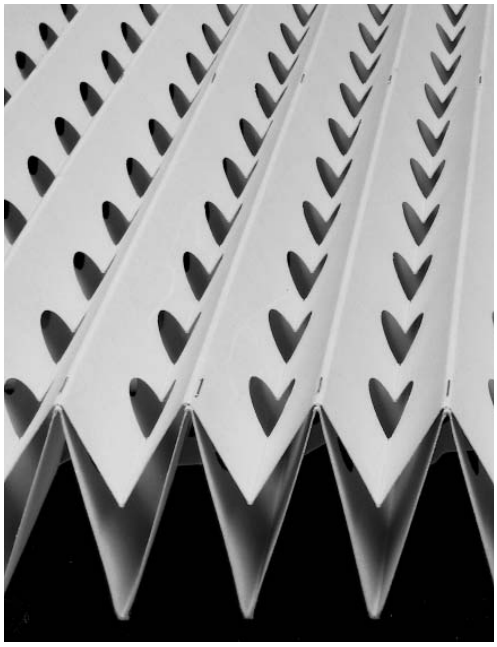
Binks AF Filter™

Improved Performance and Lower Operating Costs For Spray Booths



The Binks AF Filter delivers important benefits to spray booth operators applying most industrial coatings and adhesives. The accordion style, pleated construction captures overspray efficiently, lasts three to five times longer than ordinary dry filters, and contributes to an improved working environment.

Reduced Operating Costs

High overspray holding capacity provides longer intervals between filter changes.

- Fewer filters to dispose of means lower disposal cost
- Fewer filters to buy and inventory, reduces investment costs
- Less maintenance labor costs
- Fewer work interruptions boosts productivity

Pleated construction facilitates collapsing the filter for storage and disposal, minimizing handling costs.

Nearly constant static pressure drop over the life of the filter produces nearly uniform booth ventilation.

- Increases paint mileage and lowers material costs
- Improves working environment High filtering efficiency reduces work chamber, blower and stack maintenance.

User Friendly

- Built in expansion limiter insures proper performance
- Just two pieces required for most standard booths reduces installation time and cost
- White face reflects light to improve painter visibility

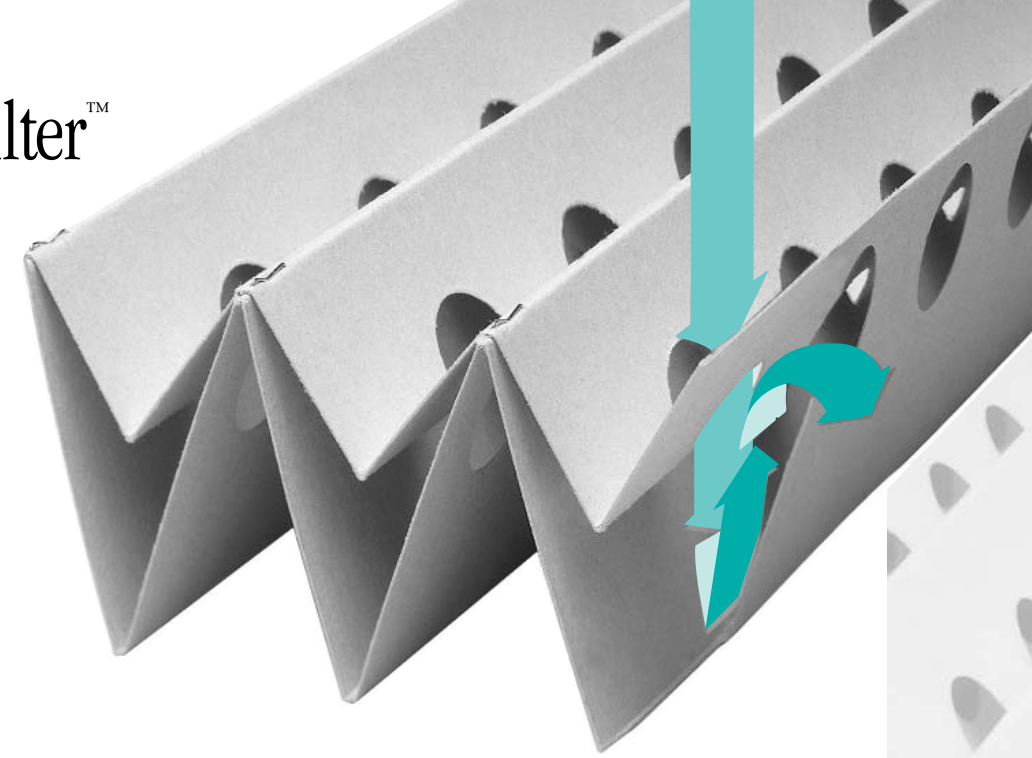
Compatibility with Coatings

- Low, medium and high solids solvent based thermoset
- Most low, medium and high solids solvent based air dry
- Low, medium and high solids water based thermoset and air dry
- All types of plural component coatings
- Most industrial adhesives
- Fiber-filled and bituminous materials
- Not recommended for use with coatings that may dry before reaching the filter

Environmentally Friendly

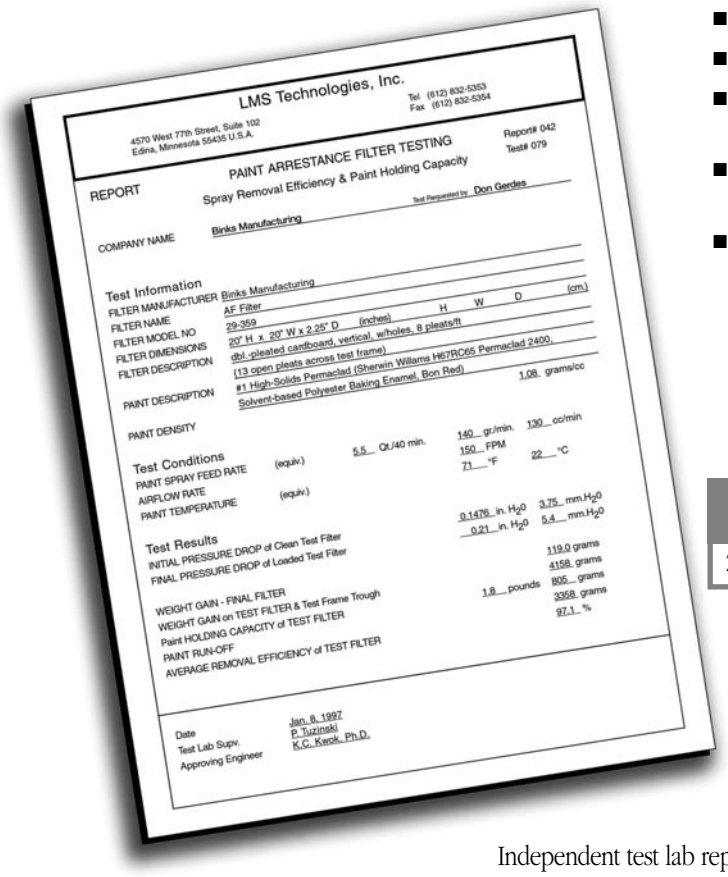
- Biodegradable and incineratible
- Collapsible to minimize disposal bulk and associated costs
- Manufactured from recycled paper

Binks AF Filter™



How It Works:

Binks AF Filter utilizes a combination of impingement and inertial separation to capture the overspray droplets suspended in the air stream passing through it. The larger droplets tend to impinge on and be retained by the front surface of the filter. The accelerating air stream carries the overwhelming majority of the mid-sized and smaller droplets through the network of circular holes distributed across the face of the filter. The forward momentum of the rapidly moving droplets separates them from the air stream which makes two quick, violent directional changes immediately after penetrating the front surface of the filter. The overspray droplets are driven into the deep interior "V" pockets formed by each filter pleat. In heavy spraying installations, slow drying and thermoset coatings may accumulate to the point they drain or run down the front face of the filter further extending the functional life of the AF filter.



LMS Technologies, Inc.

4570 West 77th Street, Suite 102
Edina, Minnesota 55435 U.S.A.

Tel (612) 832-5353
Fax (612) 832-5354

REPORT — PAINT ARRESTANCE FILTER TESTING
Spray Removal Efficiency & Paint Holding Capacity

Report# 042
Test# 079

COMPANY NAME: Binks Manufacturing — Test Requested by: Don Gerdes

Test Information

FILTER MANUFACTURER	Binks Manufacturing					
FILTER NAME	AF Filter					
FILTER MODEL NO	29-359					
FILTER DIMENSIONS	20" H x 20" W x 2.25" D	(inches)	H	W	D	(cm.)
FILTER DESCRIPTION	dbl.-pleated cardboard, vertical, w/holes, 8 pleats/ft					
	(13 open pleats across test frame)					
PAINT DESCRIPTION	#1 High-Solids Permaclad (Sherwin Williams H67RC65 Permaclad 2400,					
	Solvent-based Polyester Baking Enamel, Bon Red)					
PAINT DENSITY						1.08 grams/cc

Test Conditions

PAINT SPRAY FEED RATE	(equiv.)	5.5 Qt./40 min.	140 gr./min. 130 cc/min
AIRFLOW RATE			150 FPM
PAINT TEMPERATURE	(equiv.)		71 °F 22 °C

Test Results

INITIAL PRESSURE DROP of Clean Test Filter	0.1476 in. H_2O	3.75 mm H_2O
FINAL PRESSURE DROP of Loaded Test Filter	0.21 in. H_2O	5.4 mm H_2O
WEIGHT GAIN - FINAL FILTER		119.0 grams
WEIGHT GAIN on TEST FILTER & Test Frame Trough		4158. grams
Paint HOLDING CAPACITY of TEST FILTER	1.8 pounds	805. grams
PAINT RUN-OFF		3358. grams
AVERAGE REMOVAL EFFICIENCY of TEST FILTER		97.1 %

Date: Jan. 8, 1997
Test Lab Supv.: P. Tuzinski
Approving Engineer: K.C. Kwok, Ph.D.

Independent test lab report

Technical Data:

- Average Capturing Efficiency — 97.14% @ 150 FPM, w. high solids baking enamel. (Actual efficiency is a function of the coating being sprayed and the associated operating conditions)
- Recommended Average Air Velocity — 100 - 200 FPM
- Nominal Pressure Drop @ 150 FPM — 0.15 inch W.C.
- Maximum Pressure Drop — 1 inch W.C. with center support; 0.5 inch without
- Filter Size (Expanded): — 30 ft. x 3 ft. x 2.5 in (90 sq. ft. of effective surface area)
- Expansion — Limited by permanently attached straps to 8 pleats per foot

PRODUCT NUMBER	BINKS AF FILTER DIMENSIONS	SHIPPING WEIGHT (POUNDS)
29-2186-3	3′ x 30′ 3 Pack only	63