

# Felite™ Resin

## FA124



Strong Base Anion, Porous, Gel

Standard Mesh Size

Cl<sup>-</sup> form

Industrial Grade

Felite™ FA124 is a highly porous, gel, Type I, strong base anion resin, supplied in the chloride form as moist, tough, uniform spherical beads. It has greater porosity, and this provides superior regeneration efficiency, easier separation in regenerable mixed beds, and great resistance to organic fouling.

Felite™ FA124 is intended for use in the hydroxide form for all types of deionizing systems as well as in the chloride form for removal of both strong and weak acid radicals such as sulfate, nitrate, arsenate, chromate, and silicate to extremely low concentration levels.

### Principal Application:

- Industrial Demineralization;
- Silica Removal;

### TYPICAL PHYSICAL & CHEMICAL CHARACTERISTICS:

<b>Polymer Structure</b>	Styrene/DVB, Porous, Gel
<b>Appearance</b>	Spherical Beads
<b>Functional Group</b>	Type I Quaternary Ammonium
<b>Ionic form, as shipped</b>	Cl <sup>-</sup>
<b>Total Capacity (mmol/ml)</b>	1.3 min. (Cl <sup>-</sup> )
<b>Moisture Retention</b>	48 -54%
<b>Particle Size Range (mm)</b>	0.3 - 1.2 (≤0.3mm, 1% max.; > 1.2mm, 5% max.)
<b>Uniformity Coefficient (max.)</b>	1.7
<b>Reversible Swelling, Cl<sup>-</sup> → OH<sup>-</sup> (max.)</b>	30%
<b>Shipping Weight (g/L, approx.)</b>	680 - 715 (42 lb/ft <sup>3</sup> )
<b>Specific Gravity</b>	1.08
<b>Temperature Limit</b>	100°C (212°F)
<b>Stability, pH Range</b>	0 - 14

### PACKAGING:



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



1 m<sup>3</sup> Supersack Per Pallet;  
20 Pallets Per 20ft Container



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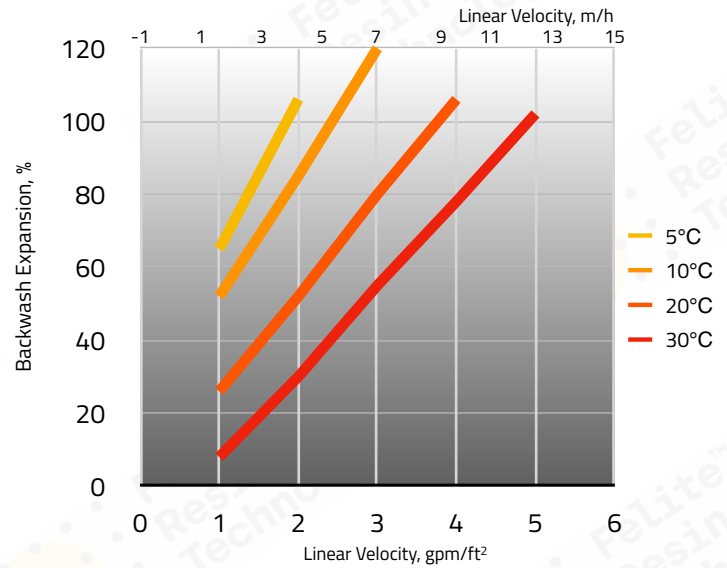
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## PRESSURE DROP



## 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™ FA124 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™ FA124 resin, as a function of service flow rate and water temperature. Figure 2 shows the bed expansion of Felite™ FA124 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:

<b>Minimum Bed Depth</b>	700mm
<b>Service Flow Rate</b>	8 - 40 BV*/h
<b>Regeneration</b>	
- 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 m<sup>3</sup> solution per m<sup>3</sup> 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 reliance on such information.

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