

Felite™ Resin

FA225



Strong Base Anion, Gel
Standard Mesh Size
Cl- form

Industrial Grade

Felite™ FA225 is a gel-type strong base anion exchange resin containing Type II quaternary ammonium groups. It has high capacity, high chemical efficiency and good resistance to fouling, and is intended for use in the chloride form for removal of contaminants such as nitrate, arsenate, chromate, uranium, etc., as well as in the hydroxide form for all types of deionizing systems.

Felite™ FA225 in the hydroxide form is especially well suited for use for systems where amine odors might be objectionable.

Principal Application:

- Demineralization;
- Dealkalization;
- Nitrate Removal;
- Acid Removal;

TYPICAL PHYSICAL & CHEMICAL CHARACTERISTICS:

Polymer Structure	Styrene/DVB, Gel
Appearance	Spherical Beads
Functional Group	Type II Quaternary Ammonium
Ionic form, as shipped	Cl-
Total Capacity (mmol/ml)	1.3 min. (Cl-)
Moisture Retention	45 -51%
Particle Size Range (mm)	0.3 - 1.2 (≤0.3mm, 1% max.; > 1.2mm, 5% max.)
Uniformity Coefficient (max.)	1.7
Reversible Swelling, Cl- → OH- (max.)	20%
Shipping Weight (g/L, approx.)	680 - 715 (43 lb/ft ³)
Specific Gravity	1.08
Temperature Limit	85°C (185°F)
Stability, pH Range	0 - 14

PACKAGING:



25 Litres / 1 cu.ft PE Bag;
48 / 42 Bags Per Pallet;
20 Pallets Per 20ft Container



1 m³ Supersack Per Pallet;
20 Pallets Per 20ft Container



Asia Pacific

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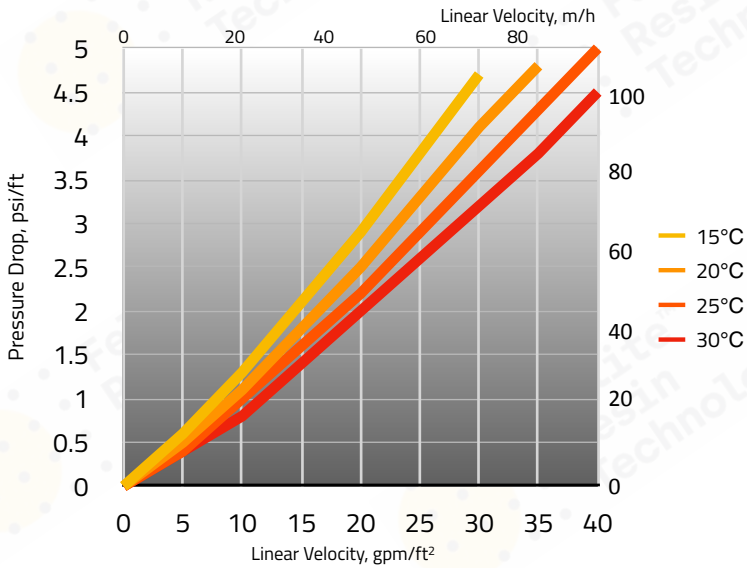
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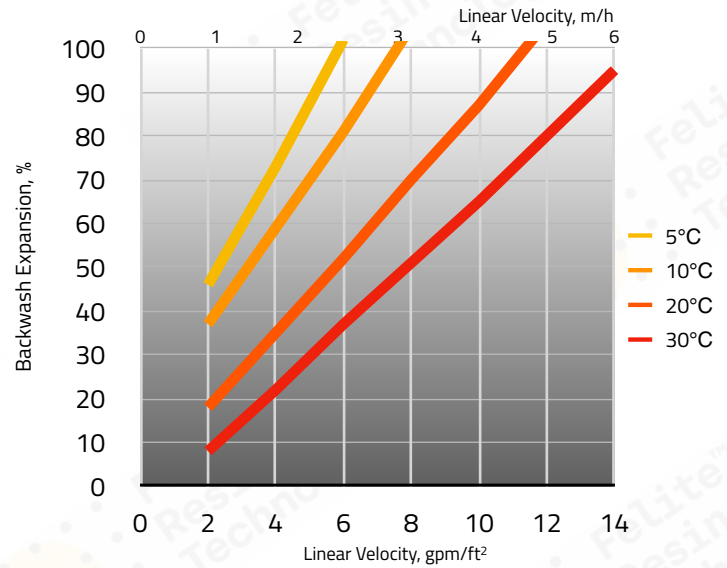
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PRESSURE DROP



BACKWASH EXPANSION



PERFORMANCE

The operating capacity depends on several factors such as the water analysis and the level of regeneration. The data to calculate the operating capacity and the ionic leakage with co-flow regeneration are given in the Engineering Data Sheets.

LIMITS OF USE

Felite™ FA225 resin is suitable for industrial uses. For other specific applications such as pharmaceutical, food processing or potable water applications, it is recommended that all potential users seek advice from Felite™ Resin Technology in order to determine the best resin choice and optimum operating conditions.

HYDRAULIC CHARACTERISTICS

Figure 1 shows the pressure drop data for Felite™ FA225 resin, as a function of service flow rate and water temperature. Figure 2 shows the bed expansion of Felite™ FA225 resin, as a function of backwash flow rate and water temperature. Pressure drop data are valid at the start of the service run with clear water and a correctly classified bed.

SUGGESTED OPERATING CONDITIONS:

Minimum Bed Depth	700mm
Service Flow Rate	5 - 40 BV*/h
Regeneration	
- Regenerant	NaOH
- Level (g/L)	40 - 100
- Concentration (%)	2 - 4
- Flow Rate (BV/h)	4 - 6
- Minimum Contact Time	30 minutes
- Slow Rinse	2 BV* at regeneration flow rate
- Fast Rinse	4 - 8 BV* at service flow rate

* 1 BV (Bed Volume) = 1 m³ solution per m³ resin

The statements, technical information and recommendations contained herein are believed to be accurate as of the date hereof. Since the conditions and methods of use of the product and of the information referred to herein are beyond our control, Felite™ expressly disclaims any and all liability as to any results obtained or arising from any use of the product or such information.

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