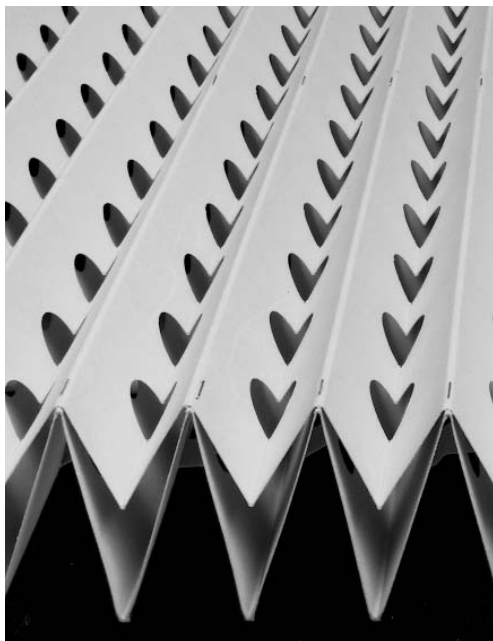


Binks AF Filter™

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

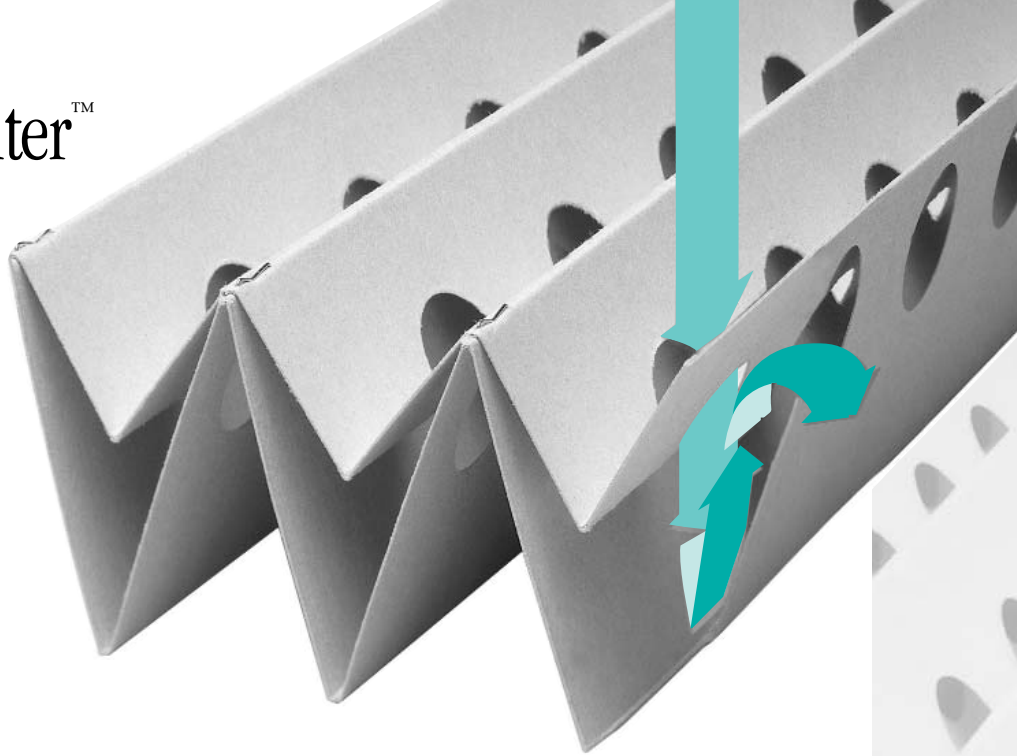
Environmentally Friendly

- Biodegradable and incineratable
- 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 theroset 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.



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

LMS Technologies, Inc.
4570 West 77th Street, Suite 102 Edina, Minnesota 55436 U.S.A. Tel: (612) 832-5353 Fax: (612) 832-5354

Report# 042
Test# 079

PAINT ARRESTANCE FILTER TESTING
Spray Removal Efficiency & Paint Holding Capacity

COMPANY NAME: Binks Manufacturing Test Performed 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 H67FC65 Permaclad 2400, Solvent-based Polyester Baking Enamel, Bon Red) 1.08 grams/cc

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

Test Results
 INITIAL PRESSURE DROP of Clean Test Filter: 0.1478 in. H₂O 3.75 mm.H₂O
 FINAL PRESSURE DROP of Loaded Test Filter: 0.21 in. H₂O 5.4 mm.H₂O
 WEIGHT GAIN - FINAL FILTER: 119.0 grams
 WEIGHT GAIN on TEST FILTER & Test Frame Trough: 4158 grams
 Paint HOLDING CAPACITY of TEST FILTER: 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. Kerol, Ph.D.

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

Independent test lab report