

Felite™ Resin

FA124-OH



Strong Base Anion, Porous, Gel
Standard Mesh Size
OH⁻ form
Industrial Grade

Felite™ FA124-OH is a Type I, strong base anion exchanger with both high operating capacity and the ability to achieve low residual silica levels. It has a clear gel structure, showing excellent regeneration efficiency and rinse characteristics.

Felite™ FA124-OH shows good kinetics of exchange, enabling very low concentration levels of both strong and weak acid anions to be achieved at practical flowrates. In combination with Felite™ FC108-H (strong acid cation resin) gives excellent performance in mixed beds.

Felite™ FA124-OH functions well both in mixed bed and layered bed demineralizer systems, where specially tailored particle size ranges result in achieving or maintaining good separations.

Principal Application:

- Industrial Demineralization;
- Anion Component in Mixed Bed;

TYPICAL PHYSICAL & CHEMICAL CHARACTERISTICS:

Polymer Structure	Styrene/DVB, Porous, Gel
Appearance	Spherical Beads
Functional Group	Type I Quaternary Ammonium
Ionic form, as shipped	OH ⁻
Total Capacity (mmol/ml)	1.3 min. (Cl ⁻)
Moisture Retention	52 -60%
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.)	30%
Shipping Weight (g/L, approx.)	650 - 685 (41 lb/ft ³)
Specific Gravity	1.07
Temperature Limit	60°C (140°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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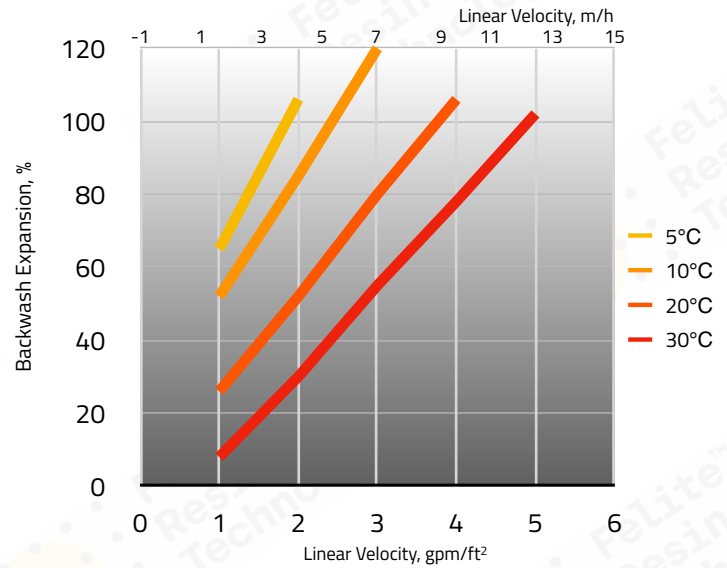
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PRESSURE DROP



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™ 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:

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 reliance on such information.

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