SBACR-MP-UPS

Grade: Standard

Strong base type 1 anion resin, styrene/DVB macroporous, chloride form

ResinTech SBACR-MP is a high purity acrylic macroporous strong base anion resin in chloride form. Its chemical and physical properties are similar to other resins in the SBACR-MP family. SBACR-MP is intended for use for the removal of NOM (naturally occurring organic matter) other applications that require potable water certification.

FEATURES & BENEFITS

- High capacity for organics
- Excellent regeneration efficiency
- Superior physical stability
- Controlled particle size
- Complies with US FDA regulations

APPLICATIONS

- Municipal Drinking Water
- Tannin

PHYSICAL PROPERTIES

Polymer Matrix	Acrylic/DVB
Polymer Type	Macroporous
Ionic Form (as shipped)	Chloride (Cl^-)
Functional Group	Quaternary Amine
Physical Form	Spherical Beads
Uniformity Coefficient	1.25
Effective Particle Size	625 +100 µm
Particle Size	16-50 US mesh (297-1190µm)
< 50 mesh (300 µm) %	< 1%
Minimum Sphericity (%)	93
Reversible Swelling	63 to 72% (Cl → OH)
Capacity (meq/mL)	0.80
Moisture Retention (%)	63 to 72
Shipping Weight	43 - 45 lbs/cu.ft. (689 - 721 g/L)
Color	White to Cream

SUGGESTED OPERATING CONDITIONS

Maximum Temperature	150°F (66°C)
Maximum Pressure Loss	20 psi (138 kPa)
Backwash Expansion (%)	25 - 50
Flow Rate	
Working Service	1-4 gpm/cu.ft. (8-32 BV/h)

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

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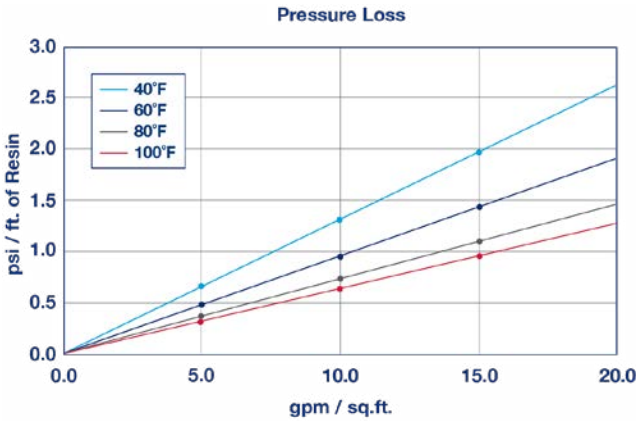
REGENERATION DETAILS

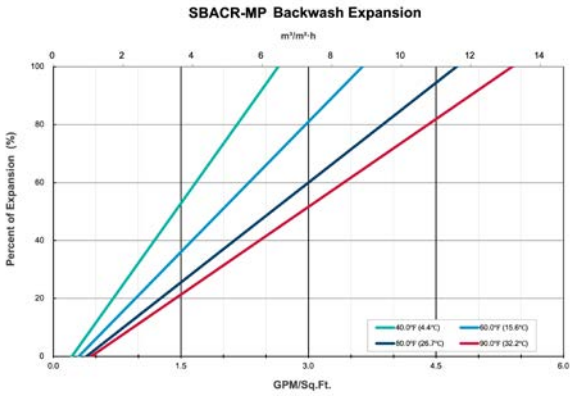
Salt Cycle (NaCl)	2% to 10%	Displacement Volume	10-15 gals/cu.ft. (1-2 BV)
Displacement Flow Rate	Same as dilution water		

PRESSURE LOSS



The graph above shows the expected pressure loss of ResinTech SBACR-MP-UPS 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 SBACR-MP-UPS as a function of flow rate at various temperatures.

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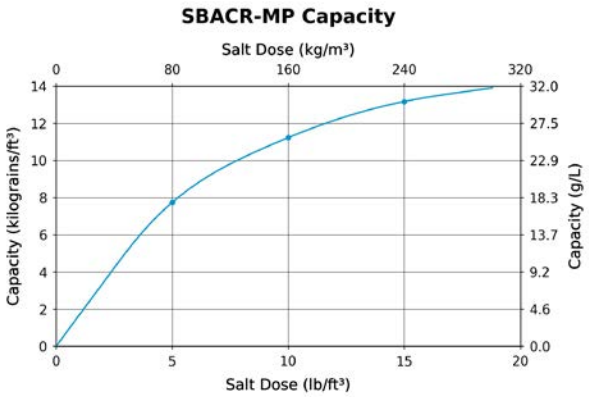
ORGANIC TRAP

ResinTech SBACR-MP has the highest possible capacity for tannins and other naturally occuring organic matter (NOM) due to its acrylic polymer backbone and macroporous physical structure. Tannins and similar naturally occurring organics cause most of the color in potable waters. SBACR-MP removes these substances and is easily regenerated with sodium chloride, in the same fashion as a water softener. Organic trap resins should be regenerated frequently to prevent the NOM from building up inside the resin beads and eventually causing fouling. For industrial applications it is sometimes useful to add a little caustic to the brine in order to increase capacity and reduce leakage. Use of chloride form anion resin reduces the pH of the product water during the early part of the exhaustion cycle.



Capacity based on 2 gpm/cu.ft. flow rate, pH near neutral, and 36 inch minimum bed depth. Capacity is for TOC plus sulfate. No engineering downgrade has been applied

CERTIFICATIONS

Meets NSF/ANSI/CAN 61

Meets NSF/ANSI/CAN 372

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

43 - 45 lbs/cu.ft. (689 - 721 g/L)

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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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