

# SBMP1-UC1

## Highly Uniform Particle Size, Type I Anion, Polystyrenic Macroporous, Chloride Form

ResinTech SBMP1-UC1 is a chloride form type 1 macroporous strong base anion resin. It is optimized for waters that punish other anion resins with a highly uniform particle size. SBMP1-UC1 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



Kosher Certified

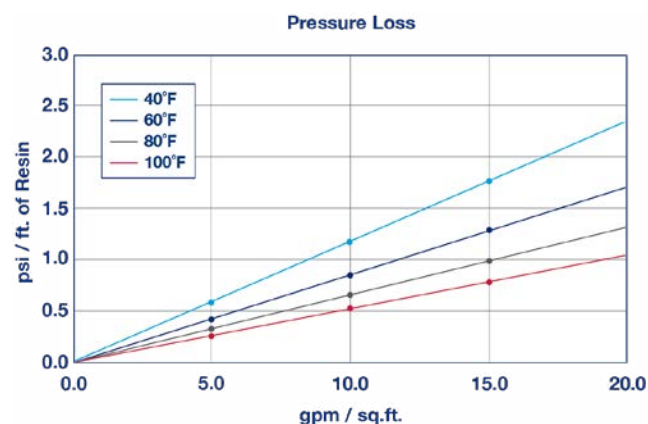
Halal Certified

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

SBMP1-UC1

Polymer Matrix	Styrene/DVB	Reversible Swelling	15 to 25% (Cl → OH)
Polymer Type	Macroporous	Uniformity	UC1
Ionic Form (as shipped)	Chloride (Cl <sup>-</sup> )	Uniformity Coefficient	1.10
Functional Group	Trimethylamine	Capacity (meq/mL)	1.10
Physical Form	Spherical Beads	Moisture Retention (%)	56 to 63
Particle Size US Mesh (µm)	20 (841) to 40 (400)	Shipping Weight	41 - 43 lbs/cu.ft. (657 - 689 g/L)
< 50 mesh (300 µm) %	< 0.2%	Color	White to Cream
Minimum Sphericity (%)	98	Regenerable	Regenerable

**PRESSURE LOSS**



The graph above shows the expected pressure loss of ResinTech SBMP1-UC1 per foot of bed depth as a function of flow rate at various temperatures.

**SUGGESTED OPERATING CONDITIONS**

Maximum Temperature	158°F (70°C)	Flow Rate	
Maximum Pressure Loss	20 psi (138 kPa)	Working Service	2-15 gpm/cu.ft. (16-120 BV/h)
Backwash Expansion (%)	25 - 50		



**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 prevents channeling and other distribution problems. Packed beds typically have limited freeboard (only a few inches with the resin in the swollen form).

**DEMINEALIZATION**

See ResinTech **SBMP1-OH-UPS**.

**REGENERATION DETAILS**

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

**PACKAGING**

**Standard**

42 cu.ft. Supersack | 7 cu.ft. Drum  
 1 cu.ft. Bag | 5 cu.ft. Drum

**Metric**

25L Bag | 140L Drum

**SAFETY DATA SHEETS (SDS)**

Safety Data Sheets (SDS) 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](http://resintech.com)

