

Ions exchanging resin

Résine de décarbonatation cation faible macroporeux KWH (forme H⁺)



IONS EXCHANGING RESIN

RÉSINE DE DECARBONATATION FAIBLE PRETE A L'EMPLOI

- Ready-to-use and regenerable ion exchange resin of low macroporous cation type
- High purity resin offering great mechanics.
- Its remarkable physical properties grant it a superior capacity on temporary hardness in particular in the cartridges filters.
- KWH resin is particularly suitable for decarbonisation of water in the food industry.



PHYSICAL AND CHEMICAL CHARACTERISTICS

Physical aspect and appearance	Cream colored spherical balls
Matrix	macroporous - Styrène-DVB
Functional Group	carboxylic acid
Ionic form as shipped	H ⁺ form
Maximum particle size	0.42 to 1.25 mm
Coefficient of uniformity	1.60 max
Actual density	1.20 g/ml
Shipping weight	750 g/L
Water retention	45 to 50 %
Total exchange Capacity (Cl ⁻ form)	4.20 eq/L
Total volume variation (Cl ⁻ -> OH ⁻)	8 %
Temperature stability	100°C
pH stability	pH 0 to 14

CONDITIONING

Bag of 25 liters.

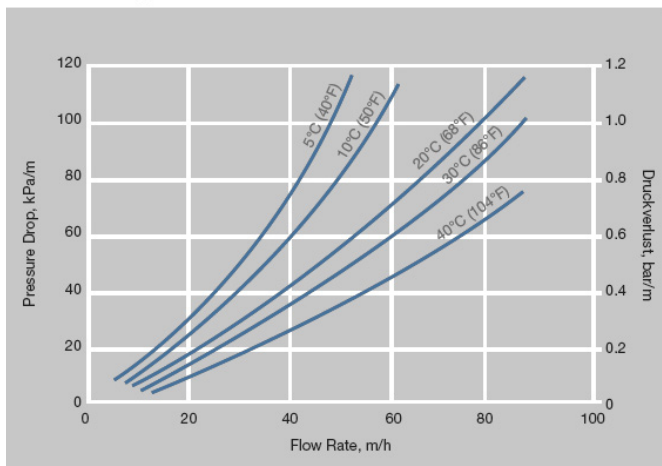
OPERATING CONDITIONS

Minimum height resin bed	700 mm
Servite rate	8 to 50 BV/h
Backwash expansion	50 à 75%

STANDARD REGENERATION PARAMETERS

	HCl	H ₂ SO ₄
Reactive concentration	4 to 6%	0.5 to 0.8%
Regeneration rate	60 to 80 g/l	80 to 100 g/l
Regeneration flow	4 to 10 Bv/h	10 to 20 Bv/h
Contact time with regenerant	30 to 60 min	30 to 60 min
Slow rinse rate	4 to 10 Bv/h	10 to 20 Bv/h
Volume of slow rinse water	2 Bv	2 Bv
Fast rinse rate	10 to 30 Bv/h	10 to 30 Bv/h
Volume of quick rinse water	4 to 10 Bv	4 to 10 Bv

Pressure loss



Expansion of the resin bed in backwash

