ASM-10-HP

Grade: High Purity

Arsenic selective high-purity hybrid media, styrene/DVB gel, chloride form

ResinTech ASM-10-HP is a chloride form arsenic selective hybrid anion exchange resin. ASM-10-HP has hydrated iron oxide monoatomically dispersed throughout the polymer giving the product hybrid properties, and exceptional capacity for certain anions. ASM-10-HP is intended for arsenic removal although it does remove uranium and other trace level contaminants. ASM-10-HP has been Gold Seal Certified by the WQA for use in potable water applications.

FEATURES & BENEFITS

- High Affinity For Arsenic Over Other Anions
- No Arsenic Dumping
- Superior Physical Stability
- Complies With US FDA Regulations

APPLICATIONS

- Arsenic Removal
- Silica Removal
- Phosphate Removal
- Potable Water
- Seimiconductor Waste

PHYSICAL PROPERTIES

Polymer Matrix	Styrene/DVB
Polymer Type	Gel
Ionic Form (as shipped)	Chloride (Cl^-)
Functional Group	Hybrid
Physical Form	Spherical Beads
Uniformity Coefficient	1.60
Particle Size	16-50 US mesh (297-1190µm)
< 50 mesh (300 µm) %	< 1%
Minimum Sphericity (%)	93
Capacity (meq/mL)	1.40
Moisture Retention (%)	35 to 45
Shipping Weight	48 - 50 lbs/cu.ft. (769 - 801 g/L)
Color	Black

SUGGESTED OPERATING CONDITIONS

Maximum Temperature	250°F (121°C)
Minimum Bed Depth	24 in. (61.0 cm)
Maximum Pressure Loss	25 psi (172 kPa)
Backwash Expansion (%)	25 to 50
Operating pH Range	4.0 to 8.0
Flow Rate	
Working Service	1-10 gpm/cu.ft. (8-80 BV/h)

Conforms to §21CFR173.25 of the USFDA Food Additives Regulations

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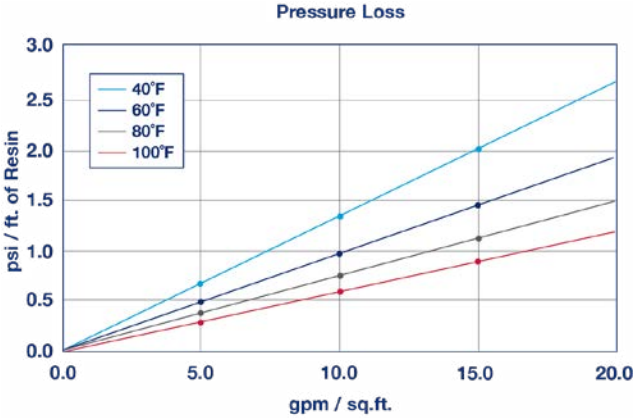
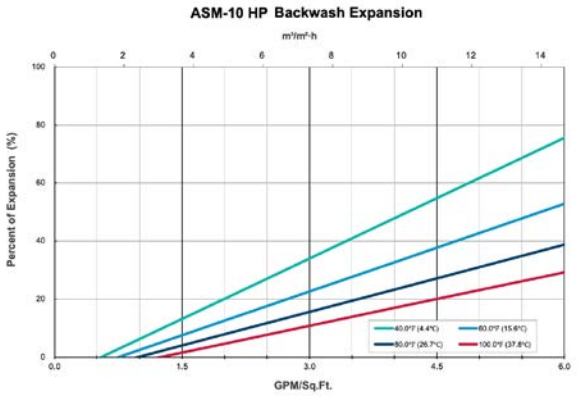
PRESSURE LOSS



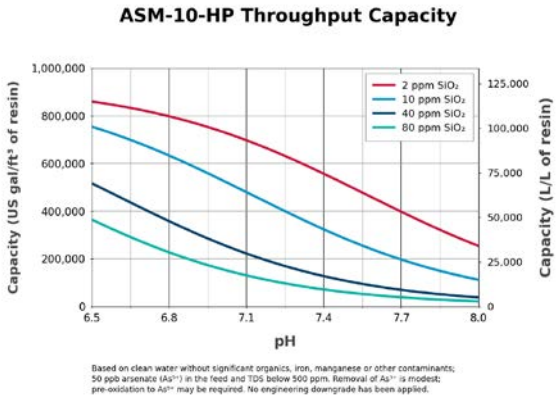
The graph above shows the expected pressure loss of ResinTech ASM-10-HP per foot of bed depth as a function of flow rate at various temperatures.

BACKWASH EXPANSION



The graph above shows the expansion characteristics of ResinTech ASM-10-HP as a function of flow rate at various temperatures.

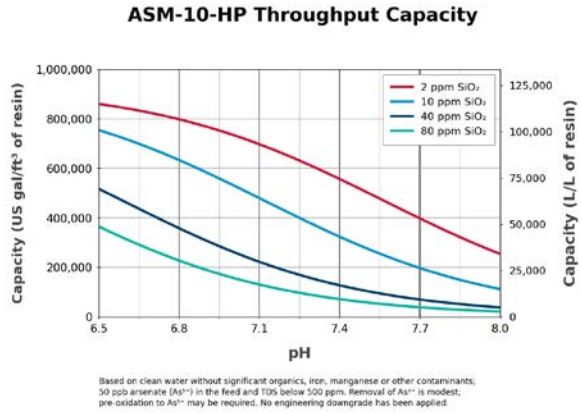
CAPACITY



Capacity and leakage data are based on the following: 2:1 Ca:Mg ratio, 500 ppm TDS as CaCO3, 0.2% hardness in the salt and 10% brine concentration applied co-currently through the resin over 30 minutes. No engineering downgrade has been applied.

ARSENIC REMOVAL

Under ideal conditions ResinTech **ASM-10-HP** will reduce 50 ppb of arsenate to less than 10 ppb for more than 500,000 gallons per cubic foot. Limiting factors are high pH, high silica concentration, and high sulfate concentration. Capacity can also be reduced by intermittent operation and various foulants, notably suspended solids.



Capacity is based on clean waters that do not contain significant levels of organics, iron, manganese, or other contaminants. The chart is based on 50 ppb of arsenate (As^{+5}) in the feed and TDS less than 500 ppm. ASM-10-HP removes only modest amounts of As^{+3}, therefore pre-oxidation to As+5 may be required. No engineering downgrade has been applied.

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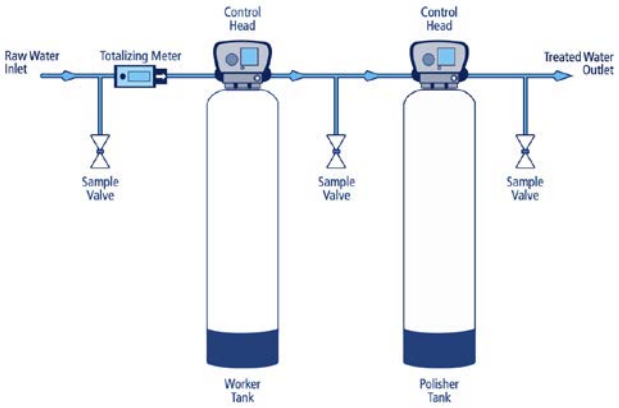
SUGGESTED SYSTEM CONFIGURATION FOR ASM-10-HP



CERTIFICATIONS

US Patent # US 7504036

Meets NSF/ANSI/CAN 61

Meets NSF/ANSI/CAN 372

PACKAGING

Standard

1 cu.ft. Bag | 7 cu.ft. Drum
200L Drum | 25L Bag

Metric

42 cu.ft. Supersack | 5 cu.ft. Drum
1000L Supersack | 140L Drum

Shipping Weight

48 - 50 lbs/cu.ft. (769 - 801 g/L)

MATERIAL SAFETY DATA SHEETS (MSDS)

Material Safety Data Sheets (MSDS) are available for all products on the ResinTech website. They contain important health and safety information that may be needed to protect your employees and customers from any known health and safety hazards associated with our products. We recommend that you secure and study the pertinent MSDS for our products and any other products being used.

These suggestions and data are based on information we believe to be reliable. They are offered in good faith. However we do not make any guarantee or warranty. We caution against using these products in an unsafe manner or in violation of any patents; further we assume no liability for the consequences of any such actions.

Safety Data Sheets (SDS) are available at resintech.com

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