

CRB Pleat

Resin-Bonded Pleated Depth Cartridge

Capitalizing on more than 30 years of filter media conversion expertise, The Strainrite Companies deliver the industry's first Pleated Resin Bonded filter cartridge technology. CRB filter cartridges are manufactured using long staple polyester fibers, in a specific blend of fiber diameters, and offer the broadest range of micron rated cartridges, while virtually eliminating fiber migration. Utilizing our proprietary resin coating process, we are able to take well defined micron rated depth media and treat the material, converting it from a soft, compressible fabric, to a highly advanced rigid fiber technology.

This unique rigid fiber depth filter cartridge is engineered to take advantage of targeted depth media in an optimized pleated configuration, to maximize solids loading, gel removal capacity, and filter life. CRB cartridges contain more than 3ft² of surface area per 10" segment, as compared to approximately .6ft² of surface area per 10" segment in a typical molded or wound resin bonded cartridge. Increased surface area reduces flow velocity, which increases filter life exponentially due to a reduction in particle penetration, promoting increased dirt holding capacity and filter life.

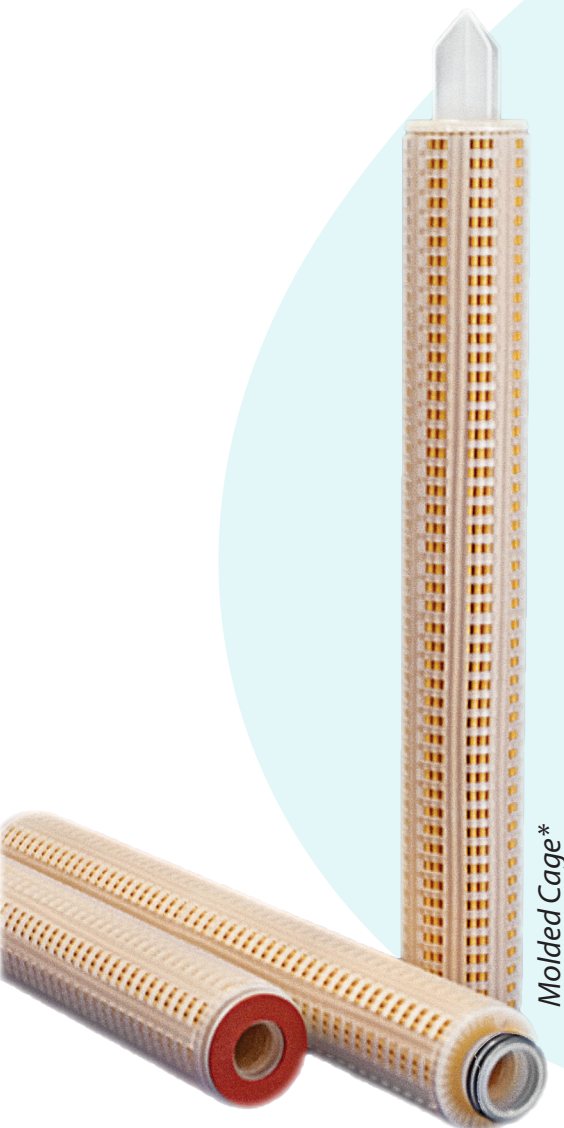
These exceptional pleated cartridges are perfect for both aqueous and non-aqueous liquids. CRB fibers are already fully impregnated, diminishing problematic swelling caused by fluid absorption. This prevents the CRB from prematurely blinding off, making it superior to common untreated filters.

Features and Benefits

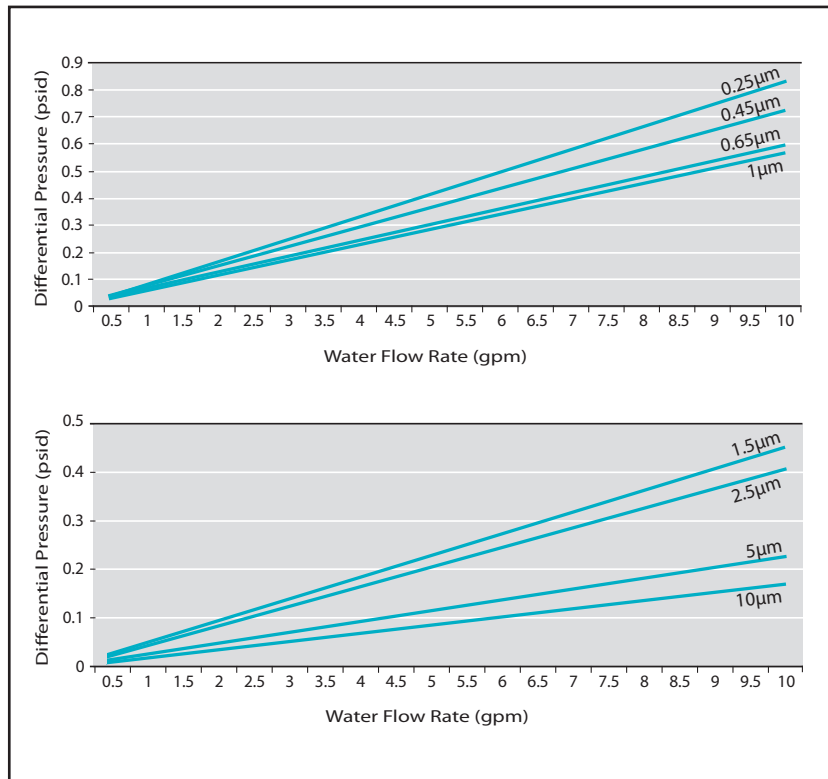
- Virtually no fiber migration, due to the utilization of long polyester heat set fibers
- Higher surface area compared to industry standard resin bonded cartridges, which provides longer filter life, reduced disposal cost and lower cost per gallon to filter.
- Longer filter life also reduces labor time associated with change-outs.
- No epoxies, glues or adhesives
- Extremely high flow rates, due to a substantial increase in surface area
- High integrity one piece construction

Typical Applications

Typical Applications
 Adhesives
 Coatings
 Ink
 Machine Tool Coolants
 Hydraulic fluids
 Oils
 Resins
 Oil Well Completion Fluids
 Heavy Brine Solutions
 Highly Viscous Fluids



CRB Pressure Drop vs. Flow Rate



Materials of Construction

| | |
|-----------------------|---|
| Filter Media: | Phenolic resin impregnated polyester material |
| Hardware: | Polypropylene |
| Core: | Polypropylene |
| Sealing: | Thermal bond |
| End Cap Seals: | Buna N, Fluorocarbon, EPDM, Silicone FEP Encapsulated Fluorocarbon |

Product Specifications

Dimensions

Outside Diameter

Extruded Cage: 2.55" (6.48 cm)

***Molded Cage:** 2.68" (6.81 cm)

Lengths:

9.75" (24.8cm), 10" (25.4cm),
19.5" (49.6cm), 20" (50.8cm),
29.25" (74.4cm), 29.5" (75cm),
30" (76.2cm), 39" (99.4cm)
40" (102cm)

Surface Area:

3ft² per 10"

Performance Specifications:

Nominal Rated Retention:

1, 5, 10, 25, 50, 75, 100, 200

Maximum Forward Differential Pressure

70 psid (5.1 bar) @ 68° F (20° C)

40 psid (2.8 bar) @ 150° F (65° C)

Maximum Operating Temperature

180°F (82°C) continuous duty on standard designed CRB elements. Higher temperature components are available by special request.

Packaging Economy

Bulk packaging in case quantities to reduce material disposal:

| | |
|---------|---------------|
| 10 inch | 24 per carton |
| 20 inch | 12 per carton |
| 30 inch | 12 per carton |
| 40 inch | 9 per carton |

| Cartridge Series ex. CRB | Micron Rating 1.0 | Length -10 | End Cap Configurations C7 | Gasket/O-ring Materials S | Cartridge Grade |
|-----------------------------|-----------------------------|----------------------|--|---------------------------------------|-------------------|
| CRB-Pleat | 5.0 | 9.75 | C1-DOE flat open ends | S - Silicone (standard O-rings) | Blank- Industrial |
| | 10 | 10 | C2-SOE recessed cup, internal 213 O-ring | B - Buna N (standard gaskets) | |
| | 25 | 19.5 | C3-SOE flat closed ends, external 222 O-ring | V - Fluorocarbon | Options |
| | 50 | 20 | C4-SOE flat closed end | E - EPDM | MC - Molded Cage |
| | 75 | 29.25 | C5-SOE recessed cup, external 222 O-ring | T - PTFE | |
| | 100 | 29.5 | C6-SOE flat closed end, external 226 O-ring | TV - FEP Encapsulated Fluorocarbon | |
| | 200 | 30 | C7-SOE fin end, external 226 O-ring | | |
| | | 39 | C8-SOE fin end, external 222 O-ring | | |
| | | 40 | | | |