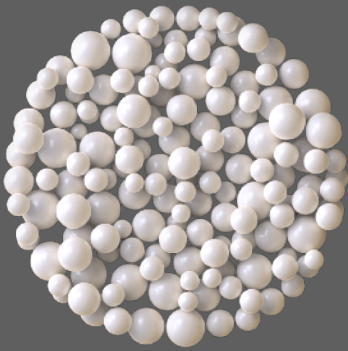


Felite™ Resin

FC100-H



Strong Acid Cation, Macroporous

Standard Mesh Size

H⁺ form

Industrial Grade

Felite™ FC100-H is a premium, highly crosslinked, macroporous strong acid cation exchange resin supplied in the hydrogen form which is designed for water demineralization. It has excellent resistance to both osmotic and thermal shock. Its special sponge-like structure permits higher rates of diffusion of most cations including those of heavy metals and amines and also positively charged organics of higher molecular weight, and facilitates their removal on regeneration.

Felite™ FC100-H is intended for high flow rate and high-temperature polishing applications.

Principal Application:

- Demineralization - Industrial;
- Chemical Processing;

TYPICAL PHYSICAL & CHEMICAL CHARACTERISTICS:

Polymer Structure	Styrene/DVB, Macroporous
Appearance	Spherical Beads
Functional Group	Sulfonic Acid
Ionic form, as shipped	H ⁺
Total Capacity (mmol/ml)	1.8 min. (Na ⁺)
Moisture Retention	54 - 59%
Particle Size Range (mm)	0.3 - 1.2 (≤0.3mm, 1% max.; > 1.2mm, 5% max.)
Uniformity Coefficient (max.)	1.7
Reversible Swelling, Na⁺ → H⁺ (max.)	7%
Shipping Weight (g/L, approx.)	740 - 775 (48 lb/ft ³)
Specific Gravity	1.18
Temperature Limit	150°C (300°F)
Stability, pH Range	0 - 14

PACKAGING:



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



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



Asia Pacific

Yancheng, Jiangsu, China
sales@felitecn.com

America

San Gabriel, CA, USA
sales@felitecn.com

Europe

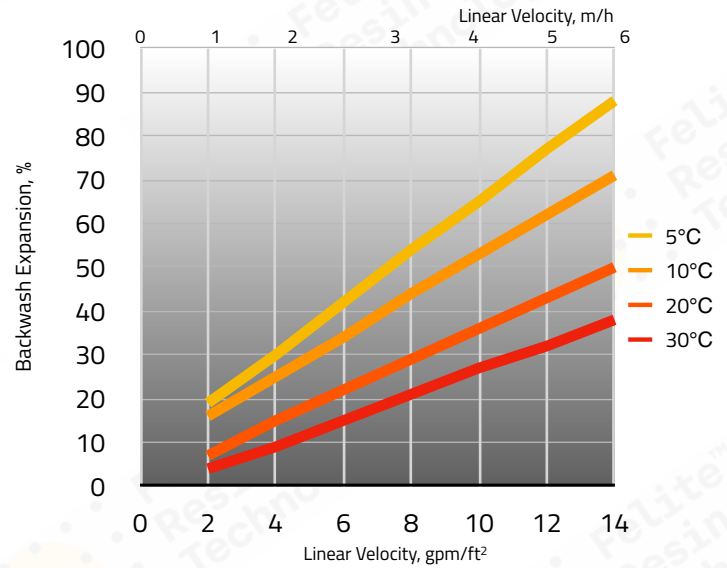
Cluj Napoca, Romania
sales@felitecn.com



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™ FC100 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™ FC100 resin, as a function of service flow rate and water temperature. Figure 2 shows the bed expansion of Felite™ FC100 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 - 170 BV*/h 5 - 120 m/h		
Regeneration			
- Regenerant	HCl	H ₂ SO ₄	NaCl
- Level (g/L)	50 - 150	50 - 200	80 - 400
- Concentration (%)	4 - 10	1 - 5	10
- Minimum Contact Time	30 minutes		
- Slow Rinse	2 BV* at regeneration flow rate		
- Fast Rinse	2 - 4 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.

Asia Pacific

Yancheng, Jiangsu, China
sales@felitecn.com

America

San Gabriel, CA, USA
sales@felitecn.com

Europe

Cluj Napoca, Romania
sales@felitecn.com

