



Graver Technologies

## DualGuard I, II, and III Dual Purpose (Precoat/Nonprecoat) Filter Elements

The DualGuard dual purpose filter elements are engineered for systems that require a uniform precoatable surface for a proper ion exchange reaction zone and an inner filtration barrier to efficiently (>90%) remove corrosion products from fluid streams. The DualGuard I element has an outer barrier made by winding yarn strands around a guard cage. The DualGuard II element has a filter cloth wrap protected by an extruded polypropylene cage as the precoat barrier. The DualGuard III element uses a filter cloth wrap protected by a molded polypropylene cage. The open pore structure of the outer precoat barrier provides support structure to retain flocced resin precoats while allowing for an effective backwash for the filter media. All styles of DualGuard elements have an inner pleated filtration barrier.

The inner pleated filter media is available in a variety of micron grades to meet specific requirements of the individual systems. Like all of the filters from Graver Technologies, a variety of end fittings can be selected to retrofit the elements in existing Graver Water or other filter systems.

DualGuard elements are all polypropylene construction (except for gaskets or o-rings) to accommodate incineration or compacting for waste volume minimization.



### Filter Specifications

Media:	Polypropylene
Inner Core:	Polypropylene
End caps	Polypropylene
Protective Cage	Polypropylene
Gaskets/O-Rings	EPDM
Micron Ratings	1, 2, 5, 10, 25

### Dimensions

Nominal Lengths (in.)	54, 60, 70, 80
Outside Diameter (in.)	2.1, 2.6
Inside Diameter (in.)	1
Maximum Operating Temperature	175 F
Maximum Operating Differential Pressure	25 PSI @ 130 F

### Filter Features

- Precoatable with a full or thin layer of powdered resin.
- Outer support layer to provide a uniform ion exchange reaction zone
- Fixed pore construction minimizes dirt unloading as differential pressure increases.
- High surface area of pleated media
- Removal efficiency of up to 99.9%
- All polypropylene construction for waste volume reduction.

	DualGuard I (2.1)	DualGuard I (2.6)	DualGuard II	DualGuard III
Precoat Barrier	Yarn Windings	Yarn Windings	Filter Cloth Sleeve	Filter Cloth Sleeve
Guard Cage	Polypropylene	Polypropylene	Extruded Polypropylene	Molded Polypropylene
End Caps	Molded Polypropylene	Molded Polypropylene	Molded Polypropylene	Molded Polypropylene With Encapsulated Gasket
Core	None	Standard	Standard	Heavy Wall
Filter Cloth	Pleated	Pleated	Pleated	Pleated
Precoat Surface Area per 10" equivalent	~0.45 sq. ft.	~0.57 sq. ft.	~0.57 sq. ft.	~0.57 sq. ft.
Pleated Surface Area per 10" equivalent	3.2 sq. ft.	~8.5 sq. ft.	~8.5 sq. ft.	~8.5 sq. ft.
Crud Holding Capacity per 10" equivalent	~10 grams	~26 grams	~26 grams	~34 grams

### Need More Information?

DualGuard™ filter elements and the Aegis® precoat/non-precoatable filter elements are members of Graver Technologies' family of purification products. They can be ordered individually or as part of Graver Technologies' Extended Services Program (ESP). For current information on size, availability, and prices, please contact Graver Technologies' Customer Service Department at 1-800-533-6623 or e-mail to [info@gravertech.com](mailto:info@gravertech.com)

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Graver Technologies

200 Lake Drive  
Glasgow, DE 19702

302-731-1700  
Fax 302-731-1707

email: [info@gravertech.com](mailto:info@gravertech.com)  
web site: [www.gravertech.com](http://www.gravertech.com)