AJR FILTRATION

Manufacturing and Development of Filtration Solutions

LIQUID & DUST FILTERS

Liquid Bag Filters

Available in all industry-standard and custom sizes, AJR standard liquid filter bags are an economical solution for removal of particulate from most process filter applications.

AJR Filtration offers the industry's fastest shipments on standard products, to get you what you need quickly.

Standard Bags

Nominal Efficiencies

Standard Features

- Handles standard on all bags
- Welded or sewn construction options
- Available FDA CFR-21 compliance
- Seal styles:
  - Sealing rings – polypropylene, galvanized, stainless steel, or titanium
  - Plastic flanges – P, F, OSS, RP, Santoprene, X01
  - Plain top or drawstring type

Standard Felt Liquid Filter Bags

- Micron ratings from 1 to 200
- Polyester, polypropylene, aramid, PTFE, or POEX extended life polypropylene felt
- Single- or double-layer polyester for extended life

Standard Mesh Liquid Filter Bags

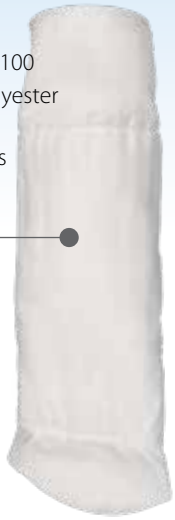
- Micron ratings from 1 to 1500
- Monofilament bags of nylon or polypropylene for strength
- Multifilament bags of nylon or polyester, low-cost, disposable

All polypropylene and polyester materials meet FDA regulations for food contact under CFR21, section 177.1520

Custom and Specialty Liquid Bags

Extended Surface Pleat Liquid Bag Filter

- Micron ratings from 1 to 100
- Two layers of pleated polyester or polypropylene felt
- High flow and high solids loading capacity



Unique internal pleats consisting of two layers of pleated felt

DF Welded Filter Bag Sizes #1 and #2

- Micron ratings from 1 to 100
- All welded–no loose fibers
- Duo flow style replaces closed R-style top

NMO Welded Filter Sizes #3 and #4

- Micron ratings from 1 to 800
- Triple-layer NMO construction
- Welded nylon monofilament-no loose fibers
- Polypropylene bottom cap

BOSA Size #2 Absolute High Efficiency

- Micron ratings from 3 to 25
- 98% absolute efficiencies
- Thermally bonded graded layer construction
- High efficiency microfiber

1" SBF and 2" FMC Compact Filters

- Micron ratings from 1 to 400
- Two-layer NMO construction
- Welded nylon monofilament-no loose fibers
- Polypropylene bottom cap
- SBF used in tiny bag vessels
- FMC used for filling lines

High Efficiency Bags

Available with Absolute Efficiencies 95% to 99%

Standard Features

- Polypropylene has excellent oil absorbing properties
- Handles standard on all bags
- Polyester or polypropylene
- Multi-layer technology-true graded density
- Optional needle felt layer prefilter for longer life

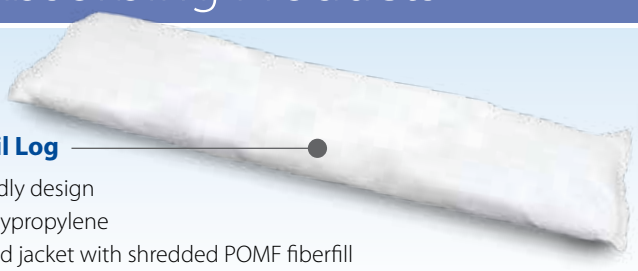
500 Series High-Performance Liquid Filter Bags Size #2

- 99% absolute efficiency
- Micron ratings from 0.5 to 32
- Metal seal ring or plastic flange
- Excellent oil absorbing capabilities
- Varying multi-layers of spun bond, microfiber, and felt media, customized to the micron rating

POMF & PEMF High Efficiency Microfiber Liquid Filter Bags

- 95% absolute efficiency
- Micron ratings from 0.5 to 90
- All industry-standard and custom sizes
- 5-7 layers of spun bond, felt, and microfiber media

Oil Absorbing Products



Size #2 Oil Log

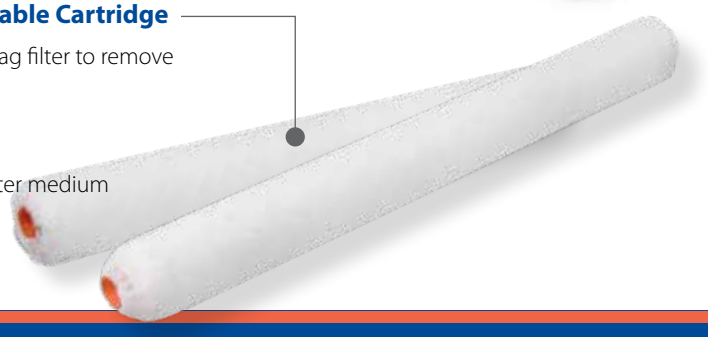
- Eco-friendly design
- 100% polypropylene
- Spunbond jacket with shredded POMF fiberfill
- Fits Size #2 filter bags

XOAM Oil Absorbing Bag Sizes #1 and #2

- Micron ratings from 1 to 150
- 95%+ absolute efficiency
- Multi-layer spun bond and felt/ microfiber designed to the micron rating
- Excellent oil absorbing polypropylene materials

ARC-28 Oil Absorbing Replaceable Cartridge

- Place this element inside a Size 2 bag filter to remove free oil from aqueous fluid streams
- 28-1/4" nominal length
- 2-5/8" nominal diameter
- Polypropylene melt blown wrap filter medium
- Polypropylene core
- Polyethylene outer netting



Liquid Cartridge Filters **Pleated**

AJR offers a broad variety of liquid cartridge filters to protect processes, people and the environment: Choose from pleated, string-wound, melt-blown and carbon wrap styles, all manufactured with silicone-free construction.

Nominal and Absolute Efficiency

NDC Nominal Depth Pleated Liquid Cartridge

- Micron ratings from 1 to 200
- Four styles of top caps
- Fits most Size #1 and #2 strainer baskets
- Two layers of polyester or polypropylene felt
- Polypropylene bottom cap
- Buna o-ring standard

NDC and 600 Series DP pleated cartridges also available with proprietary X01 sealing cap to fit X100 vessels

600 Series Deep Pleated Liquid Cartridge

- 99% absolute efficiency
- Micron ratings from 1 to 40
- Four styles of top caps
- Fits most Size #1 and #2 strainer baskets
- PE or PO spun bond and high efficiency media layers
- Polypropylene bottom cap
- Buna o-ring standard

2.5" PPO & 2.75" PPOW Pleated Liquid Cartridges

- Absolute micron ratings from 0.2 to 40
- 99.98% absolute efficiency
- Standard lengths from 10" to 40", custom lengths available
- All industry-standard end caps available
- No adhesive–thermally bonded design
- Available FDA CFR 21
- Outer polypropylene netting or rigid poly-propylene cage
- Can be individually wrapped for cleanliness

String Wound

With your choice of cores, filter media, end fittings, and materials

String wound filter cartridges are an economical and versatile solution for a wide variety of applications and can be retrofitted to most filter housings. Our filters offer long on-stream life with progressive depth filtration and high sediment holding capacity. All string wound filters have an internal core for strength.

DW Series

An economical solution for removal of solid particles from liquids and compressed gasses, from prefiltration to polishing

- Nominal micron ratings from 0.5 to 200
- Filter media options include polypropylene, cotton, polyester, fiberglass, nylon, PPS, aramid, and rayon
- Diameters (OD) from 2" to 4-1/2"
- Lengths from 3" to 72"; custom lengths available
- Core material options include polypropylene, tinned steel, 304 stainless steel, or 316 stainless steel

Also Available: **DW Series-61**

- Constructed with polypropylene string and core which complies with FDA CFR 177.1520 for use in contact with food.
- Certified to comply with NSF/ANSI 61 Standard

EEF (Extremely Efficient Filters) Series

EEF string wound filters employ a 3-ply SMS (Spunbonded-Meltblown-Spunbonded) nonwoven layer downstream of the wound prefilter section. Offered in 0.2 micron and 0.5 micron nominal efficiencies, 3" minimum length.

- Efficient removal of particulates under 1 micron
- Wide range of prefilter materials and cores for process compatibility
- Variety of sizes and configurations to ensure proper sizing, fit, and sealing
- High sediment-holding capacity for longer time between filter changes
- Continuous lengths up to 72"

HC (High Capacity) Series

All the benefits and options of the DW Series, with the added benefit of two or more winding patterns to provide longer filter life with challenging fluids

- More open prefiltration section serves to protect the downstream section and remove larger particles
- Tighter final filter section provides removal of smaller particles
- Available NSF/ANSI 61 certified

Liquid Cartridge Filters Melt Blown / Carbon

Melt Blown Filters

We offer a variety of melt blown filter cartridges, made of 100% FDA approved polypropylene with a gradient density design to trap particles throughout the entire cross section of the filter. Features include a variety of collection efficiencies with micron ratings from 0.5 to 200. Available in 9-3/4" to 50" lengths (2-1/2" diameter) and 9-3/4" lengths to 30" lengths (4-1/2" diameter). Custom lengths are available.

End Cap Options

222 and 226 style with plug, disc, or fin, extended core, end caps, spring, or plug end available for most string wound and melt blown filters

MB and MC Series

- Economy cartridge filters
- Choice of lengths and end caps
- 2-1/2" and 4-1/2" diameters
- MB is coreless
- MC has molded polypropylene core for added strength

DMB and DMC Series

- Made in USA with choice of standard or custom graded density
- 2-1/2" and 4-1/2" diameters
- Available with NSF/ANSI 61 certification for potable water applications
- DMB is coreless
- DMC has molded polypropylene core for added strength

Also Available: **DWMC Fusion™ Filter Series**

- Available with NSF/ANSI 61 certification
- For longer life, this unique filter combines an inner rigid polypropylene core, polypropylene melt blown media on the interior, and precision string wound prefilter media on the outer surface.

Melt blown portion is extended for illustration purposes only.

Carbon Filters

Widely used in industrial processes, carbon filters are the most efficient method of removing odor, chlorine, volatile organic compounds, tastes, and other chemical contaminants from fluids.

DWC Series Carbon Filter Cartridges

- Available ODs: 2-1/2", 2-3/4", and 4-1/2"
- Polypropylene core and polyethylene outer netting
- Vinyl end caps standard: 222 and 226 flat and fin ends and O-ring optional end treatments
- Improves taste and odor of water
- 5-micron nominal rating

DWCC Series Activated charcoal carbon impregnated cellulose filter with polyester backing

- Common for city water

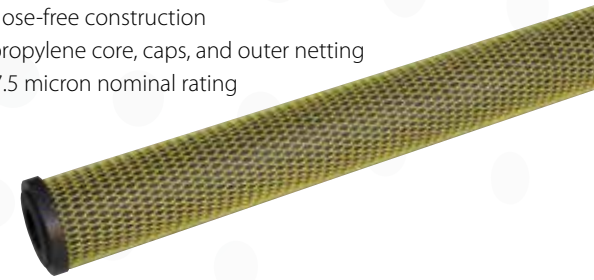
DWCF Series Activated coconut shell carbon impregnated polyester medium

- Common for well water, corrosive liquids and plating solutions

CFM Series Carbon Cartridge Filters

Designed for electroplating and special chemical removal applications for maximum flow and lower pressure drop than carbon block.

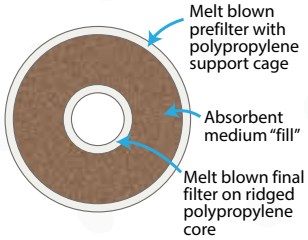
- Bonded activated carbon/melt blown media with spunbonded inner and outer layers
- 2-1/2" OD
- Cellulose-free construction
- Polypropylene core, caps, and outer netting
- 5 to 7.5 micron nominal rating



RFC Series Radial Flow Cartridges

In-house melt-blown technology packed with an absorbent medium to target specific contaminants

- 2-1/2" and 4-1/2" diameter, 10" or 20" length
- Double Open End Filter (DOE)
- KDF media targets iron and other contaminants
- Carbon media options for chlorine or organics



CN04 and **CN04CF** Series Carbon/Sediment Filters

Dual media carbon cartridges with outer string wound wrap prefiltration

CN04 Inner media of carbon-impregnated cellulose

CN04CF (cellulose-free) Inner media of coconut shell carbon-impregnated polyester

- 5-micron nominal standard – available micron ratings from 1 to 50
- Diameters from 2-1/2" to 4-1/2"
- Lengths from 5" to 40"
- A variety of filter medias and end cap styles

Dust Filters

OEM quality for less

AJR manufactures OEM and replacement bags, pleated bags, and dust cartridges for most types of fabric filter dust collectors used in industry, in our dedicated filtration headquarters in West Chicago, IL. Our applications experts can assist you in choosing which style of filter is best suited for your application. Challenging application? Our experts will recommend and source the right filter media for your application.

Filter Bags

Most filter bag orders manufactured from in-stock media ship within 5 to 7 days

AJR filter bags utilize a wide variety of materials available on the market today, including aramid, polyester, acrylic, polypropylene, PPS, and polyimide (P84). Specialized construction and finish options include PTFE membrane, duo density, microfiber, flame retardant, and more.

- OEM-quality pulse-jet, shaker, and reverse-air dust collector bags
- Wide variety of filter media types and finishes, many in stock
- Tubular and envelope filter styles
- Custom bags are our specialty

AJR-PLEAT Pleated Bags and Dust Cartridges

AJR-PLEAT

AJR manufactures quality dust cartridges and pleated bags to replace OEM filters in common industry baghouses and horizontal or vertical mount cartridge dust collectors. AJR-Pleat dust filters feature rugged construction and include standard spiral helix cores for strength and durability.

Pleated Bags

- Molded or metal end caps fit most common industry baghouse dust collectors
- Durable spun bonded polyester media for high collection efficiency and excellent dust release properties
- Configurable pleat counts and filter lengths
- Low operating pressure drop and longer life than traditional bags
- Top and bottom-load designs
- Wide shallow pleats manage aggressive dust collection applications and high loadings
- Core options: polypropylene, stainless steel, perforated or rolled expanded

Dust Cartridges

- All cartridge filters meet or exceed OEM requirements and industry standards
- Replacements for Donaldson® Torit®, Camfil Farr®, American Air Filter®, Dust Hog®, and more, including oval filters.
- 80/20, spun bonded polyester, and nanofiber, with or without flame retardant treatment
- MERV ratings from 11 to 16
- Wide variety of end caps, flange tops, and available oval cartridges
- Outer mesh liners or bands

Integrity and trust has been the bedrock for building long-term relationships with our customers

But to truly become a leader, we took a look at all aspects of our company, assuring we deliver at every stage. Our experienced staff will respond to all requests same or next day.

All this, and more, for no extra cost:

- Broken case quantities
- Standard samples
- Stocking programs
- Private labeling
- Custom part numbers
- Nationwide distributor network
- Extensive inventory of raw materials and components
- Production efficiencies to keep costs low

Filtration headquarters in West Chicago, Illinois

Inaugurated in 2020, our headquarters supports manufacturing operations for all AJR Filtration products under one roof. The facility features 150,000 sq. ft. of operating space with over 250 skilled production employees dedicated to high-quality filter manufacturing.

AJR FILTRATION

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AJR Filtration, Inc. is part of the AJR Group companies, proudly manufacturing in the USA since 1997