



Graver Technologies

Filtration | Separation | Purification

Functionalized Liquid Polishing (FLiP™) Filter

The FLiP™ (Functionalized Liquid Polishing) Filter Element was developed in response to the nuclear industry's need to remove the final trace contaminants still present in the liquid stream after full system processing. These trace contaminants, ie., Cobalt, Cesium, and secondarily, Antimony – which can be found both suspended (filterable) and dissolved (ion exchangeable) – are removed by the FLiP Filter Element, thereby, reducing the amount of curies released to the environment.

Filter Configurations

Ion selective configurations available:

- Cesium (Cs).
- Cobalt (Co).
- Antimony (Sb) – *The Co FLiP™* element has demonstrated a secondary specificity benefit for Antimony (Sb) removal.

A single set of filter elements has successfully processed >250,000 gallons of liquid radwaste*.

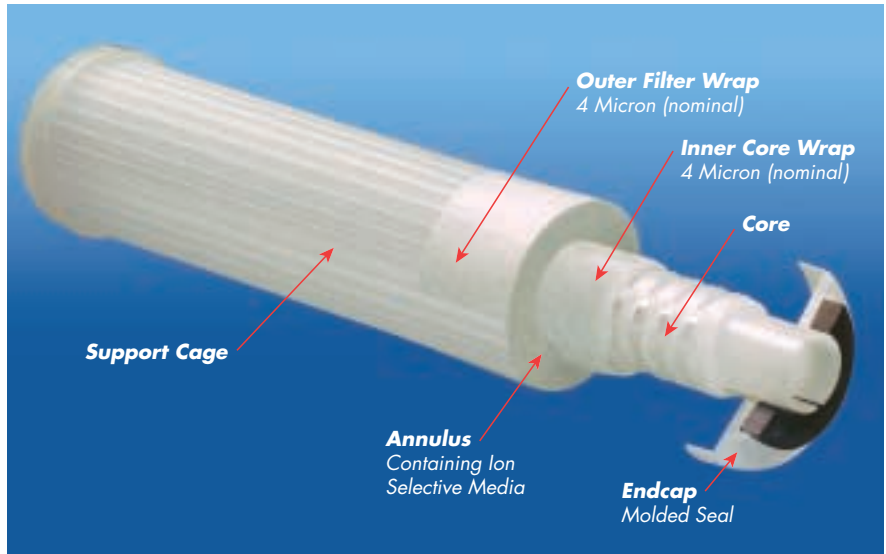
Design Features

Performs best as a polishing filter (normally placed downstream of an ion exchange system) to remove the remaining trace contaminants found in a liquid stream.

Filter element features:

- A low differential pressure at rated flows of just under 2 gallons per square foot of filter surface area.
- Light weight, easy to install, small disposal size.
- No additional chemical treatment required.
- Inner and outer wrap are made of polypropylene filter cloth.
- The annulus region (the area lying between the inner and outer filter wrap) is packed with ion selective material.
- A polypropylene inner core for strength and an outer polypropylene cage for filter stability.

* A North American PWR treated >250,000 gallons utilizing a Six Co-FLiP™ filter array producing routine MDA effluent water.



Filter Specifications

| | |
|-----------------|---------------------|
| Media: | Polypropylene |
| Inner core: | Polypropylene |
| End caps: | Polypropylene |
| Cage: | Polypropylene |
| Rated Pressure: | ~2–3 psi |
| Flow Rate: | ~1.8 gpm/10" filter |

Standard filter size and dimensions fit most standard filter housing applications. Standard configurations are typically 10" (.55ft² filter surface area), 20" (1.1 ft²), or 30" (1.65ft²) inch lengths x 2.5" inch OD.

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For more information

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