Filter Bag Catalog

The STRAINRITE Companies
World Class Filtration

Worldwide Supplier of Liquid Filtration Products
Table of Contents

Click a link below to view the selected page

The "Classic" Felt filter bags
Sure Weld Filter Bags Featuring the proprietary "tri-seal" poly flange
X-tra Life Filter Bags POXL & PEXL
EVP Enhanced Vertical Pleat
The "RESINATOR" Resin Bonded Filter Bags
Monofilament Mesh Filter Bags
Multifilament Mesh Filter Bags
Madd-Maxx XL Hybrid Filter Element
Madd-Maxx MF Hybrid Filter Element
Madd-Maxx GF Hybrid Filter Element
Visc-Maxx Hybrid Filter Element
Mag Bag Multi-magnet design for unsurpassed metal removal
Carbon & Chemical Ready
Absorb-rite
Oil Log
The Strainrite Companies offer the widest range of needle punch felt filters in the market. We have formed long-term strategic partnerships with North America’s largest and most respected needle punch manufacturers. All of our fabrics are manufactured on state-of-the-art high speed needling equipment that continuously monitor key specifications in real time resulting in the most uniform and consistent fabric across the entire web in our industry. By combining our technically advanced converting process with the industry’s most reliable media, The Strainrite Companies offers a felt filter bag that leads in product quality, reliability and repeatability.

**Features & Benefits**
- Advantages over string wound & melt blown cartridges
- Impurities are contained inside the filter bag
- Lower total costs due to higher solids loading capabilities
- Reduced labor costs from fewer change-outs
- Fewer spent filters resulting in reduced disposal costs
- Reduced product loss due to lower hold up volumes
- Easier & quicker to change one filter bag versus several Ctg

**Applications**
- General Chemical
- Produced Water from Gas Drilling
- Process Water
- Food and Beverage
- Paints and Coatings
The **Sure-Weld Felt Filter Bag**, with our proprietary “TRI-SEAL” poly flange provides a distinct advantage compared to conventional sewn filter bag with metal snap rings or industry standard poly flanges. Using state-of-the-art welding technology specifically designed to bond needle punched textile fabrics, we are able to offer the strongest most reliable welded filter bags on the market. Our **Sure-Weld** filters come with the security of an overlap side seam, which eliminates the “bump” that occurs with conventional sewn snap ring filters. By welding to a “TRI-SEAL” poly flange our fully welded filter bags offer unparalleled seal security, which delivers superior filtrate consistancy.

**Features and Benefits**

- Higher efficiencies due to tighter seal tolerances
- No thread, which eliminates potential silicone contamination from this likely source
- Puncture free overlap side seams provide added strength and improves effluent consistancy

**Applications**

- Paints and Coatings
- General Chemical
- Process water
- Food and Beverage
- Ink Industry
X-TRA LIFE filter bags utilize state-of-the-art needling technology providing outstanding filtration performance in a variety of applications. Our polyester and polypropylene X-TRA Life materials utilize a proprietary fiber blend configuration to create a media that is heavier, thicker and stronger than standard felted media. This formulation delivers enhanced efficiencies, without increasing initial differential pressure. Both the POXL and PEXL bags are ideal for removing gels, irregular shaped particles in liquid streams with a wide particle size distribution. X-TRA Life filter bags are available in designs that comply with both FDA and EC requirements for Food and Beverage contact.

Features & Benefits

- Field tests are verifying that our POXL and PEXL filters last an average of 2 to 4 times longer than conventional bags
- Reduced operating costs due to fewer bag changeouts
- Reduced labor costs associated with fewer bag changes
- Reduced disposal cost
- Increased productivity due to staying online longer between changeouts
- Thermally treated fabric finish which virtually eliminates the possibility of fiber migration
- Fully welded construction utilizing our Sure-Weld technology is standard on POXL bags

Applications

General Chemical
Produced water from Gas drilling
Process Water
Food and Beverage
Paints and Coatings
The Strainrite Companies are proud to announce the development of a substantially enhanced version of our time tested, and widely acclaimed, "Valu-Life" Series of patented pleated filter bags! Even more value added!

Our EVP [ Enhanced Vertical Pleat ] filters are the product of years of successful, application specific filtration in a variety of industries, using the Model 8T as the genesis of the "Valu-Life" Series. By working closely with our distributor partners, and their valued customers, we have learned how to amplify the critical features that make the "EVP" the greatest value in the Filtration Marketplace today. With proprietary advances in pleat profile and rigidity, graded density materials of construction, and utilized surface area, no filter element provides equal filtration performance, life, and loading capacity at a similar price. Experience for yourself how Strainrite’s proprietary “Depth by Design” Filters will change your view of Filtration from that of an expense, to that of the means to improved process and product, as well as a better bottom line!

**Benefits**

- Provides > 50% increased effective area
- Dramatically increases life
- Real labor cost-savings due to fewer filter change-outs
- Reduced employee exposure and product loss
- Reduced filter element disposal costs
- Increased productivity due to longer processing/run times
- No equipment modification required, fits industry standard bag housings
- Carbon steel and stainless steel rings and plastic flanges

**Applications**

- Glycols
- Adhesives
- Inks
- Amine
- Paints/Coatings
- Beverages
- Plating Solutions
- Coolants
- Resins
- Cutting Fluids
- Petro-Chemicals
- Cooling Towers
- Down Well Injection
- Fine Chemicals
Once again, The Strainrite Companies delivers true filtration innovation by combining only the positive qualities of resin-bonded cartridges with the proven advantages of a Strainrite premium quality filter bag. “Resinator” users gain the non-compressible media depth of a resin filter, along with the greatly enhanced solids loading capacity and cost saving features of a Strainrite gradient-density filter bag. This product excels in a wide variety of high viscosity fluid filtration applications where authoritative removal of problematic gels are required.

These “hard body” filter bags represent a significant advancement in the utilization of rigid fiber technology and illustrate the leadership role The Strainrite Companies plays in supplying vision and technical leadership when designing and manufacturing liquid filter bags. This graduated double layer product design combines the depth loading efficiency of resin bonded cartridges with the greater dirt loading capacity of a filter bag creating the most cost effective method for filtering both low and high viscosity fluids.

**Features & Benefits**

- Lengthy heat set fibers eliminates migration
- Increased area means longer filter life & reduced disposal cost
- Longer filter life reduces labor time associated with change-outs
- Higher productivity due to longer run times
- Gradient density prevents premature blinding
- Resin bonded fibers maintain porosity in high viscosity

**Applications**

- Adhesives
- Paints and Coatings
- Inks
- Petroleum Products
- Resins
- Produced Fluids
- Hydraulic Fluids
Monofilament Mesh Filter Bags are manufactured in a wide range of micron ratings using a single filament weave. Single filament woven media provides two distinct advantages over multifilament media, excellent fabric strength and perfectly uniformed openings. Monofilament mesh is available in 1 through 800 microns as standard and larger for special orders. For applications where clients require no fiber migration at a high level of efficiency, monofilament material is a perfect fit.

**Features & Benefits**

- Nylon monofilament is FDA and EU compliant
- Reliable performance due to a uniform hole configuration
- Non-fiber releasing material for high purity applications
- Extremely wide chemical compatibility
- Very high tensile strength
- Impurities are contained inside the element.
- Minimal product loss due to quicker drain off of filtered product
Multifilament Mesh Filter Bags are manufactured in a narrow range of micron ratings using a multi-strand weave. Multi-strand woven media is very cost effective for those applications where nominal filtration is required. The media openings are nominally spaced apart and require the use of a support basket to optimize filter performance. This media is excellent when applications require fiber free products from 100 micron up to 800 micron nominal efficiency range.

Features & Benefits
- Available in a highly chemical resistant Nylon material
- Very cost effective
- Non-fiber releasing material
- Excellent nominal efficiency performance when utilized with a support basket
- Superior to cartridge filtration due to inside-out flow dynamic, all impurities are contained inside the filter bag
- Reduced product loss due to virtually no media hold up volume

Applications
- Paints and Coatings
- General Chemical
- Process water
- Food and Beverage
- Ink Industry
MADD-MAXX XL elements feature the proven benefits of small fiber diameter and a high void area, creating the perfect Depth Filter. Available in either Polypropylene or Polyester. These elements offer 5 to 10 times more surface area, depending upon chosen configuration and materials of construction. Coupled with your choice of a single or double o-ring positive seal, resulting in the most reliable, and versatile filters available.

**Features & Benefits**
- Increased surface area offers higher flow capacity in existing applications
- Lower initial differential pressure, reducing filtration costs, due to longer element life
- Single and double o-ring sealing flange available for increased efficiency
- Thermally bonded end caps eliminating bypass
- Dual Density with built-in pre-filter, preventing premature binding of final filter media
- Internal polymeric pleat separator to assure full utilization of the entire pleat surface area

**Materials of Construction**

<table>
<thead>
<tr>
<th>Filter Media:</th>
<th>SP - Polypropylene Felt&lt;br&gt;AP - Polyester Felt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hardware:</td>
<td>Polypropylene&lt;br&gt;C - Polypropylene Plastic&lt;br&gt;B - Rigid resin Bonded Felt</td>
</tr>
<tr>
<td>Cage:</td>
<td></td>
</tr>
<tr>
<td>Sealing:</td>
<td>Thermal Bond</td>
</tr>
<tr>
<td>O-rings:</td>
<td>Buna N, Fluorocarbon, EPDM, FEP Encapsulated Fluorocarbon, Silicone</td>
</tr>
</tbody>
</table>

**Dimensions**

<table>
<thead>
<tr>
<th>Outside Dia:</th>
<th>7&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lengths:</td>
<td>P1 - 14&quot;&lt;br&gt;P2 - 26&quot;&lt;br&gt;P2L - 30&quot;</td>
</tr>
<tr>
<td>Surface Area:</td>
<td>P1 - 12 sq. ft.&lt;br&gt;P2 - 23 sq. ft&lt;br&gt;P2L - 26 sq. ft.</td>
</tr>
</tbody>
</table>
MADD-MAXX MF [Hybrid Filter Technology] filters are engineered for critical high purity applications by optimizing throughput while maintaining absolute rated performance that is both predictable and repeatable. Our superior filter media is constructed on the latest Continuous Microfiber blowing equipment, which accurately controls fiber diameter and web design. This state-of-the-art equipment utilizes online monitoring equipment, delivering the industry’s most uniform and consistent media, resulting in unparalleled product consistency.

By combining high performance media in a MADD-MAXX inside-out flow configuration, we have created the ultimate filter. This element combines the advantages of typical bag filtration, ease of use, and exceptional dirt holding capacity with the high efficiency and performance characteristics of cartridge filtration. The inside out flow design ensures that unwanted contaminates stay inside the element during change out, unlike typical cartridge filtration, virtually eliminating the possibility of downstream contamination. Our 100% polypropylene construction provides an excellent range of chemical compatibility for your most demanding applications. All materials of construction meet or exceed the requirements of CFR 21 for Food and Beverage contact.

MADD-MAXX MF filter elements increase filtration efficiency of any existing bag filter vessel vs. conventional filter bags. However, where true absolute filtration is required, it is highly recommended that these filters be used in Strainrite’s SRHD or SRX SERIES [Zero Bypass] filter housings. The revolutionary vessel to element sealing properties designed into these hermetically sealed housings have produced absolute efficiencies verified by independent third-party testing facilities.

MAXX-imized throughput,

MAXX-imized filtration efficiency,

MINI-mized cost per gallon filtered

Applications
Edible Oils
Food and Beverage
DI/RO Pre Filtration
Reagent Chemicals
Amine and Glycol Fluids
Water
Waste Water

The STRAINRITE Companies
World Class Filtration
MADD-MAXX GF filters are engineered for critical high purity applications, optimizing throughput while maintaining an absolute rated performance that is consistent and reliable. Our Microglass Filter Elements feature a media structure with high surface area and increased void volume, as well as optimized pore size geometry. Precision blowing of fine denier fibers results in a highly uniform matrix that optimizes element flow rate and service life. This advanced fine fiber technology outperforms all competing Microfiber technologies.

MADD-MAXX GF filter elements increase filtration efficiency of any existing bag filter vessel versus conventional filter bags. However, where true absolute filtration is required, it is highly recommended that these filters be used in Strainrite’s SRHD or SRX SERIES [Zero Bypass] filter housings. The revolutionary vessel to element sealing properties designed into these hermetically sealed housings have produced absolute efficiencies verified by independent third-party testing facilities.

MADD-MAXX GF cartridges are the preferred choice for filtering beverages such as Beer and Wine because they do not remove flavor enhancing proteins. We utilize acrylic binders that meet the requirements of CFR 21 for Food and Beverage contact. Many competing elements utilize an epoxy binder, providing the MADD-MAXX with a greater range of chemical compatibility in a wider range of applications.

MAXX-imize throughput,
MAXX-imized filtration efficiency,
MINI-mized cost per gallon filtered

Applications
Edible Oils
Food and Beverage Industry
DI/RO Pre Filtration
Reagent Grade Chemicals
Amine and Glycol Fluids
Water and Waste Water

The STRAINRITE Companies
World Class Filtration
Yet again, The Strainrite Companies delivers true filtration innovation! Combining the advantages of Resin Bonded Cartridges, non-compressible media, and enhanced depth filtration, with the proven inside-out flow advantages of bag filtration, makes the VISC-MAXX the optimum alternative to cartridge filtration. The VISC-MAXX utilizes a phenolic treated polyester large fiber material in a gradient density pleat design to create the perfect Resin Bonded filter. Our unique patent protected textile provides unsurpassed gel and particle removal due to maximized surface area and the true non-compressible depth design.

A chronic complaint of conventional Resin Bonded Cartridge users is post-filter fiber migration, which results in compromised product and a need to re-filter. Our proprietary textile eliminates these problems entirely.

**Features & Benefits**

- Lengthy heat set fibers eliminates migration
- Increased area means longer filter life & reduced disposal cost
- Longer filter life reduces labor time associated with change-outs
- Higher productivity due to longer run times
- Gradient density prevents premature blinding
- Thermally bonded end caps eliminate bypass
- #1 size element replaces up to (40) 10” resin bonded cartridges

**MAXX-imized throughput,**

**MAXX-imized filtration efficiency,**

**MINI-mized cost per gallon filtered**

**Applications**

Glycols
Adhesives
Inks
Amine
Paints/Coatings
Beverages
Plating Solutions
Coolants
Resins
Cutting Fluids
Petro-Chemicals
Cooling Towers
Down Well Injection
Fine Chemicals

The STRAINRITE Companies

World Class Filtration
The MAG BAG incorporates a multi-purpose design that attracts microscopic ferrous impurities along the entire length of the 12” or 24” magnetic bars. Filter life is optimized, as the ferrous particles are largely attracted to the magnet contaminate pockets, as opposed to the exit wall of the filter.

Lacking Strainrites proprietary multi-magnet configuration, other filter bags do not provide the same extensive sphere of influence and struggle to maintain high production flow rates.

Independent field studies demonstrate ferrous containment gain greater than two times over conventional filters.

The MAG BAG comes in a range of sizes and materials for virtually any liquid-based application. Coated magnets are available that are rated and finished for your specific application.

Applications
- Automotive Pre-coat
- Plating
- Parts Washers
- Pre-cleaning Process Water
- Cutting, Grinding and Boring
- Machining Coolants and Lubricants

Features & Benefits
- Standard holds three magnets
- Minimizes downtime
- Keeps spray nozzles clean
- Unsurpassed metal removal
- Maximizes production capacity
- Extends life of cutting tools
- Traps 200% more ferrous fines
- Lifting loop for easy removal
This Strainrite filtration innovation is designed to separate and remove undesirable substances from liquid streams. This proprietary filter bag features an impervious inner liner that does not allow liquids to escape through the side walls. This maximizes contact time with the media and enhances effluent consistancy. Commonly used medias include: carbon, ion exchange resins, clays, alumina as well as other granular chemicals. A zippered top disc allows for easy insertion of your media. The clean effluent passes through the bottom and exits the bag.

**Features & Benefits**
- Zippered top discs make media loading easy
- Available in either polypropylene or chemically resistant nylon plastic
- Non-fiber releasing material
- Excellent nominal efficiency performance when utilized with a support basket
- Hygienically superior to cartridge filtration due to in side-out flow dynamic, all impurities are contained inside the filter bag
- Reduced product loss due to virtually no media hold up volume

**Applications**
- Plating
- Parts Cleaning
- Machine Cutting Fluids
- Produced Water
- Waste Water
- Groundwater Remediation

The Absorb-Rite® filter bag from The Strainrite Companies substantially reduces oil and grease from aqueous based liquids. The Absorb-Rite® bag offers a unique two-in-one design that forces the liquid through the entire length of the filter, therefore uniformly utilizing all the absorbant media. Typically, this unique filter absorbs 10-15 times its weight in oil. The Absorb-Rite® offers in excess of 50% more absorbency than competing brands.

**Features & Benefits**
- Unique three layer construction results in maximum exposure time at minimum flow rate
- The top disc pre-filter material removes dirt and other particulate material prior to the absorption of hydrocarbons
- Designs available to remove particles in the 1-100 micron range
- Absorb-Rite® has higher hydrocarbon removal capacity than other filter bags on the market
- Has higher capacity than most other bags on the market
- Standard bags fit #1 and #2 sized filter vessels (fit competitor housings as well)
- Designed to minimize contamination during changeover

**Applications**
- Electroplating Paints
- Liquid Fertilizers
- Electroplating
- Pickling Liquids
- Cutting Oil Removal
- Waste Water Treatment
Offering superior technical sales and live customer support.