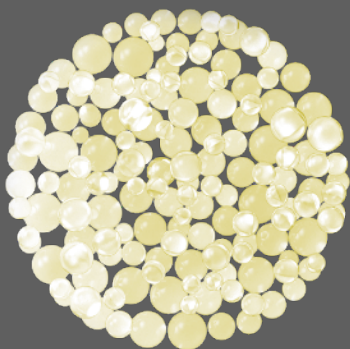


Felite™ Resin

FA127



Strong Base Anion, Gel
Standard Mesh Size
Cl⁻ form

Industrial Grade

Felite™ FA127 is a high capacity, shock resistant, gel, Type I, strong base anion exchange resin supplied in chloride form, with both high operating capacity and the ability to achieve low residual silica levels.

Felite™ FA127 is intended for use in all types of deionization systems and chemical processing applications. It is similar to Felite™ FA124 but has a higher volumetric capacity and exhibits lower TOC leach rates. This makes it the better performer in single-use applications such as in cartridge deionization and when high levels of regeneration are used such as in polishing mixed beds.

On the other hand, Felite™ FA127 is more resistant to organic fouling and gives higher operating capacities at low regeneration levels such as those used in make-up demineralizers.

Principal Application:

- Industrial Demineralization;
- Nitrate Removal;

TYPICAL PHYSICAL & CHEMICAL CHARACTERISTICS:

Polymer Structure	Styrene/DVB, Gel
Appearance	Spherical Beads
Functional Group	Type I Quaternary Ammonium
Ionic form, as shipped	Cl ⁻
Total Capacity (mmol/ml)	1.4 min. (Cl ⁻)
Moisture Retention	43 -48%
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.)	25%
Shipping Weight (g/L, approx.)	685 - 720 (43 lb/ft ³)
Specific Gravity	1.09
Temperature Limit	100°C (212 °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



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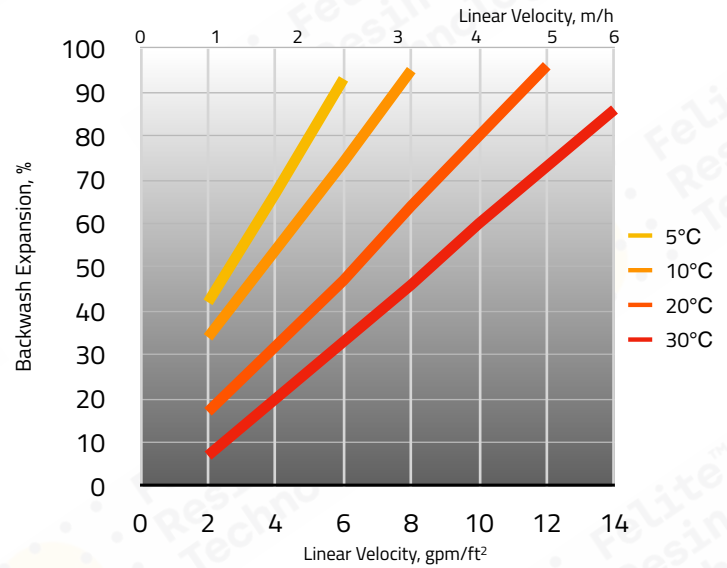
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PRESSURE DROP



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™ FA127 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™ FA127 resin, as a function of service flow rate and water temperature. Figure 2 shows the bed expansion of Felite™ FA127 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	8 - 40 BV*/h
Regeneration	
- Regenerant	NaOH
- Level (g/L)	60 - 150
- 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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