTERS AND LINKED PANELS

CI Panel Filters use a progressive density fiber structure that incorporates a non-migrating tackifier for optimum filter performance in airflow, efficiency and depth loading, making them a great choice for intake or pre filters. Available in both single and linked panels, the self-sealing panels prevent air bypass and increase efficiency performance. CI Panel Filters are the perfect choice to improve indoor air quality, remove contaminants and yield long service life.

CI's Panel Filters are available in a wide variety of filtration performance options, and are manufactured with vertical integration, providing stringent quality control and more efficient product development. In fact, these environmentally responsible panels are manufactured with recycled fibers whenever possible. Many of the CI Panel Filters are tackified internally as well as on the downstream side of the filter to maximize efficiency while maintaining a low resistance to airflow, providing lower energy costs and less frequent replacement needs. CI Panel Filters can meet the requirements for the LEED's program at MERV 8 with some filters having a MERV 10 rating.

Supraloft® POLYESTER ROLL MEDIA & CUT PADS

The CI Polyester Group consists of non-woven polyester products designed specifically for a wide range of HVAC and intake air filtration. The collection of both rolls and cut pads is available in a wide variety of performance levels and thicknesses – dry or tackified and with or without an anti-microbial additive. Each product has high holding capacities due to depth-loading characteristics and graduated density. Filter change out is clean, quick and efficient, and long service life means the filters need to be changed less often.

Diversified capabilities in polyester media, ranging from basic service media and paint collectors to specially designed SURE-STOP AM® media with MERV 10 performance, makes Columbus Industries a unique supplier. These high performance medias incorporate a special blend of fiber mixtures that are oriented and designed to withstand the needs of air filter media using proprietary technology.

SURE SHIELD® PLEATED FILTERS M8A, M11 & M13

CI Pleated Filters, available in both pleat and mini pleat styles in a variety of sizes and efficiency ratings, are perfect for air intake systems; the extended surface area these filters provide improve airflow and need less frequent change outs.

Pleated filters are designed using uniquely engineered mechanical filter media to provide the optimum performance in airflow resistance, efficiency and dust-loading uniformity. The MERV 8A, 11 and 13 pleated filters provide functional, high-efficiency performance using a geometrically designed pleat element. **Standard, High Capacity and High Velocity versions available.**

Merv 7 POLY-SORB® Pleated Filters also available.



	Intake Filters					Polyester										
	Diffusion Media (SL-R1, SL-R1S, SL-560D)		Diffusion Panels (SL-R1, SL-R1S, SL-560D)			SL-1A	SL-2A	SL-3A	SL-3	SL-4	SL-5A	SL-5	100WBT	100GT	100ONT	Pleats
Fine Dust/Dirt Particles	HR	HR	SR	R	HR	HR	HR	HR	HR	HR	R	R	HR	HR	HR	HR
Medium Dust/Dirt Particles	HR	HR	R	HR	HR	HR	HR	HR	HR	HR	HR	HR	HR	HR	HR	HR
Coarse Dust/Dirt Particles	R	R	HR	HR	HR	HR	HR	HR	HR	HR	HR	HR	HR	R	R	R

HR – Highly Recommended
R – Recommended
SR – Seldom Recommended

Primary Exhaust Filters



Supra® EXPANDED PAPER PAINT OVERSPRAY COLLECTORS

The entire collection of CI's Overspray Collector Group is an economical choice to catch and capture particulates from the exhaust air of paint spray booths. Each collector is fabricated from slit and expanded kraft media; many incorporating a final synthetic filtering layer in the Supra® line of collectors to capture fine particles and provide long service life. These collectors employ baffled layers to create airflow turbulence for the highest level of holding capacity possible. The density pattern of each layer assures uniform depth loading, while the kraft material captures particulates and allows solvents to evaporate. Furthermore, these collectors are GACT compliant and are available in UL and non-UL versions in pad or roll form.

Because overspray particulates differ in physical and chemical attributes, Columbus Industries offers a wide range of collector designs to meet the specific performance levels required. With its high collection efficiency, uniform airflow, excellent holding capacity and long service life, CI's Overspray Collector Group provides your operation with the lowest cost-per-unit filtration system available. Special Rx products are available if volumes justify. Performance testing based on the actual paint and operating criteria may be possible and can be arranged through a Columbus Industries Regional Sales Manager.

Supraloft® POLYESTER ROLL MEDIA & CUT PADS

The CI Polyester Group consists of non-woven polyester products designed specifically to perform in paint overspray applications. The collection of both rolls and cut pads is available in a variety of performance levels and thicknesses. Each product has increased holding capacities due to depth-loading characteristics created with different filter sizes and layering. Filter change out is clean, quick and efficient, and a long service life means the filters need to be changed less often. Many of these products are manufactured with prime grade fibers made from recycled plastics to better benefit the environment. They can be used as intake pads/rolls, primary exhaust or secondary filtration application.



Anti-microbial additive available on select products.
Contact us for details!

	Primary Filters							
	Standard & Standard Mini-Mesh	High-Capacity Mini-Mesh	Supra® I Mini-Mesh	Supra® II Mini-Mesh	High-Capacity Supra® & II Mini-Mesh	SL-100 PSG+	SL-100PS	SL-100MC
Adhesives	R	HR	SR	R	HR	SR	SR	R
Air-Dry Enamels	HR	HR	R	HR	HR	R	R	R
Asphalts	R	HR	SR	R	HR	SR	SR	R
Bake-Dry Enamels	R	R	HR	HR	HR	HR	HR	R
Clear Coats	R	R	HR	HR	HR	HR	HR	R
Epoxies	R	HR	HR	HR	HR	HR	HR	R
Fiberglass	R	HR	SR	R	HR	SR	SR	SR
Frit	R	HR	R	R	HR	R	R	R
Gel Coats	R	HR	R	R	HR	SR	SR	SR
High Solids – Enamels	SR	SR	HR	R	R	HR	HR	R
Lacquers – Nitrocellulose	HR	R	SR	R	SR	R	SR	SR
Primers – Air Dry	HR	HR	R	HR	HR	R	R	R
Tar-like Coatings	R	HR	R	R	HR	SR	SR	SR
Teflon	R	HR	R	R	HR	R	R	R
Urethanes	R	HR	HR	HR	HR	HR	HR	R
Vinyls	R	HR	R	R	HR	R	R	R
Waterbornes	R	R	HR	HR	HR	HR	HR	R
Stains	HR	HR	R	HR	R	HR	R	R
Sealers	HR	R	R	HR	R	HR	R	R
Glazers – Fillers	HR	HR	R	HR	HR	HR	R	R

HR – Highly Recommended
R – Recommended
SR – Seldom Recommended

Secondary and Pre-Abatement Exhaust Filters

Supraloft® and Ever Pak® SECONDARY EXHAUST PRODUCTS

The CI Multi-Pocket Filters are one of the best and most economical choices for extended-surface filtration. Each filter utilizes a technologically advanced media that incorporates a dual-layer, gradient-density fiber structure that results in exceptionally low airflow resistance at high efficiency levels – reducing both energy and operating costs. CI has a wide variety of cube/pockets available, several of which meet the Aerospace NESHAP requirements.

When used on today's compliance coatings such as waterborne and high solids, the Supraloft Cube Polyester bags with their excellent efficiencies and versatility are the perfect overspray collector and especially effective to back up rolls, pads and paint collector media. These filter systems are especially important when an end-user has a VOC abatement system that must be kept cleaner than traditional systems. Various products are available to meet or exceed the performance levels suggested by the abatement system manufacturer. With those specifications, we can help match the best CI product to meet those needs. Great for keeping abatement systems cleaner.



MICRO SHIELD® V-CELL

The CI MICRO SHIELD® V-Cell Filters are high-efficiency air filters designed to handle virtually any HVAC application. Each filter utilizes a technologically advanced dual density media that incorporates a dual-layer, gradient-density hybrid fiber structure that results in exceptionally low airflow resistance, at the highest efficiency levels – reducing both energy and operating costs. The user-friendly filter is lightweight, durable and easy to install. The new design includes molded finger grips for easy installation and handling. The V-Cell Filters are available in both gasketed and non-gasketed versions. Great for keeping abatement systems cleaner.



MICRO SHIELD® MINI PLEATED FILTERS

CI Mini Pleat Filters utilize technologically advanced media that incorporates a dual-layer, gradient-density fiber structure resulting in exceptionally low airflow resistance at the highest efficiency levels, reducing both energy and operating costs. They are available in 2" and 4" depths and range up to MERV 15 with best in class performance. Available in die cut and plastic. Plastics are available in headered and non headered versions. Great for keeping abatement systems cleaner.



SURE SHIELD® HIGH TEMP PLEATED FILTERS MERV 11 FOR OVENS

CI MERV 11 High Temp Pleated Filters are engineered with superior performance criteria in all facets of filtration including efficiency, resistance and dust-holding capacity. The CI SURE SHIELD® High Temp Pleated Filter is designed for oven applications with continuous operating temperatures up to 500°F. The frame is aluminum steel with a heavy metal grid and cross strap downstream to prevent blowout. The optimal filter for curing ovens and recirculating air where high performance is a must at high temperatures. The CI SURE SHIELD® MERV 11 High Temp Pleated Filter is backed by the outstanding customer service and on-time delivery that customers have come to expect from Columbus Industries.



With certain coatings and operations, the need for even more efficient products may be required. For practical cost purposes this is obtained with secondary filtration by using finer media cube/pockets, panels or pleated filters; some applications may even require rigid box, minipleat or V-cell high efficiency products. Often these are needed to keep abatement, recirculation and general plant operations clean and properly protected. This full line of products is available from Columbus Industries.

Why Efficiency Is Important

Filter Efficiency	Overspray Released into the Environment	Exhausted Paint Particles
90%	100 lbs.	
95%	50 lbs.	2 times less
98%	20 lbs.	5 times less
99.8%	2 lbs.	50 times less

This comparison is based on 1000 lbs. of overspray passing into a filter bank. It explains why efficiency is important.

Aerospace NESHAP-compliant systems available.