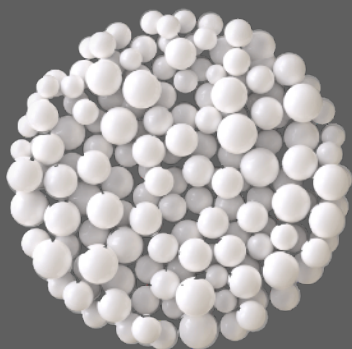


# Felite™ Resin

## FA301-CG



Weak Base Anion, Macroporous

Coarse Mesh Size

Free Base form

Industrial Grade

Felite™ FA301-CG is an extremely durable high capacity, shock resistant, tertiary amine macroporous weak base anion exchange resin with a special coarse mesh size. It is primarily designed for effective recovery of aurocyanide complexes obtained from the alkaline cyanide processing of gold ores.

Profiting from properly tailored tunctionahty the resin has superior selectivity for gold against the basic metals exiting in pregnant solution. Felite™ FA301-CG shows high resistance to osmotic and thermal shock and the mechanical attrition experienced in resin-in pulp applications for the recovery of gold.

### Principal Applications:

Gold Recovery;

### TYPICAL PHYSICAL & CHEMICAL CHARACTERISTICS:

<b>Polymer Structure</b>	Styrene/DVB, Macroporous
<b>Appearance</b>	Spherical Beads
<b>Functional Group</b>	Tertiary Amine
<b>Ionic form, as shipped</b>	Free Base
<b>Total Capacity (mmol/ml)</b>	1.45 min. (FB)
<b>Moisture Retention</b>	51 - 58%
<b>Particle Size Range (mm)</b>	0.8 - 1.6 (≤0.3mm, 1% max.; > 1.6mm, 2% max.)
<b>Uniformity Coefficient (max.)</b>	1.5
<b>Reversible Swelling, FB → Cl<sup>-</sup> (max.)</b>	25%
<b>Shipping Weight (g/L, approx.)</b>	645 - 675 (40 lb/ft <sup>3</sup> )
<b>Specific Gravity</b>	1.04
<b>Temperature Limit</b>	60°C (140°F)
<b>Stability, pH Range</b>	0 - 14

### PACKAGING:



25 Litres / 1 cu.ft PE Bag;  
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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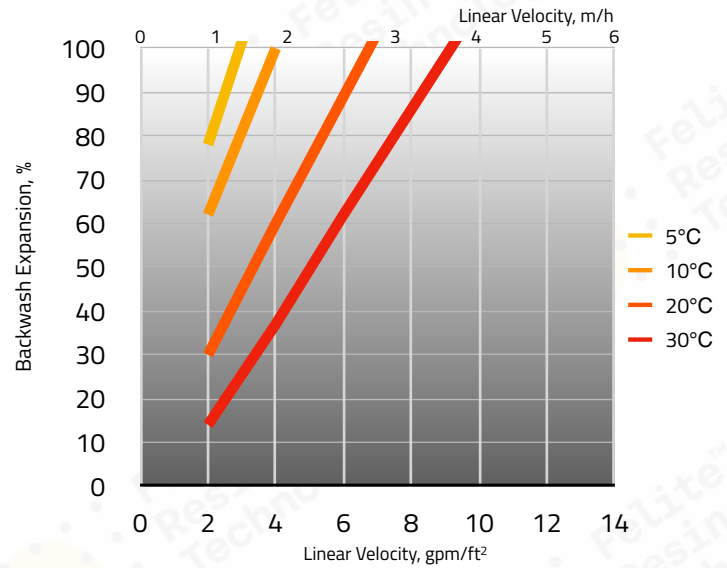
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## PRESSURE DROP



## 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™ FA301 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™ FA301 resin, as a function of service flow rate and water temperature. Figure 2 shows the bed expansion of Felite™ FA301 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>	5 - 40 BV*/h		
<b>Regeneration</b>			
- Regenerant	NaOH	NH <sub>3</sub>	Na <sub>2</sub> CO <sub>3</sub>
- Level (g/L)	120	150	200
- Concentration (%)	2 - 4	2 - 6	5 - 8
- 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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