SBMP1-OH-CP

Grade: Condensate Polishing

Strong base type 1 anion resin, styrene/DVB macroporous, condensate polishing grade, hydroxide form

ResinTech SBMP1-OH-CP is a polisher grade type 1 macroporous strong base anion resin in hydroxide form. It offers high capacity and resistance to both thermal and chemical oxidation. It is a controlled particle size resin optimized for minimal pressure loss and perfect separation from "CP" grade cation resins. SBMP1-OH-CP is ideally suited for high flow rate, deep bed condensate polishing applications when paired with either CG10-H-CP or SACMP-H-CP.

FEATURES & BENEFITS

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

APPLICATIONS

- High Purity DI Water
- Condensate Polishing
- Ultrapure Water Production (UPW)
- Demineralization / DI
- Mixed Bed Components
- Silica Removal

PHYSICAL PROPERTIES

Polymer Matrix	Styrene/DVB
Polymer Type	Macroporous
Ionic Form (as shipped)	Hydroxide (OH^-)
Functional Group	Trimethylamine
Physical Form	Spherical Beads
Uniformity Coefficient	1.60
Effective Particle Size	625 +100 um
Particle Size	16-50 US mesh (297-1190µm)
< 50 mesh (300 µm) %	< 1
Minimum Sphericity (%)	97
Reversible Swelling	18 to 25% (Cl → OH)
Capacity (meq/mL)	0.90
Moisture Retention (%)	64 to 73
Shipping Weight	39 - 41 lbs/cu.ft. (625 - 657 g/L)
Color	Tan to Brown
Average, grams per bead	350

SUGGESTED OPERATING CONDITIONS

Maximum Temperature	140°F (60°C)
Minimum Bed Depth	24 in. (61.0 cm)
Maximum Pressure Loss	20 psi (138 kPa)
Backwash Expansion (%)	25 - 50
Operating pH Range	0 to 14
Flow Rate	
Working Service	2-15 gpm/cu.ft. (16-120 BV/h)

REACH COMPLIANCE

RESINTECH® INC.
INNOVATIONS IN ION EXCHANGE

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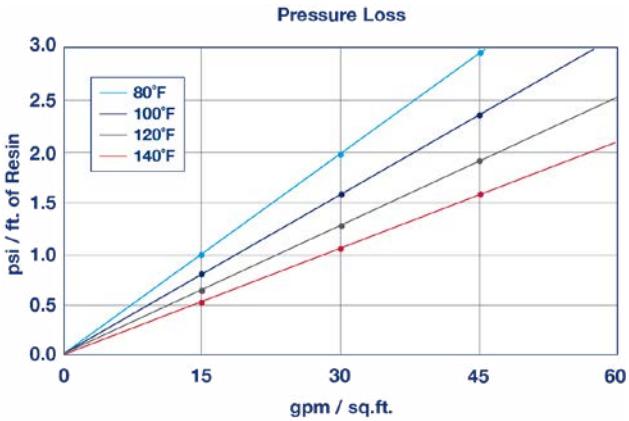
REGENERATION DETAILS

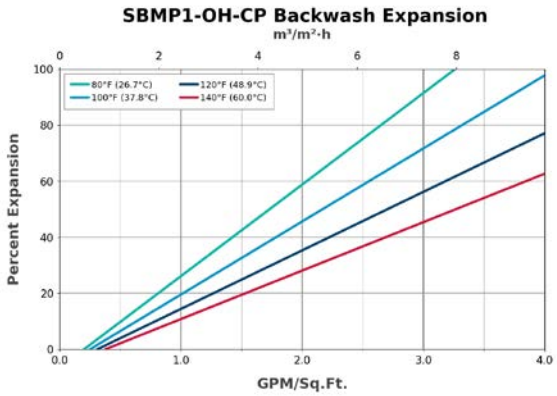
Hydroxide Cycle (NaOH)	2 to 6%	Displacement Flow Rate	Same as dilution water
Regenerant Level	4-10 lbs/cu.ft. (64.1-160.2 g/L)	Displacement Volume	10-15 gals/cu.ft. (1-2 BV)
Regenerant Flow Rate	0.25-1.0 gpm/cu.ft. (2-8 BV/h)	Rinse Flow Rate	Same as service flow
Regenerant Contact Time	>40 minutes	Rinse Volume	35-60 gals/cu.ft. (5-8 BV)

PRESSURE LOSS



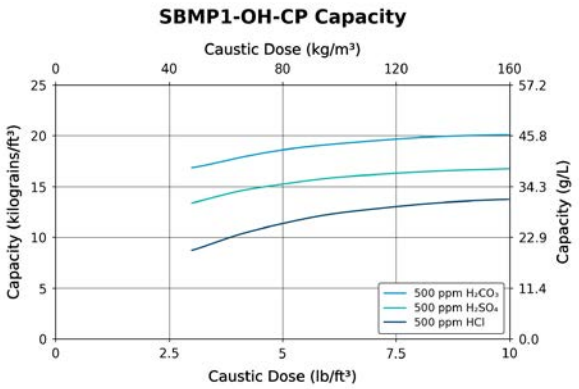
The graph above shows the expected pressure loss of ResinTech SBMP1-OH-CP per foot of bed depth as a function of flow rate at various temperatures.

BACKWASH EXPANSION



The graph above shows the expansion characteristics of ResinTech SBMP1-OH-CP 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.

CONDENSATE POLISHING

ResinTech **SBMP1-OH-CP** is ideally suited for high pressure condensate polishing applications. It has very high DVB and provides long service life when treating condensates that contain traces of CO_2 and other anionic contaminants. **SBMP1-OH-CP** has narrowly graded particle size and slightly smaller bead size to provide low pressure loss and help improve separation from CP grade cation resins.

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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

39 - 41 lbs/cu.ft. (625 - 657 g/L)

Minimum Order Volume: 210 (cu.ft.)

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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