

IONLITE A-659F

STRONG BASE ANION EXCHANGE RESIN,
Cl⁻ FORM

IONLITE A-659F is a strong base, gel type, standard crosslinked polystyrene, sodium form, food grade anion resin which has high total capacity, excellent chemical and mechanical stability.

IONLITE A-659F is especially used in demineralization process for industrial water treatment.

PHYSICAL & CHEMICAL PROPERTIES

Polymer Structure		Crosslinked Polystyrene
Functional Group		-N-(CH ₃) ₃ ⁺
Ionic Form As Shipped		Cl ⁻
Structure		gel type
Appearance		light yellow
Total Exchange Capacity, Volume	meq/ml	min. 1.4
Water Retention	%	42 - 48
Solubility		insoluble in all common solvents
Bulk Weight	±5%	700 g/l
Bead Size (≥ 95%)	mm	0.40 - 0.90
Effective Size	mm	0.50 - 0.70
Uniformity Coefficient		max. 1.4
Roundness After Wearing	%	min. 90
Total Reversible Swelling (Cl ⁻ →OH ⁻)	%	≤ 30
Standard Packing		In 25 liter or 20 kg per bag

SUGGESTED OPERATING CONDITIONS

Minimum Bed Depth	mm	750
Operating pH Range		1 - 14
Max. Operating Temperature	°C	≤ 80 (Cl ⁻) ≤ 60 (OH ⁻)
Standard Operating Flow Rate	m/hr	10 - 45
Regenerant		NaOH
Concentration	%	3 - 5
Consumption	regenerant vol. : resin vol.	2 - 3 : 1
Flow Rate	m/hr	4 - 6
Contact Time	minute	approx. 40 - 60
Slow Rinse		
Flow Rate		@Regen Flow Rate
Volume	BV	1 - 2
Fast Rinse		
Flow Rate		@Service Flow Rate
Volume	BV	3 - 5
Max. Turbidity	NTU	5.0
Max. Free Chlorine	ppm	0.1
Max. Iron and Heavy Metals	ppm	0.1

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FIGURE 1 : Backwash Data

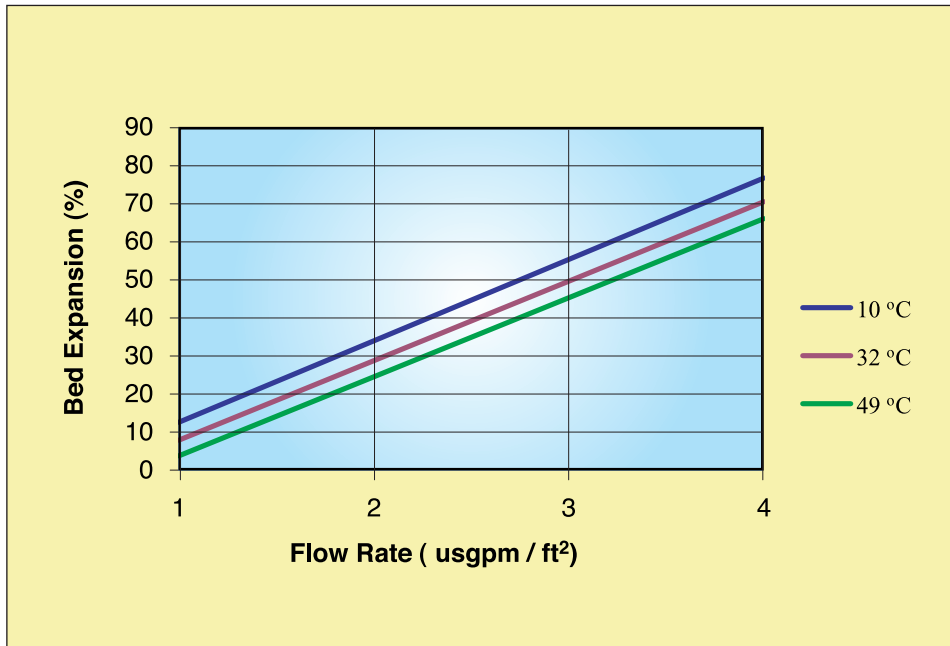


FIGURE 2 : Pressure Drop Data

