

# Spray Booth Filter Paper

***BINKS***®

[www.binks.aerem.com](http://www.binks.aerem.com)

**AEREM**®  
TO FILTER & PROTECT

Product by Aerem  
[www.aerem.com](http://www.aerem.com)

# Summary

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# History

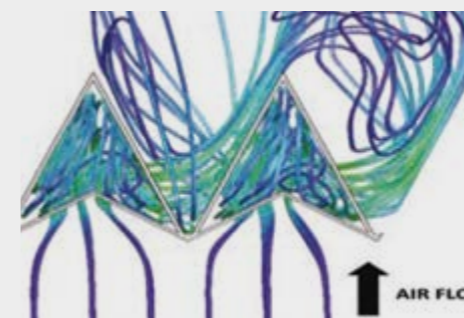
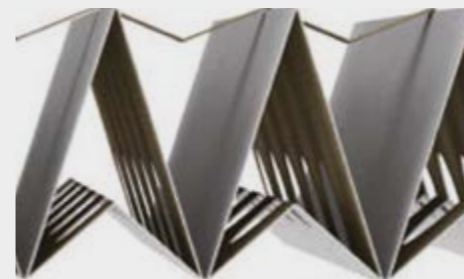
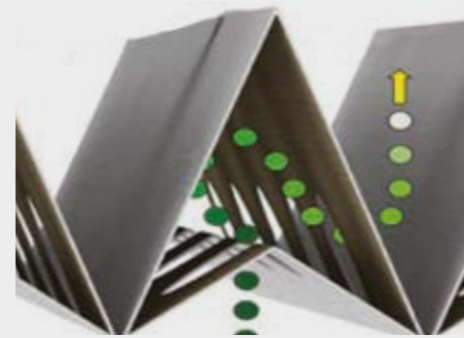
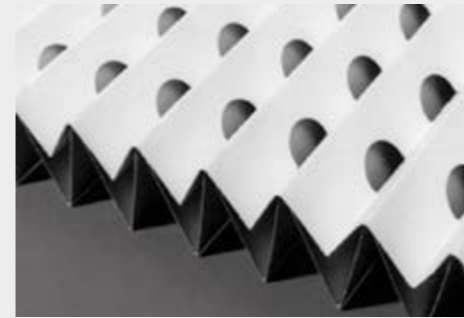
In 1890, Joseph Binks pioneered the spray gun industry with the introduction of the first cold-water paint spraying machine.

Binks used his invention to rescue the opening of the 1896 Colombian Exposition. Just days before the opening, nine of ten exhibit buildings stood unpainted, but Binks saved the day.

Today you will find spray finishing and paint circulating technology from Binks at work in virtually every industry around the world.



# Technology



1. Binks filters use a combination of impingement and inertia separation to capture the overspray droplets suspended in the airstream passing through it.

The larger droplets tend to impinge and be retained by the front V shaped surface of the filter, preventing the bounce back effect of overspray. Whilst the accelerating air stream carries the overwhelming majority of the mid and smaller sized droplets through the network of circular holes distributed across the face of the filter.

2. The forward momentum of the rapidly moving droplets separates them from the air stream which makes four quick and violent directional changes and so, deposits the droplets into the deep interior V pockets formed by each pleat.

Our filter delivers important benefits to spray booth operators applying most industrial coatings and adhesives. Because the accordion style, stapled pleated construction captures overspray efficiently, last three to five times longer than ordinary dry filters and contributes to an improved, brighter working environment.

3. One of the common problems experienced with traditional mesh filters occurs when they are used for slow drying coatings. During the time they take to dry, the constant airflow can drag out the still wet particles trapped in the mesh and re-launch them to migrate through the system.

The Binks filter design has in effect created a blind alley into once the droplets are driven; they are permanently trapped and cannot be re-launched into the air stream. Another added benefit to our filter is its high capacity for overspray holding. This results in a lower frequency of filter change, lower booth maintenance, meaning that fewer filters are required to be in stock, making them more cost effective. The holding capacity is a direct result of the size and depth of the filter pocket, a full 6cm deep.

4. The opposing picture shows the Binks filter construction, which includes on the rear side an expansion strap to ensure the correct spacing of 8 corrugations to every foot (30.4cm) guaranteeing optimum and superior filter performance.

Additionally, because the superior ability of the Binks filters to hold a high capacity of overspray, the fluctuation in resistance to airflow is absolutely minimal over the life of the filter.

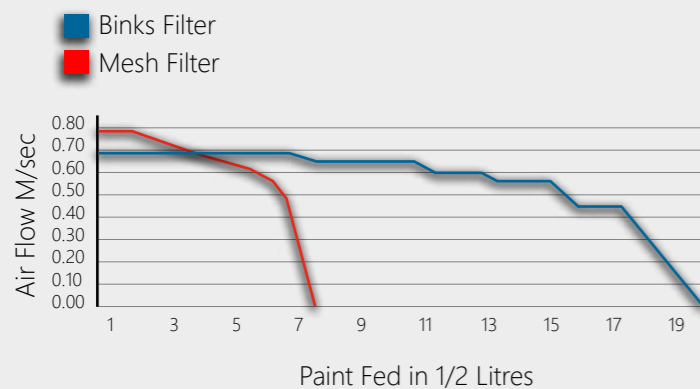
5. Consequently the static pressure increases only slowly with the accumulation of paint, enabling a uniform airflow around the parts that are being coated, and more importantly clean air environment for the sprayers.

The construction of the Binks filter consists of two pieces of strong recycled cardboard, formed in to an accordion structure, stapled together for strength and rigidity throughout the assembly. The stapled assembly, coupled with the tight folds and crisp cutting of the holes promotes the optimum airflow through the filter, whilst obtaining the best entrapment of overspray.

Finally the rigidity of the structure and the precise arrangement of the holes along the middle of the front face, the sides of the rear face, and with the deliberate misalignment of the two, combine to create a product of true benefit.

# Why choose Binks ?

- ✓ Outlasts other filters three to five times
- ✓ Manufactured from 100% Recycled Paper
- ✓ Up to 98.1% filtration for Standard, Super ECO and ECO filter paper
- ✓ Up to 99.76% filtration efficiency for Super filter paper
- ✓ High Loading Capacity
- ✓ Reduces your running cost
- ✓ Longer working life
- ✓ Low pressure drop



# BINKS®

THE SUPERIOR DESIGN HAS ESTABLISHED BINKS AS THE MARKET LEADING PRODUCER AROUND THE WORLD.

### Filter Construction

Binks disposable filters consist of two pieces of heavy kraft, 100% recycled paper, which is manufactured to the highest technical standard. The accordion style structure, is not only glued, but stapled together during the manufacturing process, to provide additional strength and rigidity, no other filter manufacturer offers this type of construction.

Binks Filters feature a unique expansion strap on the rear that ensures the correct spacing of 8 corrugations to every running foot (30.4cm) importantly this guarantees optimum and superior spray booth filtering performance.

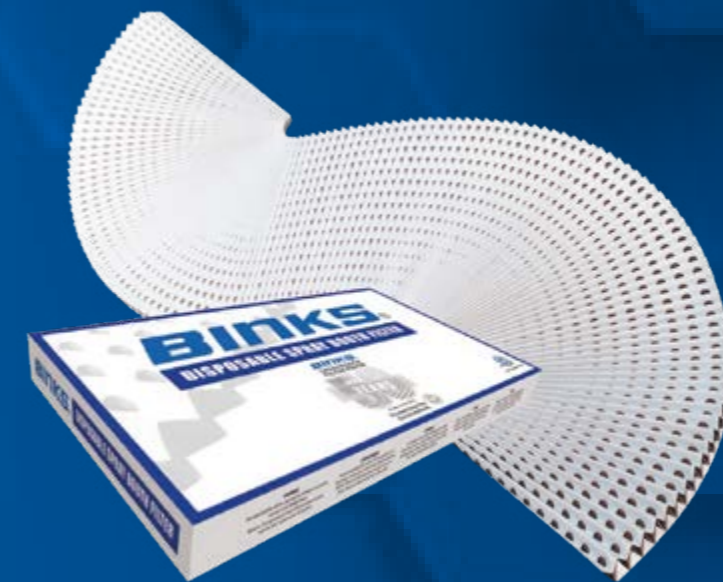
The large air openings in the filter allow high volumes of air to be exhausted without loss of efficiency as the media "loads", resulting in a much longer working life than other systems.

### Applications

Binks Filters can be used on any liquid overspray in the General Finishing Industry.

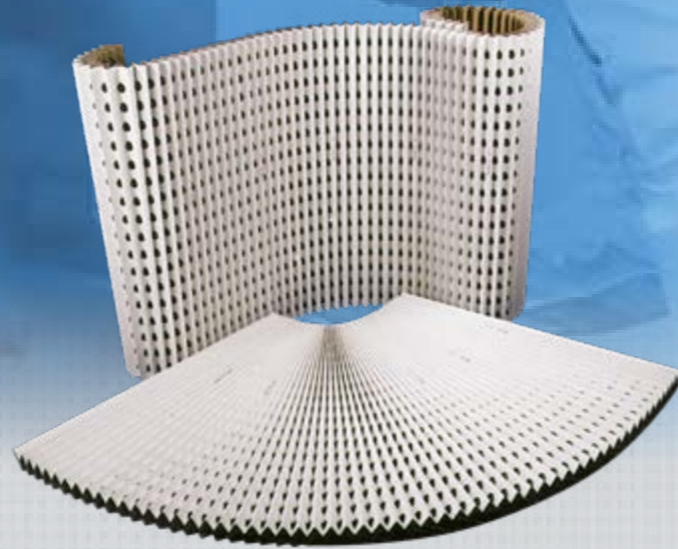
### Certification

Binks filters are supported by a full technical data report, they are ATEX approved, backed up with Carlisle Fluid Technologies ISO credentials. Full performance certification is available on request.



## ECONOMY

2 layers of bright white or brown paper, punched, pleated, fitted with expansion straps, then stapled together. For superior strength and longer working life.



### Eco Filter Paper Specification

**Filter Construction:**

Self supporting, two ply high strength cardboard paper. Bright or Brown white finish.

**Air Flow Rates:**

100-200 feet per minute (0.5 - 1.0 metres per second) Normal 140 fpm (0.7 ms)

**Pressure Differential:**

Initial @ 0.75 M/S = 30 PA (0.12" SWG), MAXIMUM 130-250 PA (0.52"-1.0" SWG)

**Temperature Range**

MAXIMUM 180°C (356°F)

**Expansion Limiter**

Expansion limiting straps ensure correct pleat guaranteeing optimum density of 8 corrugations per running foot (30.4cm)



### Basic Filter (Brown)

Part No	Surface Area	Filter Size Imperial	Filter Size Metric (cms)
207229BF	10 Sq yd	H 36" x L 30'	H 90 x L 924
207900BF	10 m2	H 30" x L 44'	H 75 x L 1346
207901BF	10 m2	H 36" x L 36'	H 90 x L 1115
207902BF	10 m2	H 39" x L 34'	H 100 x L 1038

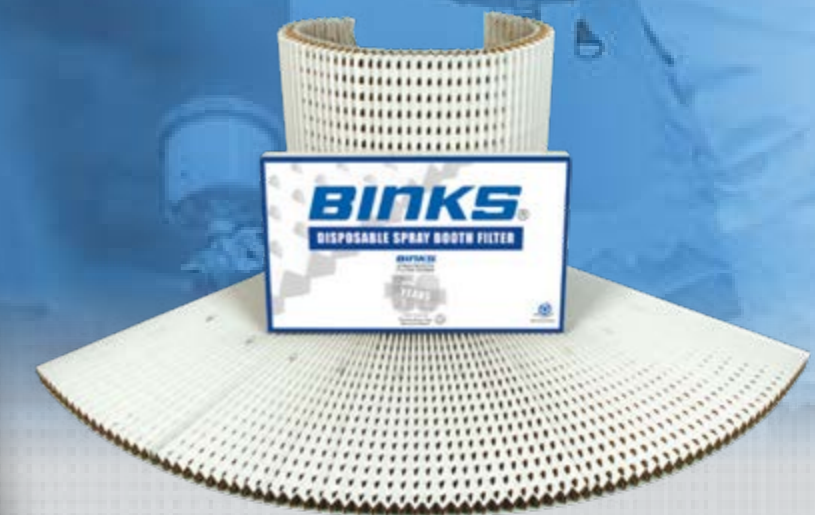
### Economy Filter (White)

Part No	Surface Area	Filter Size Imperial	Filter Size Metric (cms)
207229EF	10 Sq yd	H 36" x L 30'	H 90 x L 924
207900EF	10 m2	H 30" x L 44'	H 75 x L 1346
207901EF	10 m2	H 36" x L 36'	H 90 x L 1115
207902EF	10 m2	H 39" x L 34'	H 100 x L 1038

## PREMIUM

**White:** 2 layers of bright white paper, punched, pleated, fitted with expansion straps, then stapled together. For superior strength and longer working life.

**HE:** 2 layers of high grade paper, punched, pleated, fitted with a polyester final stage filtration, with expansion straps, then glued and stapled.



### Eco Filter Paper Specification

**Filter Construction:**

Self supporting, two ply high strength cardboard paper. Bright white finish.

**Air Flow Rates:**

**White:** 100-200 feet per minute (0.5 - 1.0 metres per second) Normal 140 fpm (0.7 ms)

**HE:** 0.5-1.0 metres per second (100-200 feet per minute) Normal 0.7 m/s (140 FPM)

**Pressure Differential:**

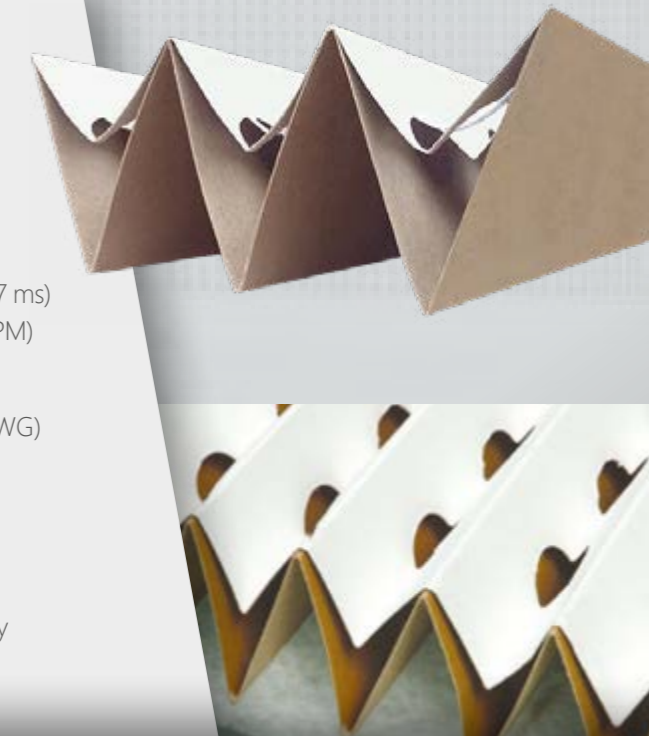
Initial @ 0.75 M/S = 30 PA (0.12" SWG), MAXIMUM 130-250 PA (0.52"-1.0" SWG)

**Temperature Range**

**White:** MAXIMUM 180°C (356°F) / **HE:** MAXIMUM 100°C

**Expansion Limiter**

Expansion limiting straps ensure correct pleat guaranteeing optimum density of 8 corrugations per running foot (30.4cm)



### Standard Filter (White)

Part No	Surface Area	Filter Size Imperial	Filter Size Metric (cms)
207229F	10 Sq yd	H 36" x L 30'	H 90 x L 924
207900F	10 m2	H 30" x L 44'	H 75 x L 1346
207901F	10 m2	H 36" x L 36'	H 90 x L 1115
207902F	10 m2	H 39" x L 34'	H 100 x L 1038

### Super Efficiency Filter (White)

Part No	Surface Area	Filter Size Imperial	Filter Size Metric (cms)
207229SEF	5.4 m2	H 36" x L 20'	H 90 x L 600
207901SEF	8.35 m2	H 36" x L 30'	H 90 x L 924
207902SEF	8.35 m2	H 39" x L 26'	H 100 x L 800

# AEREM<sup>®</sup>

## TO FILTER & PROTECT

### OUR MISSION

AEREM focuses on its customers and partners needs in the finishing industry. Every relationship is a privileged partnership based on professionalism, dialog and trust. Delivering the best service with performant, environmentally friendly quality products easy to dispose of is our commitment since 1963.

Our mission is to develop, manufacture and supply high performant filtration and protection products for spray booths that aim to keep a clean and safe working environment while enhancing the spray booths productivity.

### OUR VISION

AEREMs ambition is to affirm its position by becoming an international multi-brand company focused on the global finishing industry with a wide variety of renowned and innovative filtration and protection products.

### OUR VALUES

AEREM is above all a work of men and women united around the world for the success of the Group. They all share the same values in a solidarity and caring climate.

#### ENVIRONMENT

Protecting the environment is the responsibility of everyone. AEREM uses recycled raw materials in all of its products. Our sharply tuned and performant production processes results in low waste and low energy consumption.

#### CUSTOMER CARE

Because all our customers are important, our priority is to support them in their projects, build and maintain a long-term partnership to be able to bring the answers adapted to each need. Over 900 distributors around the world trust us.

#### PROTECTION

We seriously consider the need to protect the operator and provide a secure working environment through our products and services. This is why our filters are free of polluting or toxic products. They can be stored, handled and incinerated or landfilled safely.

#### MULTICULTURALISM

Aerem is a selfie of multiculturalism and diversity. Our teams are made of men and women of different languages, cultures and origins. It is in this spirit of openness and diversity that we seek to build a partnership with you.

#### RESPECT & INTEGRITY

We treat others with respect and comply with all internal and external norms and regulations. We strive to always act with transparency and honesty.

# *BINKS*<sup>®</sup>

# AEREM LOCATIONS WORLDWIDE



## AMERICAS



### CANADA

5000 Rue Hickmore  
Saint-Laurent, QC H4T 1K6  
Tel: +1 514-375-7100  
Customers.ame@aerem.com



### USA

Tel: +1 866 263 7323  
Customers.ame@aerem.com

## EUROPE



### SWITZERLAND

Rue du Jeu de L'Arc 15  
CH - 1207 Genève  
Tel: +41 21 869 93 63  
Customers.eur@aerem.com



### POLAND

ul. Lubczyńska 6 F  
PL - 70-895 Szczecin  
Tel: +48 91 884 90 00  
Customers.eur@aerem.com

## ASIA-PACIFIC



### SINGAPORE

22 Gemmill Lane #03-01  
Singapore 069257  
Tel : +65 6922 7800  
Customers.api@aerem.com

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