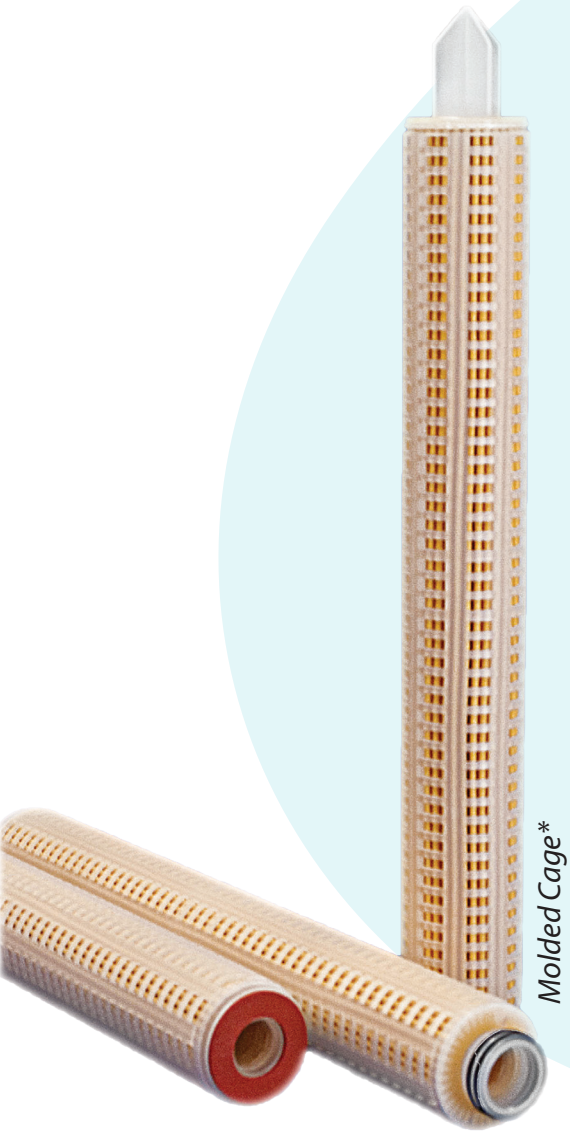
CRB Pleat

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 $3ft^2$ of surface area per 10" segment, as compared to approximately $.6ft^2$ 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.



*Molded Cage**

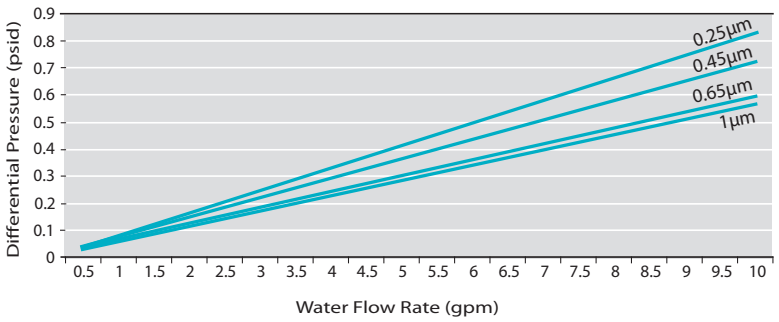
Features and Benefits

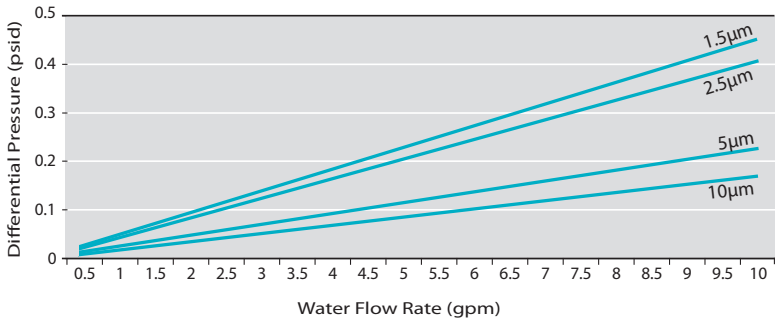
- Virtually no fiber migration, due to the utilization of long polyester heat set fibers
- Higher surface area compared to industry standard resin bonded cartridges, which provides longer filter life, reduced disposal cost and lower cost per gallon to filter.
- Longer filter life also reduces labor time 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	Micron Rating	Length	End Cap Configurations	Gasket/O-ring Materials	Cartridge Grade
ex. **CRB**	**1.0**	**-10**	**C7**	**S**	
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			