

The superior design has established Binks as the market leading producer around the world. The filter paper range includes Standard, Super ECO, ECO and Super Efficiency.

## 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 Finishing Brands ISO credentials. Full performance certification is available on request.

---

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

---

Stapled and glued construction for extra strength and longer life

---

Bright White Face - Improves spray booth lighting conditions

---

High Loading Capacity – longer working life – Low pressure drop

---

Expansion Strapping Ensures Optimum Performance

---

Concertina Design Reduces, Storage and Transport Costs

---

Self supporting heavy duty high grade paper

---

Reduces your running cost "less energy, filter changes and disposal costs"





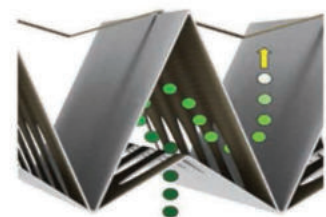
## Binks Spray Booth Filter Paper Overview



Binks filters utilise 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.



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.



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.

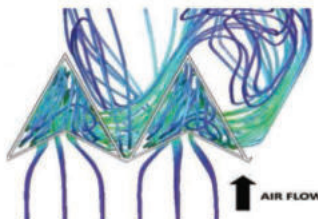
Another added benefit to our filter is its high capacity for overspray holding. This results in a lower frequency of filter change, lower booth maintenance, meaning that fewer filters are required to be in stock, making them more cost effective.

The holding capacity is a direct result of the size and depth of the filter pocket, a full 6cm deep.



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.



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.

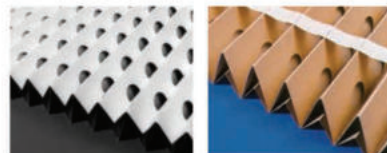
### ECO Filter

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

| Part No  | Description           | Surface Area | Filter Size Imperial | Filter Size Metric (cms) |
|----------|-----------------------|--------------|----------------------|--------------------------|
| 207229EF | Eco Filter            | 10 Sq yds    | H 36" x L 30'        | H 90 x L 924             |
| 207900EF | Eco Filter            | 10 Sq mtrs   | H 30" x L 44'        | H 75 x L 1346            |
| 207901EF | Eco Filter            | 10 Sq mtrs   | H 36" x L 36'        | H 90 x L 1115            |
| 207902EF | Eco Filter            | 10 Sq mtrs   | H 39" x L 34'        | H 100 x L 1038           |
| 207903EF | Eco Filter (2 Pieces) | 10 Sq mtrs   | H 19" x L 34'        | H 50 x L 1038            |

#### ECO Filter Paper Specification

|                       |   |
|-----------------------|---|
| Filter Construction   | Self supporting, two ply high strength cardboard paper. Bright 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)<br>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) |





### Filter Extended Life Span explained:-

During the loading phase of the Binks filter, the airflow stays free although the filter is loading with paint.

Unlike mesh filters which will face load quickly, this quite simply means the paint will seal its face, in turn preventing the optimum booth airflow, so the full depth potential of the mesh filter is not utilised.

The graph shows that Binks filters have a substantially longer and flatter curve than the mesh filter. Which demonstrates the superior holding capacity and enhanced air flow stability, throughout the life of the filter.

With the static pressure increasing much slower with the accumulation of paint on the Binks filter, this produces three major advantages:

- Airflow remains evenly distributed over the entire extraction surface of the booth
- The air flow around the parts to be sprayed or coated, stays uniform
- The painter/operator stays in an environment of cleaner air.



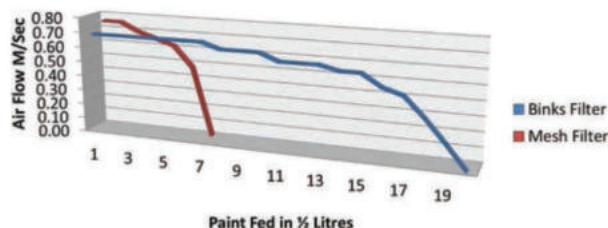
#### Typical values of Binks paper grade:

|                         |      |      |
|-------------------------|------|------|
| Std g/m <sup>2</sup>    | 250  | 280  |
| Moisture Reel Average % | 8    | 8    |
| Burst kPa               | 500  | 550  |
| Cobb30 g/m <sup>2</sup> | 100  | 100  |
| Porosity Gurley s/100ml | 30   | 35   |
| Smoothness ml/min       | 2300 | 2500 |
| Wax Pick                | 16   | 16   |
| SCT CD kN/m             | 390  | 440  |

#### No waste

For speedy fitting and cutting the filters are marked at 12" (30.4mm) increments on every eighth corrugation, any left over pieces can be stapled or taped together to form new filter lengths.

Air Velocity v Paint Loading



| Shipping Data     | Pleats | Box Weight       | Box Dimensions   | Std Pallet Quantity | Larger Quantity Option |
|-------------------|--------|------------------|------------------|---------------------|------------------------|
| 207229F (36")     | 240    | 9.5 Kg / 21 Lbs  | 92 x 56 x 7 cms  | 50                  | 60                     |
| 207900F (75cm)    | 352    | 11.3 Kg / 25 Lbs | 77 x 67 x 7 cms  | 50                  | 54                     |
| 207901F (90cm)    | 290    | 11.3 Kg / 25 Lbs | 92 x 56 x 7 cms  | 50                  | 60                     |
| 207902F (100cm)   | 264    | 11.3 Kg / 25 Lbs | 102 x 55 x 7 cms | 50                  |                        |
| 207903F (100cm)   | 264    | 11.3 Kg / 25 Lbs | 102 x 55 x 7 cms | 50                  |                        |
| 207229EF (36")    | 240    | 9.5 Kg / 21 Lbs  | 92 x 56 x 7 cms  | 50                  | 60                     |
| 207900EF (75cm)   | 352    | 11.3 Kg / 25 Lbs | 77 x 67 x 7 cms  | 50                  | 54                     |
| 207901EF (90cm)   | 290    | 11.3 Kg / 25 Lbs | 92 x 56 x 7 cms  | 50                  | 60                     |
| 207902EF (100cm)  | 264    | 11.3 Kg / 25 Lbs | 102 x 55 x 7 cms | 50                  |                        |
| 207903EF (100cm)  | 264    | 11.3 Kg / 25 Lbs | 102 x 55 x 7 cms | 50                  |                        |
| 207229BF (36")    | 240    | 10.6 Kg / 24 Lbs | 92 x 56 x 7 cms  | 50                  | 60                     |
| 207900BF (75cm)   | 352    | 12.3 Kg / 27 Lbs | 77 x 67 x 7 cms  | 50                  | 54                     |
| 207901BF (90cm)   | 290    | 12.4 Kg / 27 Lbs | 92 x 56 x 7 cms  | 50                  | 60                     |
| 207902BF (100cm)  | 264    | 12.4 Kg / 27 Lbs | 102 x 55 x 7 cms | 50                  |                        |
| 207903BF (100cm)  | 264    | 12.4 Kg / 27 Lbs | 102 x 55 x 7 cms | 50                  |                        |
| 207229SEF (36")   | 168    | 9.5 Kg / 21 Lbs  | 92 x 56 x 7 cms  | 50                  | 60                     |
| 207901SEF (90cm)  | 212    | 11.3 Kg / 25 Lbs | 102 x 55 x 7 cms | 50                  |                        |
| 207902SEF (100cm) | 212    | 11.3 Kg / 25 Lbs | 102 x 55 x 7 cms | 50                  |                        |

**Note:** Binks filters can be sized for downdraught or flatline system spray booths.

### Sales and Service through our Global Network of Distributors

Finishing Brands Locations

Americas: **USA ■ Mexico ■ Brazil**

Europe/Asia/Africa: **United Kingdom ■ France ■ Germany ■ India**

Pacific Rim: **China ■ Japan ■ Australia**

**BINKS®**
**Turchifiltri**  
 we love air

DeVILBISS

Ransburg

BGK

BINKS

**Finishing Brands.**

A CARLISLE COMPANY