Product Data Sheet

Relite™ JA310

Relite™ JA310 is a highly porous type weakly basic anion exchange resin. It has tertiary amine functionality with high regeneration efficiency. A wide range of applications, especially in a field of removal of organic substances, pretreatment of raw waters containing organic foulants, deionization and decolorization of starch hydrolysates, is recommended.

Product

Grade Name	Relite™ JA310
Type	Weak Base Anion
Matrix	Styrene-DVB, Highly Porous
Functional Group	Tertiary Amine
Ionic Form	Free Base

Specification

Whole Bead Count	-	90 min.
Total Exchange Capacity	meq/mL	1.45 min.
Water Content	%	51 - 61
Particle Size Distribution on 1180 µm	%	5 max.
Particle Size Distribution thr. 300 µm	%	1 max.
Effective Size	mm	0.45 min.
Uniformity Coefficient	-	1.6 max.

Typical Properties

Shipping Density	g/L	630
Mean Particle Size	µm	710
Particle Density	g/mL	1.05
Total Swelling (FB to Cl^-)	%	17

Recommended Operating Conditions

Maximum Operating Temperature	°C	100
Operating pH Range		0 - 9
Minimum Bed Depth	mm	800
Service Flow Rate	m/h	10 - 40
Regenerant		NaOH
Regenerant Concentration	%	NaOH 1 - 4
Regenerant Level	% of ionic load	120
Regenerant Flow Rate	m/h	2 - 6
Total Rince Requirement	BV	5 - 10

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Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of Relite™ JA310 resin in normal down flow operation is shown in the graphs below.

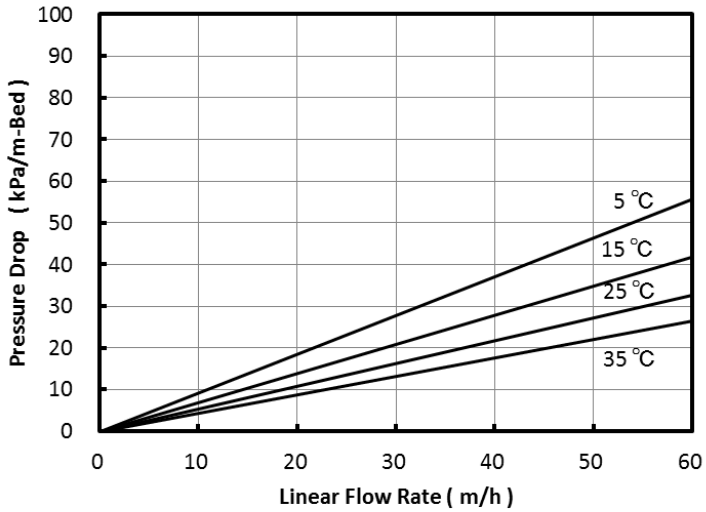

Fig. 1 Pressure Drop of JA310

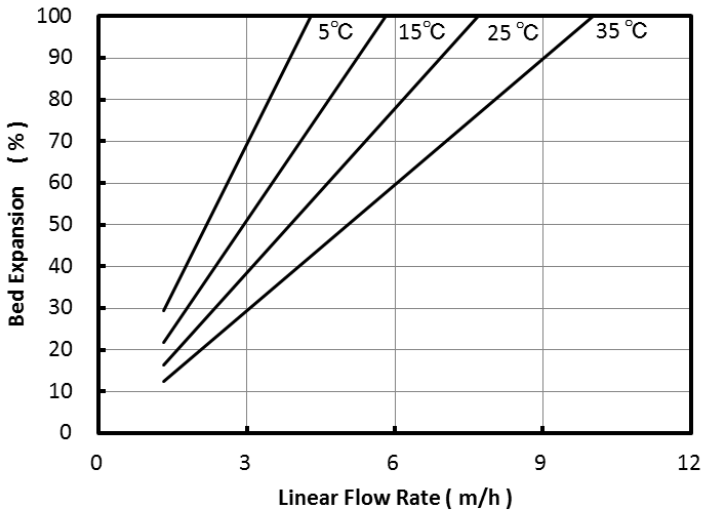

Fig. 2 Bed Expansion of JA310

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