SBMP1

Grade: Standard

Strong base type 1 anion resin, styrene/DVB macroporous, chloride form

ResinTech SBMP1 is a chloride form type 1 macroporous strong base anion resin. It is optimized for waters that punish other anion resins. SBMP1 is intended for high flow rate and high-temperature polishing applications, and for other applications that require the highest possible physical strength and chemical durability.

FEATURES & BENEFITS

- Macroporous structure
- Organic fouling resistance
- Superior physical stability
- Complies with US FDA regulations

APPLICATIONS

- Dealkalizer
- Demineralization / DI
- Trace Contaminant Removal
- DBP
- Potable Water

PHYSICAL PROPERTIES

Polymer Matrix	Styrene/DVB
Polymer Type	Macroporous
Ionic Form (as shipped)	Chloride (Cl^-)
Functional Group	Trimethylamine
Physical Form	Spherical Beads
Uniformity Coefficient	1.60
Particle Size	20-50 US mesh (297-841µm)
< 50 mesh (300 µm) %	< 1%
Minimum Sphericity (%)	95
Reversible Swelling	18 to 25% ($Cl \rightarrow OH$)
Capacity (meq/mL)	1.10
Moisture Retention (%)	56 to 60
Shipping Weight	41 - 43 lbs/cu.ft. (657 - 689 g/L)
Color	Tan to Brown

SUGGESTED OPERATING CONDITIONS

Maximum Temperature	170°F (77°C)
Maximum Pressure Loss	20 psi (138 kPa)
Backwash Expansion (%)	25 - 50
Flow Rate	
Working Service	2-15 gpm/cu.ft. (16-120 BV/h)

REGENERATION DETAILS

Salt Cycle (NaCl)	2% - 10%
Displacement Flow Rate	Same as dilution water
Displacement Volume	10-15 gals/cu.ft. (1-2 BV)

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

RESINTECH® INC.
INNOVATIONS IN ION EXCHANGE

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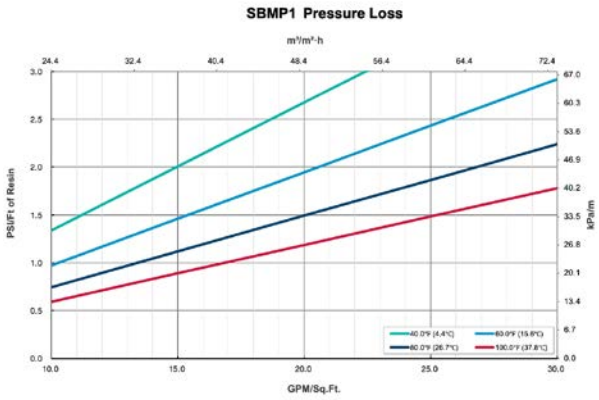
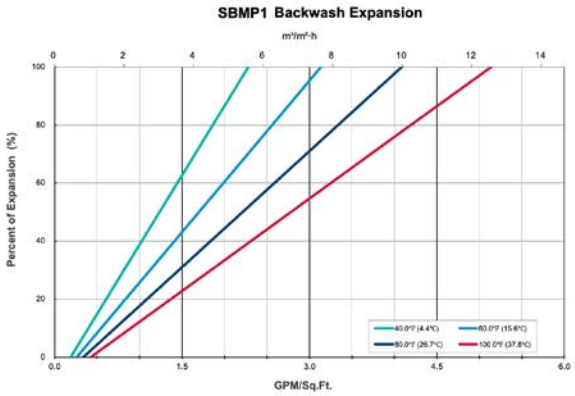
PRESSURE LOSS



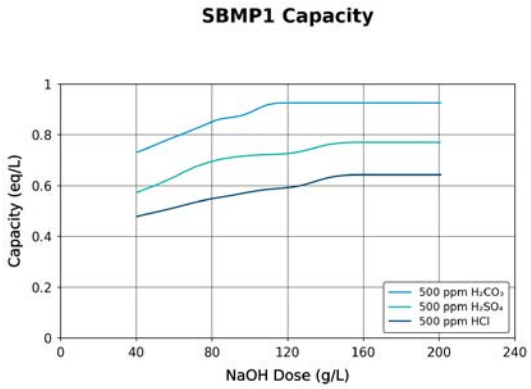
The graph above shows the expected pressure loss of ResinTech SBMP1 per foot of bed depth as a function of flow rate at various temperatures.

BACKWASH EXPANSION



The graph above shows the expansion characteristics of ResinTech SBMP1 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.

RADWASTE

ResinTech **SBMP1** is ideally suited for radwaste applications requiring the removal of radioactive anions, especially when the feed is significantly radioactive. The high crosslinking content of SBMP1 gives it improved resistance to chemical damage caused by ionizing radiation. Structural integrity is maintained up to approximately 1 x 109 rads exposure.

DEMINERALIZATION

See ResinTech **SBMP1-OH**.

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CERTIFICATIONS

Meets NSF/ANSI/CAN 61

Meets NSF/ANSI/CAN 372

Kosher Certified

PACKAGING

Standard

42 cu.ft. Supersack | 7 cu.ft. Drum
200L Drum | 1000L Supersack

Metric

1 cu.ft. Bag | 5 cu.ft. Drum
25L Bag | 140L Drum

Shipping Weight

41 - 43 lbs/cu.ft. (657 - 689 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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