

Ionac SR 7

***IONAC SR 7** is an advanced macroporous, anion ion exchange resin with more than three times the selectivity for nitrate ions compared to the best available products. It is tested and certified by NSF International under ANSI/ NSF 61. SR 7 has a new chemistry that prevents "nitrate dumping" against high sulfate backgrounds. **SR 7** is characterized by a high degree of porosity, very stable structure and limited reversible swelling, which results in a kinetically superior and durable resin.

Ionac SR 7 applications:

nitrate removal

Physical and chemical properties

			US Units		International Units
Ionic form as shipped			Cl		Cl
Bead size	> 90%	US mesh	16 - 50	mm	0.3 - 1.25
Effective size		mm.	0.47 +- 0.06	mm	0.47 +- 0.06
Shipping weight		lbs/ft ³	42	g/l	670
Density				g/ml	1.02
Water retention		% weight	48 - 52	%	48 - 52
Total capacity, min.		kgr CaCO ₃ / ft ³	18	eq/l	0.8
Volume change	Cl ⁻ >> NO ₃ ⁻	max. %	5	max. %	5
Stability	temperature range	°F	34 - 212	°C	1 - 100
	pH range		0 - 14		0 - 14
Storability	of product	min years	2	min. years	2
	temperature range	°F	34 - 104	°C	1 - 40

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

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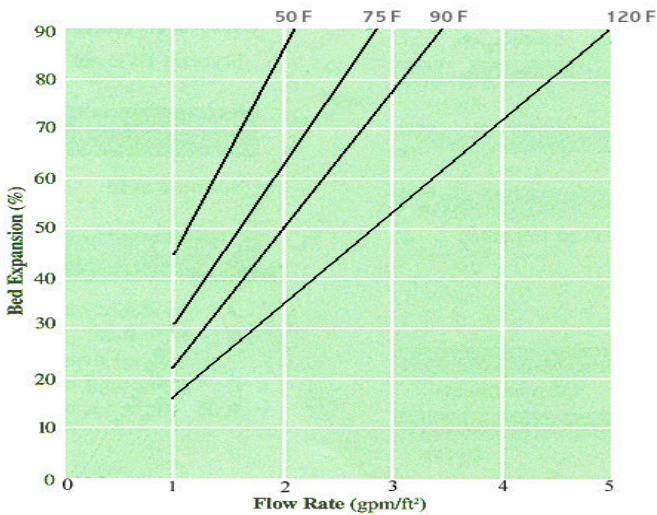
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Recommended Operating Parameters

		US Units		International Units	
Operating Temperature		max. °F	160	max. °C	70
Operating pH-range			5 - 10		5 - 10
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 - 10	m/h	5 - 24
	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		%	50 - 65	ca. %	50 - 65
Freeboard	% of bed depth	%	90 - 100	%	90 - 100
Regenerant	type		NaCl		NaCl
	level	lb/ft ³	5 - 20	ca. g/l	80 - 320
	concentration	%	5 - 12	%	5 - 12
Surface Flow Rate	regeneration	gpm/ft ²	0.4 - 4	m/h	1 - 10
	rinsing, slow / fast	gpm/ft ²	0.4 - 4 / 2 - 10	m/h	1 - 10 / 5 - 24
Bulk Flow Rate	regeneration	gpm/ft ³	0.25 - 1	BV/h	2 - 8
	rinsing, slow / fast	gpm/ft ³	0.25 - 1 / 1 - 6	BV/h	2.5 - 32 / 8 - 48
Rinsing Water Requirement	slow / fast	gals./ft ³	7 - 15 / 25 - 60	ca. BV	1 - 2 / 3 - 8

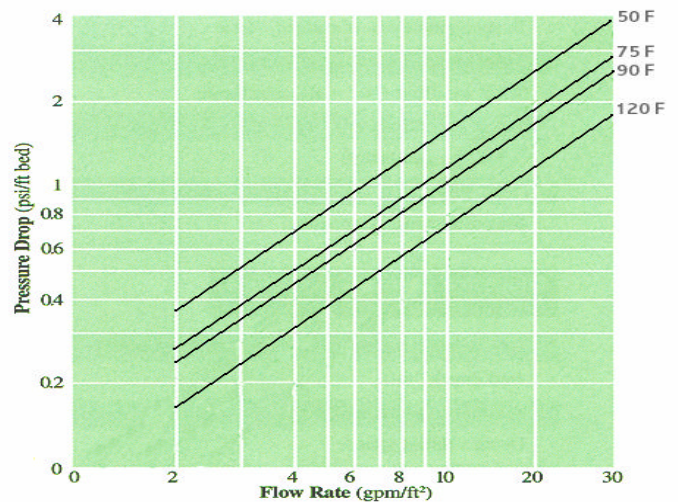
Bed Expansion Curve



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

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

Pressure Loss Curve



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

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

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