

food

RESINDION RESINS FOR FOOD TREATMENTS

TDS110315

DIAION PK208 - Strongly Acidic Resin

TDS 110315

DIAION PK208

DIAION PK208 is a porous type strongly acidic cation exchange resin.

The porous structure of this resin allows very high exchange kinetics and excellent osmotic shock resistance.

Its composition complies with the existing food processing rules and regulations.

The main applications of this product are waters and organic solutions decationization and softening, hot process softening, condensate treatment and catalysis.

TYPICAL CHARACTERISTICS

Matrix	:	Porous copolymer styrene-DVB
Functional group	:	Sulphonic
Colour and physical form	:	Light brown opaque beads
Particle size range	:	0.3 ÷ 1.18 m m
Effective size	:	0.40 min m m
Uniformity Coefficient	:	1.6 max
Ionic form at the delivery	:	Na ⁺
Volume change	:	+ 9 max % Na ⁺ → H ⁺ form
Neutral Salt Splitting capacity	:	1.2 min eq/l
Water retention	:	58 ÷ 68 %
pH stability range	:	0 ÷ 14
Operating pH range	:	1 ÷ 14
Operating temperature	:	120 max °C
Shipping density	:	765 g/l approx.
Standard packaging	:	25 or 1000 liter bags

RECOMMENDED OPERATING CONDITIONS

Minimum bed depth	:	800	m m
Linear operating flowrate	:	5 ÷ 50	m/h
Backwash expansion	:	50 ÷ 80	%
Regenerants	:	HCl	H ₂ SO ₄ NaCl
Regenerant level range	:	40 ÷ 150	60 ÷ 200 80 ÷ 240 g/l
Concentration range	:	5 ÷ 10	1.5 ÷ 6 5 ÷ 15 %
Slow rinse volume	:	1.5 ÷ 2	BV
Fast rinse volume	:	3 ÷ 5	BV

Resindion S.r.l.

A Subsidiary of  MITSUBISHI CHEMICAL

OPERATING CAPACITY

Operating capacity depends on various parameters, such as inlet composition, endpoint, kinetic load and regenerant level.

In case of need, please contact our TECHNICAL DEPARTMENT.

Fig. 1 BED EXPANSION IN WATER

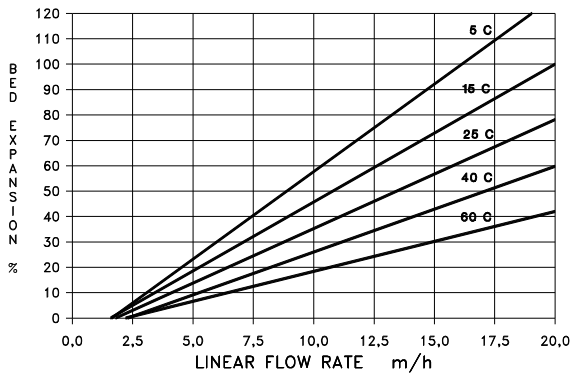
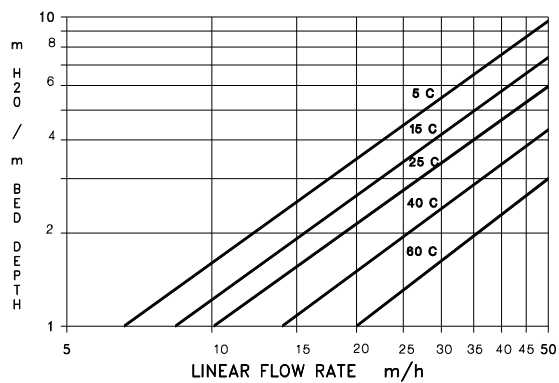


Fig. 2 PRESSURE DROP IN WATER



RECOMMENDED HCl QUALITY FOR REGENERATION (*)	
Suspended solids	0 ppm
Chlorine	10 ppm
Iron	20 ppm
Heavy metals	10 ppm
Sulphates	5000 ppm
(*) Values referred to HCl 100%.	

RECOMMENDED H₂SO₄ QUALITY FOR REGENERATION (*)		
Purity	95	%
Suspended solids	0	ppm
Iron	50	ppm
Arsenic	5	ppm
Lead	5	ppm
(*) Values referred to H ₂ SO ₄ 100%.		

RECOMMENDED NaCl QUALITY FOR REGENERATION	
Purity	97 % min
Moisture	2 % max
Suspended solids	0 %
Ca ⁺⁺ + Mg ⁺⁺	0.5 % max
Sulphates	1 % max
Soluble iron	0 %
Alkalinity	0.001 max ppm CaCO ₃