

Felite™ FC110-H is a 10% crosslinked gel strong acid cation resin with standard mesh size range, supplied in hydrogen form. It is primarily used in the cation stage of demineralization plants use in industrial water treatment employing coflow regeneration. Its standard beads size distribution gives optimum operating capacity with minimum leakages of ions and also minimum pressure drop across the resin bed.

Felite™ FC110-H can be regenerated with mineral acids (hydrochloric or sulphuric acids).

Principal Application:

- Demineralization;
- Cation Component in Mixed Bed;

TYPICAL PHYSICAL & CHEMICAL CHARACTERISTICS:

Polymer Structure	Styrene/DVB, Gel		
Appearance	Spherical Beads		
Functional Group	Sulfonic Acid		
lonic form, as shipped	10g) H+		
Total Capacity (mmol/ml)	2.2 min. (Na+)		
Moisture Retention	47 - 50%		
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.)	8%		
Shipping Weight (g/L, approx.)	770 - 810 (52 lb/ft³)		
Specific Gravity	1.22		
Temperature Limit	130°C (265°F)		
Stability, pH Range	0 - 14		

PACKAGING:

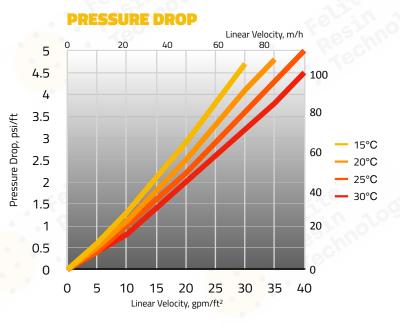


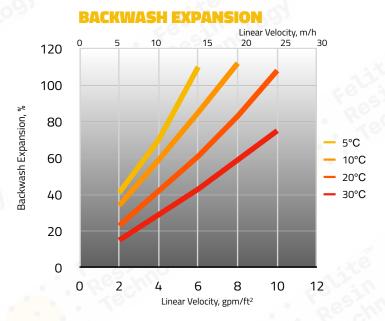
25 Litres / 1 cu.ft PE Bag; 48 / 42 Bags Per Pallet; 20 Pallets Per 20ft Container



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







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™ FC110 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™ FC110 resin, as a function of service flow rate and water temperature. Figure 2 shows the bed expansion of Felite™ FC110 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.

SUGGES	TED OF	PERATIP	NG CON	DITIONS:

Minimum Bed Depth		700mm 5 - 40 BV*/h			
Service Flow Rate					
Regeneration					
- Regenerant	НСІ	H ₂ SO ₄	NaCl		
- Level (g/L)	50 - 150	60 - 240	80 - 250		
- Concentration (%)	5 - 8	0.7 - 6	10		
- Flow Rate (BV/h)	2 - 5	2 - 20	2 - 8		
- Minimum Contact Time		30 minutes			
- Slow Rinse	2 B\	2 BV* at regeneration flow rate			
- Fast Rinse	2 -	2 - 4 BV* at service flow rate			

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

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