

# Relite™ JA300

Relite™ JA300 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™ JA300
Type	Weak Base Anion
Matrix	Styrene-DVB, Highly Porous
Functional Group	Tertiary Amine
Ionic Form	Free Base

## Specification

Water Content	%	47 - 55
Total Capacity	meq/mL	1.5 min.
Strong Base Capacity	%	25 max.
Non spherical beads	%	5 max.
Particle Size Distribution on 1200 $\mu$ m	%	5.0 max.
Particle Size Distribution thr. 300 $\mu$ m	%	1.0 max.
Effective Size	mm	0.40 - 0.55
Uniformity Coefficient	-	1.7 max.

## Typical Properties

Particle Density	g/mL	1.04
Total Swelling (FB to Cl <sup>-</sup> )	%	24

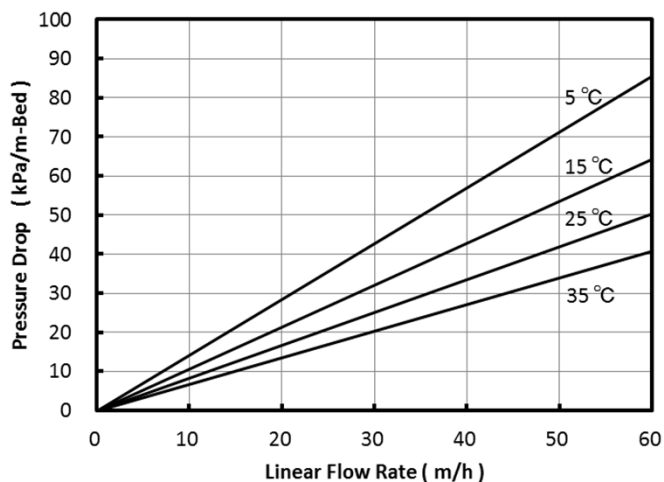
## Recommended Operating Conditions

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

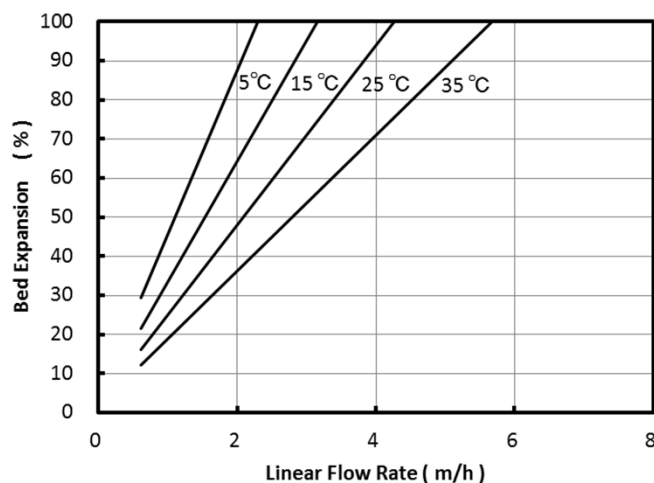
1 BV(Bed Volume)=1 m<sup>3</sup>/m<sup>3</sup>-resin

## Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of Relite™ JA300 resin in normal down flow operation is shown in the graphs below.



**Fig. 1 Pressure Drop of JA300**



**Fig. 2 Bed Expansion of JA300**

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