

Ions exchanging resin

Résine cationique forte alimentaire KW8 (forme Na)



IONS EXCHANGING RESIN

RÉSINE CATIONIQUE FORTE ALIMENTAIRE KW8

- KW8 is a cationic resin of high exchange capacity with excellent kinetic and good physical, chemical and thermal stability.
- Specially designed for softened water production applications, it is delivered in Na form ready for employment.
- It has an excellent mechanical resistance ensuring a low pressure drop.



PHYSICAL AND CHEMICAL CHARACTERISTICS

Physical and Chemical appearance	Translucent spherical balls of white to amber color
Matrix	Styrène-DVB gel
Functionnal group	Sulfonic acid
Ionic form as shipped	Na ⁺ form
Total exchange capacity	1.9 eq/L
Maximum particle size	0.42 to 1.25 mm
Average particle size	0.45 +/- 0.55 mm
Water retention	45 to 50 %
Whole balls not broken	90 à 100 %
Color to the packaging	max. APHA 25
Stability at H	pH 0 to 14
Total volume variation (Ca ⁺⁺ ->Na ⁺)	2 %
Actual density	1.28 g/ml
Shipping weight	820 g/L

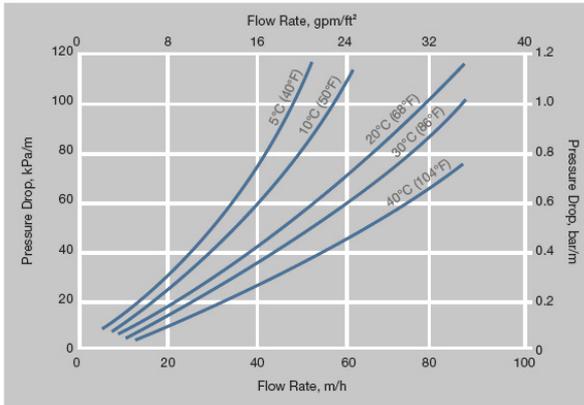
CONDITIONING

Bag of 25 liters.

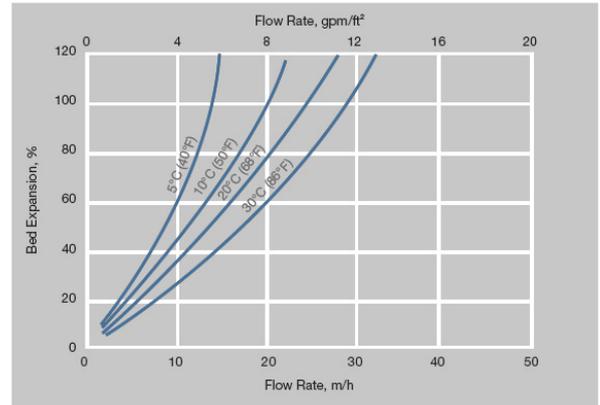
WORKING CONDITIONS

Maximum operating temperature	120°C
pH	0 to 14
Minimum height of the resin bed	700 mm
Flow rates/Quick rinse	8 to 50 BV/h
Backwash Expansion	50 to 75%
NaCl concentration for regeneration	8 to 15%
Regeneration rate	30 to 300 g/l
Brine flow	5 to 8 l/h/l
Slow rising	1 to 3 times the resin volume at the brine
Speed rinse	3 to 6 times the resin volume at the service flow
Turbidity of water	< 5.0 NTU
Free chlorine	< 1.0 ppm

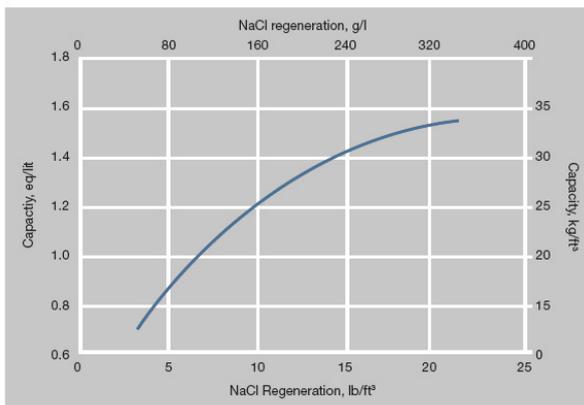
Pressure loss



Backwash expansion



Exchange capacity depending brinig rate



Hardness capacity depending brining rate

