

MAGNA SBMP1-UPS

STRONG BASE ANION

UNIFORM PARTICLE SIZE
TYPE I ANION
POLYSTYRENIC MACROPOROUS
CHLORIDE FORM

ResinTech SBMP1-UPS is a uniform particle size chloride form type 1 macroporous strong base anion resin. The uniform beads and somewhat smaller harmonic mean size yield minimal pressure loss and better regeneration efficiency compared to Gaussian-sized resins. SBMP1-UPS is intended for use in industrial applications that require a macroporous type 1 anion resin and is recommended for countercurrently regenerated systems such as packed beds.

APPLICATIONS

- Demineralization
- Packed Beds

| TYPICAL PROPERTIES & PHYSICAL CHARACTERISTICS | |
|---|---|
| Polymer Matrix | Styrenic Macroporous |
| Ionic Form | Chloride |
| Functional Group | Trimethylamine |
| Physical Form | Spherical Beads |
| Particle Size | 20 to 49 US Mesh (400 - 841 μ m) |
| % < 50 mesh (300μm) | < 0.5% minus 50 |
| Minimum Sphericity | 95% |
| Uniformity Coefficient | 1.25 |
| Reversible Swelling | Cl to OH 15% to 20% |
| Temp Limit | 170°F (77°C) |
| Capacity (meq/mL) | 1.1 |
| Moisture Retention | 50% to 63% |
| Shipping Weight | 41 - 43 lbs/ft ³ (657 - 689 g/L) |
| Color | White to Cream |
| Regenerability | Yes |
| Uniform Particle Size | Yes |

PACKAGING OPTIONS

- 500 ml samples
- 1 ft³ drums
- 1 ft³ bags
- 7 ft³ drums
- 1 ft³ boxes
- 42 ft³ supersacks

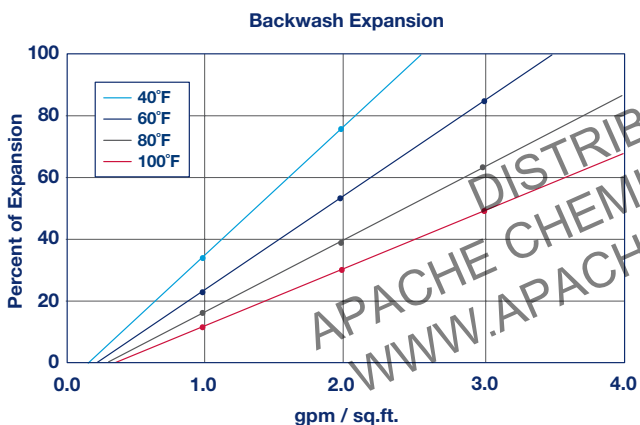
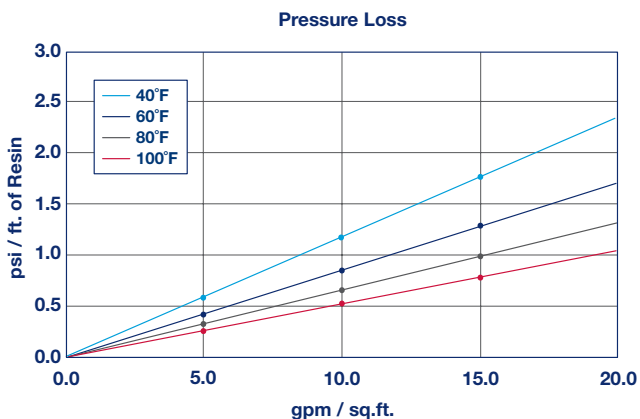
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PACKED BEDS

ResinTech SBMP1-UPS has a very narrow particle size range. The uniformity allows a slightly smaller bead size to be used which results in faster exchange of ions, more efficient regeneration and lower leakage. SBMP1-UPS is ideal for packed beds and other types of countercurrent ion exchangers where consistent operation is important cycle after cycle. Higher void space and minimal fine mesh beads provides low pressure loss and helps prevent channeling and other distribution problems. Packed beds typically have limited freeboard (only a few inches with the resin in the swollen form).

SUGGESTED OPERATING CONDITIONS

| | |
|--------------------------------|-------------------------|
| Maximum continuous temperature | 170°F |
| Chloride form | |
| Minimum bed depth | 24 inches |
| Backwash expansion | 25 to 50 percent |
| Maximum pressure loss | 20 psi |
| Operating pH range | 0 to 14 SU |
| Regenerant Concentration | |
| Hydroxide cycle | 2 to 6 percent NaOH |
| Salt cycle | 2 to 10 percent NaCl |
| Regenerant level | 4 to 10 lbs./cu.ft. |
| Regenerant flow rate | 0.25 to 1.0 gpm/cu.ft. |
| Regenerant contact time | >40 minutes |
| Displacement flow rate | Same as dilution water |
| Displacement volume | 10 to 15 gallons/cu.ft. |
| Rinse flow rate | Same as service flow |
| Rinse volume | 35 to 60 gallons/cu.ft. |
| Service flow rate | 1 to 10 gpm/cu.ft. |

Note: These guidelines describe average low risk operating conditions. They are not intended to be absolute minimums or maximums. For operation outside these guidelines, contact ResinTech Technical Support

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