



# Technical Bulletin

A technical source for the employees and clients of Osprey Corporation.

## Subject: Filter Media Development

Of the many Osprey product improvements over the years, none has affected as many customers as filter media development. Several of our media types work well in multiple applications. However, no single media can satisfy all situations.

**Osprey offers media in Tumbled and Untumbled versions.** Tumbled media refers to a batch drying and curing process that produces a curly top fiber. This process works well at stopping fiber dust with SAP content. The Untumbled media has fibers that are straight. The straight fibers allow particulate to be more easily extracted by the filter cleaning system, but offers reduced resistance for dust fines to reach the media backing.

**Another visible feature in Osprey media is color.** However, color is strictly for identification purposes. Color actually has nothing to do with the effectiveness of the filter media.

**Porosity is a good indicator of a media's effectiveness.** It is expressed in CFM (cubic feet per minute) of air passing through one square foot of media at .5 inches (water column) loss.

Listed below is a brief description of the seven most common Osprey media types.

### Model 837-33

Pale yellow in color, tumbled, with a porosity of 230 CFM, this media is often referred to as "Poodle" media. Since the late 1980's, this has been Osprey's most popular general-purpose media. It has worked extremely well in numerous applications such as cellulose/SAP combinations, textiles, plastics, fiberglass, and tissue dust.

### Model 833 -11

White in color, un-tumbled, with a porosity of 230 CFM, this is basically the un-tumbled version of the above 837 model. As with all our un-tumbled versions, the straight fiber allows for easier extraction of fines by the filter cleaning system. This type can be beneficial on certain applications, for example Phoenix filters, and Disk/Drum filter sections, where high rotation speeds are required.

### Model 833-205

This new media is dark tan or brown in color, un-tumbled, with a porosity of 247 CFM. This media has similar design characteristics as the 833-11 above while 1/8" thicker. Recommended

applications included both drum and disk filters. Longer fiber means more potential depth loading of dust and fines. A high performance nozzle cleaning system is required with this media.

### Model 810-736

Gray in color, un-tumbled, with a porosity of 153 CFM, this media has a similar backing but has a denser surface than our standard 837 media. This media is designed to hold fines closer to the surface longer. This media can be a good selection for Disk/Drum filters and can occasionally be considered for applications on drum filters.

### Model 810-8

This new media is peach or melon in color, un-tumbled, with a porosity of 153 CFM. This media has a similar design as the Model 810-736 above. This media has a 1/8" thicker pile as the gray. The main application for this media is the secondary disk filter. A high performance nozzle cleaning system is required with this media.

### Model 822-726

Light blue in color, tumbled, with a porosity of 338 CFM, a very open media designed to allow more fines to pass through to a cartridge type Final Filter. This media is useful where fine SAP or other contaminates plug or block the backing of other media types. "Ice Blue" offers a long media life, but it is not recommended for filters without an Osprey Final Filter.

### Model 883

Pale yellow in color, un-tumbled, this special high temperature media is used in applications where temperatures range from 250 to 350 degrees Fahrenheit.

Osprey still offers older media styles traditionally used in the textile industry like Yukon, Red Stripe, and Blue Stripe. We have dozens of different media types and subtypes at our disposal. However, the most popular are listed above and fill the needs of 95 percent of the applications encountered.

Please contact your Osprey representative if you have any questions concerning your media type. ☺

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