



## SuperEx C 18 H

### Strong Acid Cation Exchange Resin

SuperEx C 18 H is a premium grade strong acid cation exchange resin containing nuclear sulphonic acid groups. It is supplied with a standard particle size distribution to provide good kinetics and minimum pressure drop. It exhibits excellent physical and chemical stability along with good operating characteristics.

SuperEx C 18 H is supplied in moist spherical beads in Hydrogen form.

It is ideally suited for use in a wide range of pH and temperature conditions.

### TYPICAL CHARACTERISTICS

| Specs                         |                 |
|-------------------------------|-----------------|
| Appearance                    | Spherical Beads |
| Matrix                        | Styrene DVB     |
| Functional Group              | Sulphonic Acid  |
| Ionic Form                    | Hydrogen        |
| Exchange Capacity meq/ml min. | 1.8             |
| Moisture %                    | 49 to 55        |
| Reversible Swelling approx.   | 8               |
| Particle Size Distribution mm | 0.4 to 1.1      |
| Effective Size mm             | 0.45 to 0.65    |
| Uniform Coefficient Max.      | 1.7             |
| Max Operating Temp.           | 120             |
| Backwash Settled Density g/l  | 780 to 810      |

### KEY FEATURES

- Lowest Organics than any other conventional Resin
- 100 % Strainer choke free resin
- Controlled Particle size for lowest pressure drop
- 20% less regenerant required hence generating lesser waste water\*

\*Under Standard Operating Conditions

### TYPICAL APPLICATIONS

- Demineralization and De-alkalization of water
- Various Process Applications

### STANDARD PACKING

- 25 lit LDPE Bags
- 200 lit Drum & 1000 lit Big Bags

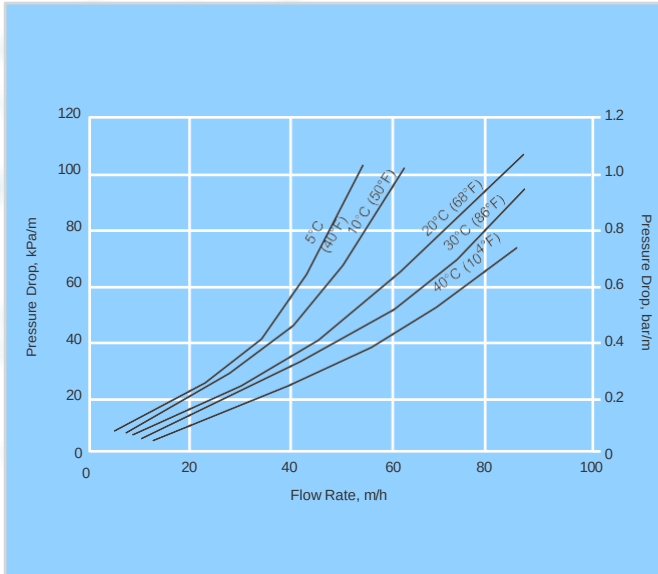


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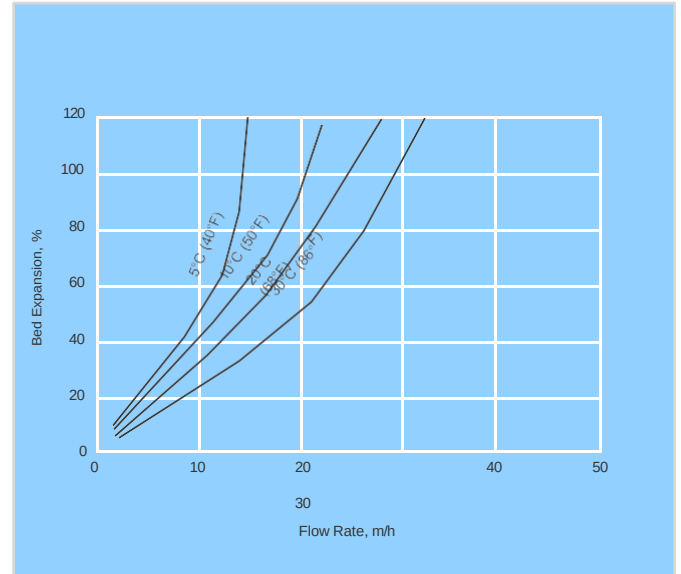
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### GRAPH

PRESSURE DROP



BACKWASH EXPANSION



### STANDARD REGENERATION PARAMETERS

| Regenerant                           | HCl                                                                        | H <sub>2</sub> SO <sub>4</sub>                                                                                  |
|--------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Backwash expansion space             | 40 to 75 % max                                                             | 40 to 75 % max                                                                                                  |
| Backwash flow rate                   | 9 to 25 m <sup>3</sup> /hr/m <sup>3</sup> (4 to 10 gpm/ft <sup>2</sup> )   | 9 to 25 m <sup>3</sup> /hr/m <sup>3</sup> (4 to 10 gpm/ft <sup>2</sup> )                                        |
| Regeneration level                   | 30 - 100 g HCl/l (1.9 to 6.2 lbs HCl/ft <sup>3</sup> )                     | 40 - 200 g H <sub>2</sub> SO <sub>4</sub> /l (2.5 to 12.5 lbs H <sub>2</sub> SO <sub>4</sub> /ft <sup>3</sup> ) |
| Regenerant concentration             | 3.0 to 5.0% HCl                                                            | 1.5 to 5% for H <sub>2</sub> SO <sub>4</sub> ,                                                                  |
| Regenerant flow rate                 | 2 to 16 m <sup>3</sup> /hr/m <sup>3</sup> (0.25 to 2 gpm/ft <sup>2</sup> ) | 2 to 16 m <sup>3</sup> /hr/m <sup>3</sup> (0.25 to 2 gpm/ft <sup>2</sup> )                                      |
| Regeneration time                    | 20 to 60 mins.                                                             | 20 to 60 mins.                                                                                                  |
| Regeneration flow rate               | 2 to 16 m <sup>3</sup> /hr/m <sup>3</sup> (0.25 to 2 gpm/ft <sup>2</sup> ) | 2 to 16 m <sup>3</sup> /hr/m <sup>3</sup> (0.25 to 2 gpm/ft <sup>2</sup> )                                      |
| Slow rinse at regeneration flow rate | 2 BV                                                                       | 2 BV                                                                                                            |
| Fast rinse at service flow rate      | 3 to 5 m <sup>3</sup> /m <sup>3</sup> (25 to 40 gal/ft <sup>3</sup> )      | 3 to 5 m <sup>3</sup> /m <sup>3</sup> (25 to 40 gal/ft <sup>3</sup> )                                           |

In view of our constant endeavors to improve the quality of our products, we reserve the right to change their specifications without prior notice.