

IONAC C 267

IONAC C 267 is a premium grade strongly acidic, gel-type cation exchange resin, based on styrene-DVB copolymer. **IONAC C 267** is especially suited for the cation removal step in high purity water applications. These heterodispersed resin beads are chemically and osmotically very stable when compared to standard cation exchange resins. **IONAC C 267** is produced to meet the requirements of paragraph 173.25 of the Food Additives Regulations of the F.D.A. **IONAC C 267** is also available in sodium form (**IONAC C-249**).

IONAC C 267 applications:
deminalization, mixed bed / condensate polishing

Physical and chemical properties

		US Units			International Units		
Ionic form as shipped			H ⁺			H ⁺	
Screen size	> 90%	US mesh	16-50		mm	0.3-1.2	
Uniformity coefficient		max.	1.6		max.	1.6	
Shipping weight		lbs/ft ³	50.0		g/l	800	
Density					g/ml	1.25	
Water retention		% weight	49 - 54		%	49 - 54	
Total capacity, min.		kgr CaCO ₃ / ft ³	41.5		eq/l	1.9	
Volume change	H ⁺ >> Na ⁺	max. %	-7		max. %	-7	
Stability	temperature range	°F	14 - 280		°C	-10 - 140	
	pH range		0 - 14			0 - 14	
Storability	of product	min years	2		min. years	2	
	temperature range	°F	43 - 104		°C	1 - 40	

MSDS: Material Safety Data Sheets are available for all Sybron/Bayer products. The MSDS contain pertinent information that may be required to ensure safe handling and use of our products. It is recommended that copies of MSDS be obtained by calling 1-800-678-0020 or 1-800-662-2927.

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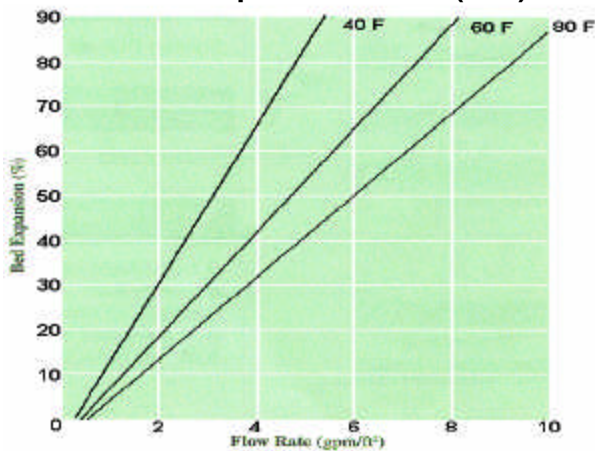
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Recommended Operating Parameters

		US Units		International Units	
Operating Temperature		max. °F	280	max. °C	140
Operating pH-range			0 - 14		0 - 14
Bed Depths		min. ft	2	min. mm	610
Pressure Drop			see chart		see chart
Max. adm. Pressure drop		psi	28	kPa	200
Surface Flow Rate	exhaustion	gpm/ft ²	2 - 25	m/h	5 - 60
	backwash	gpm/ft ²	see chart	m/h	see chart
Bulk Flow Rate	exhaustion	gpm/ft ³	1 - 6	BV/h	8 - 48
Bed Expansion		approx. %	50 - 65	ca. %	50 - 65
Freeboard	% of bed depth	%	65 - 75	%	65 - 75
Regenerant	type		HCl H ₂ SO ₄		HCl H ₂ SO ₄
	level	lb/ft ³	2 - 10 2.5 - 10	ca. g/l	32-160 40-160
	concentration	%	4 - 10 0.7- 6	%	4-10 0.7-6
Surface Flow Rate	regeneration	gpm/ft ²	0.4 - 4 1 - 4	m/h	1 - 10 3 - 10
	rinsing, slow / fast	gpm/ft ²	0.4 - 4 / 2 - 25	m/h	1 - 15 / 5 - 60
Bulk Flow Rate	regeneration	gpm/ft ³	0.3 - 1 0.5 - 4	BV/h	2.5 - 8 4 - 32
	rinsing, slow / fast	gpm/ft ³	0.3 - 4 / 1 - 6	BV/h	2.5 - 32 / 8 - 48
Rinsing Water Requirement	slow / fast	gals./ft ³	7 - 20 / 8 - 30	ca. BV	1 - 2.5 / 1 - 4

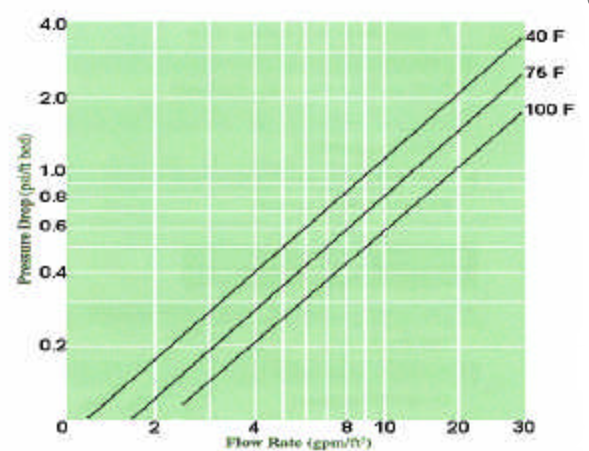
Bed Expansion Curve (Na)



$$^{\circ}\text{C} = 5 / 9 (^{\circ}\text{F} - 32)$$

$$\text{m} = \text{ft} * 0.3048$$

Pressure Loss Curve



$$\text{kPa} = \text{psi} * 7.03$$

$$\text{m} / \text{hr} = \text{gpm} / \text{sq.ft.} * 2.44$$

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