Continuous Resin-Bonded Depth

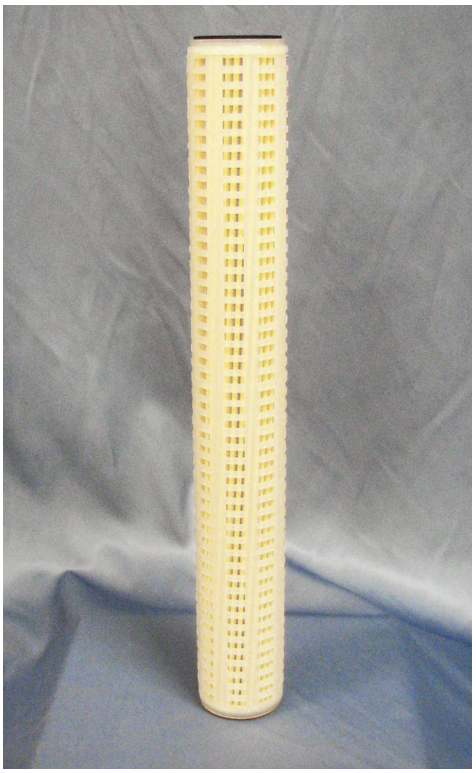
CRB Pleat

- Inks
- Coatings
- Resins
- Oils
- Adhesives
- Machine Tool Coolants
- Oil Well Completion Fluids
- Highly Viscous Fluids
- Heavy Brine Solutions
- Highly Viscous Fluids

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 3.5 ft^2 of surface area per 10" segment, as compared to approximately 0.5 ft^2 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.

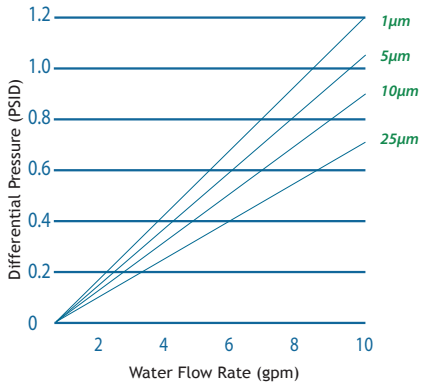


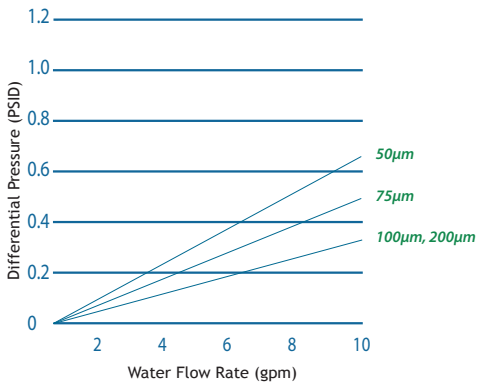
Features & Benefits

CRB Pleat

- Virtually no fiber migration, due to the utilization of long polyester heat set fibers
- Longer filter life also reduces labor time associated with change-outs.
- 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.
- Extremely high flow rates, due to a substantial increase in surface area
- High integrity one piece construction
- No epoxies, glues or adhesives

Performance Characteristics





Specifications

Nominal Rated Retention
1, 5, 10, 25, 50, 75, 100, 200

Maximum Differential Pressure
Forward: 75 psid (5.1 bar) @ 75°F (24°C)
40 psid (2.8 bar) @ 180°F (82°C)

Maximum Operating Temperature
250°F (121°C) Continuous Duty

Toxicity
All components meet all relevant USP XXII Class VI test for biological safety and FDA requirements for contact with food and beverage per 21CFR177.1520

Packaging Economy
Bulk packaging in case quantities to reduce material disposal:

5 inch	48 per carton
10 inch	24 per carton
20 inch	12 per carton
30 inch	12 per carton
40 inch	9 per carton

Materials of Construction

Filter Media
Phenolic Resin-Impregnated Polyester Material

End Caps
Polypropylene
Polyester

Cage/Core
Polypropylene
Polyester

Seals
Buna N
Fluorocarbon
EPDM
Silicone
FEP Encapsulated Fluorocarbon
FEP Encapsulated Silicone
PTFE Foam
PTFE Hard

Sealing
Thermal Bond

Dimensions

CRB

Outside Diameter: Extruded Cage
2.55" (6.48cm)

Outside Diameter: Molded Cage
2.68" (6.81cm)

Approx. Surface Area
3 ft^2 per 10"

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)

Ordering Information

CRB-Pleat **CRB** → □ – □ □ □ □ □

Micron Ratings
1
5
10
25
50
75
100
200

Code	Lengths
9.75	9.75"
10	10"
19.5	19.5"
20	20"
29.25	29.25"
29.5	29.5"
30	30"
39	39"
40	40"

Code	End Cap Configuration
C1	Double Open Ends
C2	213/Recessed Cup
C3	Flat/222
C4	Single Open End/Flat
C5	Recessed Cup/222
C6	Flat/226
C7	Fin/226
C8	Fin/222

Code	Gasket/O-ring Material
S	Silicone
B	Buna N
V	Fluorocarbon
E	EPDM
TF	PTFE Foam
TH	PTFE Hard
TV	Encapsulated Fluoro.
TS	Encapsulated Silicone

Code	Options
MC	Molded Cage
APH	All Polyester Hardware