

SBG1P-OH-UC1

Strong base type 1 anion resin, porous styrene/DVB gel, highly uniform particle sized, hydroxide form

ResinTech SBG1P-OH-UC1 is a highly uniform particle size, type 1 porous gel strong base anion resin in hydroxide form. SBG1P-OH-UC1 is intended for use in industrial demineralizing applications such as two beds and mixed beds where a resin that has been tested to confirm high resistivity and low TOC is required.



FEATURES & BENEFITS

- Highly uniform particle size
- Ideal for industrial demineralizers
- Superior physical stability
- Organic fouling resistance
- Complies with US FDA regulations
- Macroporous structure

APPLICATIONS

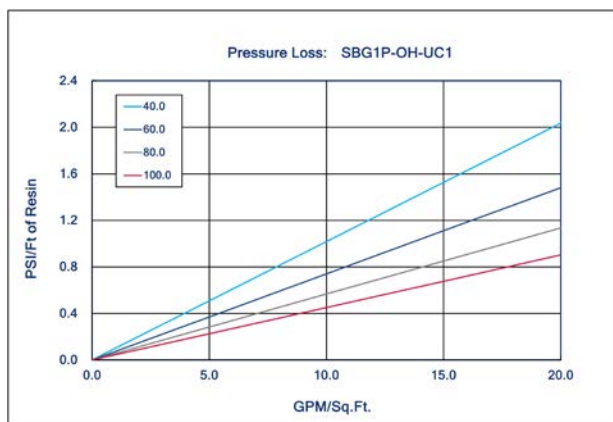
- High Purity DI Water
- Condensate Polishing
- Ultrapure Water Production (UPW)
- Demineralization / DI
- Mixed Bed Components
- Silica Removal

REACH Registered

SBG1P-OH-UC1

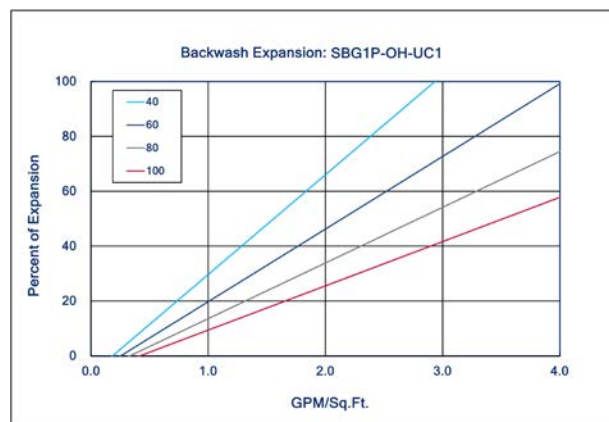
Polymer Matrix	Styrene/DVB	Minimum Sphericity (%)	95
Polymer Type	Porous	Reversible Swelling	18 to 25% (Cl → OH)
Ionic Form (as shipped)	Hydroxide (OH ⁻)	Uniformity	UC1
Functional Group	Trimethylamine	Uniformity Coefficient	1.10
Physical Form	Spherical Beads	Capacity (meq/mL)	1.00
Particle Size US Mesh (µm)	20 (841) to 40 (400)	Moisture Retention (%)	65 to 70
< 50 mesh (300 µm) %	< 0.5%	Shipping Weight	41 - 43 lbs/cu.ft. (657 - 689 g/L)
		Color	White To Amber

PRESSURE LOSS



The graph above shows the expected pressure loss of ResinTech SBG1P-OH-UC1 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 SBG1P-OH-UC1 as a function of flow rate at various temperatures.

SUGGESTED OPERATING CONDITIONS

Maximum Temperature	140°F (60°C)	Operating pH Range	0 to 14
Minimum Bed Depth	24 in. (61.0 cm)	Flow Rate	
Maximum Pressure Loss	20 psi (138 kPa)	Working Service	1-10 gpm/cu.ft. (8-80 BV/h)
Backwash Expansion (%)	25 - 50		

DEMINERALIZATION

ResinTech SBG1P-OH-UC1 can be used as the anion component in a variety of demineralization applications where a hydroxide form anion resin is coupled with a hydrogen form cation resin. Common configurations include separate beds, mixed beds and other more complicated arrangements. Regeneration is accomplished with dilute sodium hydroxide, heated when low silica leakage is desired.



REGENERATION DETAILS

Hydroxide Cycle (NaOH)	2 to 6%	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](https://www.resintech.com)

