



## AF SERIES

### PERCHLORATE REMOVAL

#### KEY FEATURES

- **RESINTECH® SIR-110-HP GIVES HIGHEST PERCHLORATE SELECTIVITY**
- **MEDIA MEETS NSF/ANSI 61 CERTIFICATION**
- **SUPERIOR PHYSICAL STABILITY AND LOWER PRESSURE DROP**

#### PERCHLORATE REMOVAL CARTRIDGES

Aries FilterWorks cartridge uses ResinTech® SIR-110-HP, a strong base anion resin. It exhibits an unusually high preference for perchlorate and a low affinity for multivalent ions. This media is supplied in chloride form as a moist, durable, uniform spherical bead.

ResinTech® SIR-110-HP essentially eliminates all monovalent “dumping” making it useful in nitrate removal applications. The perchlorate operating capacity is virtually unaffected by the presence of sulfates.

#### APPLICATIONS

##### COMMERCIAL USE -

Perchlorates are the salts derived from perchloric acid ( $\text{HClO}_4$ ). They occur both naturally and as a by-product of manufacturing. Improper disposal of perchlorate-containing compounds are increasingly being found in groundwater and local drinking water. Where indicated a specific filter, that targets perchlorate removal should be considered.

##### RESIDENTIAL USE -

Low levels of perchlorate have been detected in both drinking water and groundwater in 35 states in the US according to the Environmental Protection Agency. If elevated levels are detected, a recognized laboratory should do testing for perchlorates, and use of a perchlorate filter should be considered. Currently, there are no enforceable perchlorate safety standards. The EPA's protective health level for perchlorate in drinking water is a dose estimate of less than 1 ppb.

#### ABOUT PERCHLORATES

Perchlorate salts, such as ammonium perchlorate and potassium perchlorate, are man-made compounds used as combustion accelerants, primarily in solid-fueled rockets and missiles. It can also be found in some munitions, fireworks, and road flares and is even thought to exist naturally in some nitrate-based fertilizer products.

Manufacturing waste and improper disposal of perchlorate containing compounds are increasingly being found in groundwater and local drinking water wells. Perchlorate is one of a newly recognized group of toxins called endocrine disrupters, which can alter hormonal levels, by interfering with iodide uptake in the thyroid gland. The US Environmental Protection Agency, federal agencies and local governments are currently assessing the potential human health risks posed by perchlorate exposure.

#### FEATURES & BENEFITS

- **RESINTECH® SIR-100-HP MEDIA CERTIFIED BY WATER QUALITY ASSOCIATION (WQA)**

AF Series perchlorate selective resin is WQA Gold Seal Certified and meets NSF/ANSI 61 guidelines and cartridge. ResinTech® SIR-110-HP has the highest operating capacity of any perchlorate selective resin. ResinTech® SIR-110-HP is uniform particle size, low-pressure drop and has superior physical stability

- **FITS STANDARD RESIDENTIAL AND INDUSTRIAL SIZE HOUSING**

AF Series cartridges are double-open end cartridges that fit standard residential and industrial housings

- **OVERSIZED CARTRIDGE FOR MAXIMUM MEDIA FILL**

AF Series cartridges have up to 50% higher capacity and extend cartridge life, due to the use of larger cartridges

- **QUALITY PRODUCED AND MADE IN THE USA**

To ensure consistent quality and peace of mind for the consumer all drinking water media are WQA Gold Seal or NSF certified. Cartridges are produced by Aries FilterWorks, a division of ResinTech®. Strict quality control over all aspects of production allows complete traceability of every cartridge



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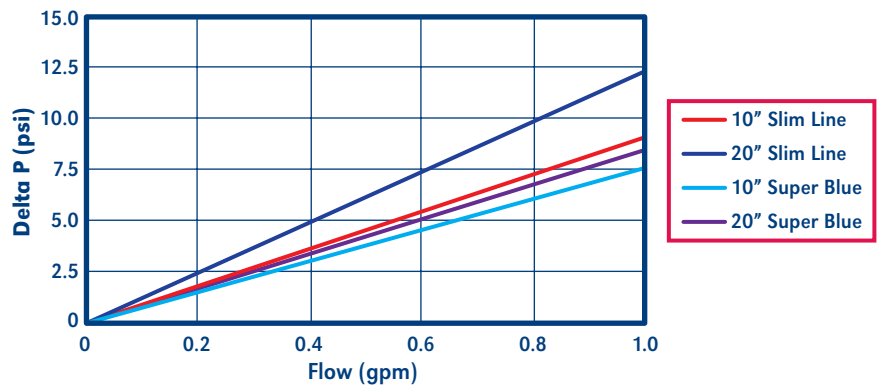
## TECHNICAL DATA

	10" SLIM	20" SLIM	10" SUPER BLUE	20" SUPER BLUE
Diameter (in.)	3.0"	2.9"	4.6"	4.6"
Length (in.)	9.9"	20.0"	10.0"	20.0"
Temperature (°F.)				
Min.	40°	40°	40°	40°
Max	100°	100°	100°	100°
Pressure (psi)				
Min.	20	20	20	20
Max.	125	125	125	125
Micron Rating (μ)	25	25	25	25
Materials of Construction				
① Gasket	TPE	TPE	TPE	TPE
② Cap	PP	ABS	ABS	ABS
③ Pad	PE	PE	PE	PE
④ Body / Tube	PP	ABS	ABS	ABS
⑤ Media*	ResinTech® Premium SIR-110-HP Anion Resin*			

PP Polypropylene  
ABS Acrylonitrile Butadiene Styrene

PE Polyester  
TPE Thermoplastic Elastomer

## PERCHLORATE DELTA P



## MEDIA

As a division of ResinTech, Inc.®, Aries FilterWorks is the only integrated water filtration media and cartridge manufacturer providing a premium product at the most competitive cost. Aries builds technology and knowledge of ion exchange and specialty adsorbents into each cartridge. Strict quality control over all aspects of cartridge production allows complete traceability of every filter.

## ORDERING GUIDE

PART NUMBER	MEDIA	STANDARD HOUSING DIAMETER X LENGTH	SERVICE FLOW RATE (GPM)	CAPACITY (GRAINS)
AF-10-3611		2.5" x 10"	0.1	595
AF-20-3611	ResinTech® Premium	2.5" x 20"	0.2	1,059
AF-10-3611-BB	SIR-110-HP Anion Resin	4.5" x 10"	0.2	1,200
AF-20-3611-BB		4.5" x 20"	0.5	2,650



\*ResinTech® SIR-110-HP  
WQA/NSF 61 Gold Seal Certified  
for Material Safety.



Notes: Ordering information subject to change without notice. Please verify all specifications prior to ordering.

To place an order call (856) 626-1550 or e-mail ariescs@ariesfilterworks.com

### IMPORTANT NOTICE TO USER:

The following is made in lieu of all other warranties expressed or implied. Manufacturer's and Seller's only obligation shall be to issue credit against the purchase or replacement of the equipment proved to be defective in material or workmanship. Neither Manufacturer nor Seller shall be liable for any injury, loss or damage, direct or indirect, special or consequential, arising out of the use of, misuse, or the inability to use such product. The information contained herein is based on technical data and tests which we believe to be reliable and is intended for use by persons having technical skill at their discretion and risk. Since conditions of use are outside ResinTech's control, we can assume no liability whatsoever for results obtained or damages incurred through the application of the data presented. This information is not intended as a license to operate under, or a recommendation to infringe upon, any patent of ResinTech's or others covering any material or use. The foregoing may not be altered except by written agreement signed by officers of the manufacturer.

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