

MAGNA SBMP1-OH-CP

STRONG BASE ANION

CONDENSATE POLISHING
TYPE I ANION
STYRENIC MACROPOROUS
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 uniform 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.

APPLICATIONS

- Condensate Polishing

TYPICAL PROPERTIES & PHYSICAL CHARACTERISTICS	
Polymer Matrix	Styrenic Macroporous
Ionic Form	Hydroxide
Functional Group	Trimethylamine
Physical Form	Spherical Beads
Particle Size	20 to 40 US Mesh (400 - 841 μm)
% < 50 mesh (300μm)	< 0.5%
Minimum Sphericity	97%
Uniformity Coefficient	1.25
Reversible Swelling	OH to Cl -18% to -25%
Temp Limit	160°F (71°C)
Capacity (meq/mL)	0.95
Moisture Retention	64% to 73%
Shipping Weight	39 - 41 lbs/ft ³ (625 - 657 g/L)
Color	Yellow to Tan
Regenerability	Yes
Uniform Particle Size	Yes

PACKAGING OPTIONS

- 1 ft³ bags
- 1 ft³ boxes
- 1 ft³ drums
- 7 ft³ drums
- 42 ft³ supersacks

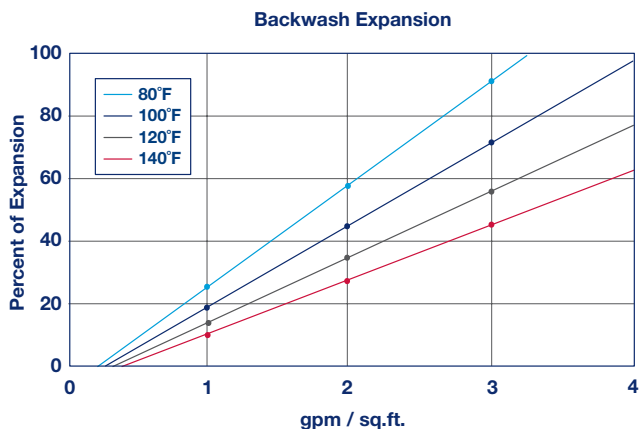
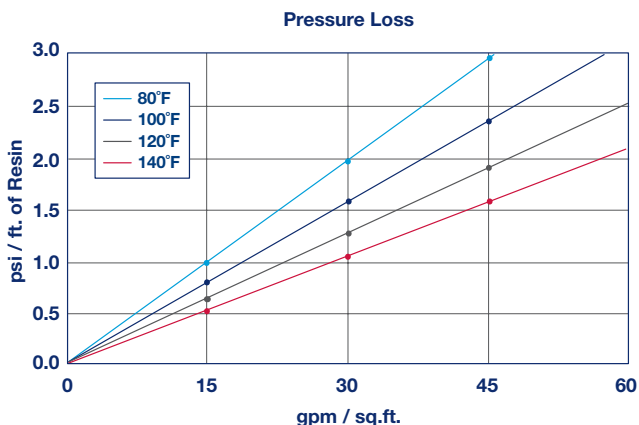
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CONDENSATE POLISHING

SBMP1-OH-CP is ideally suited for high pressure condensate polishing applications. It has very high capacity and provides long service life when treating condensates that contain traces of CO₂ and other anionic contaminants. SBMP1-OH-CP has narrowly graded particle size to provide low pressure loss and help improve separation from CP grade cation resins.

MAXIMUM IMPURITIES

Anionic impurities

Equivalent percent Chloride (% Cl)	< 3.0
Equivalent percent Sulfate (% SO ₄)	< 1.5
Equivalent percent Hydroxide (% OH)	> 95

Crush strength

Average, grams per bead	> 350
Percent greater than 200 grams	> 95

SUGGESTED OPERATING CONDITIONS

Maximum continuous temperature	140°F
Maximum intermittent temperature	180°F
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
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	2 to 15 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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