

food

RESINDION RESINS FOR FOOD TREATMENTS

PDS02111

RELITE EXC14 - Strongly Acidic Resin

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RELITE EXC14

RELITE EXC14 is a gel type strongly acidic cation exchange resin characterized by a very high DVB content.

This resin shows a very good resistance to oxidation and excellent resistance to osmotic shocks, important factors when treating solutions of high concentration and viscosity.

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

TYPICAL CHARACTERISTICS

Matrix	:	Gel copolymer styrene-DVB		
Functional group	:	Sulphonic		
Colour and physical form	:	Yellowish brown transparent 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	
Total exchange capacity	:	2.2 min	eq/l	
Water retention	:	41 ÷ 48	%	
pH stability range	:	0 ÷ 14		
Operating pH range	:	1 ÷ 14		
Operating temperature	:	120 max	°C	
Shipping density	:	840	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

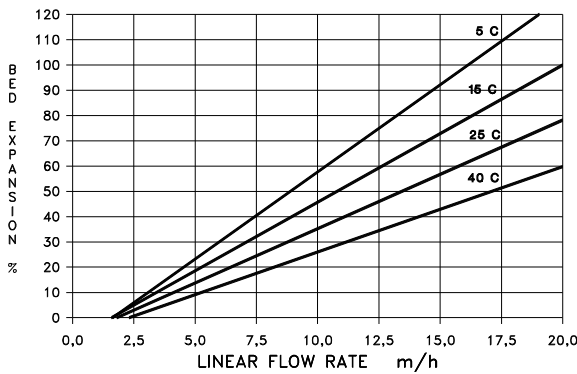
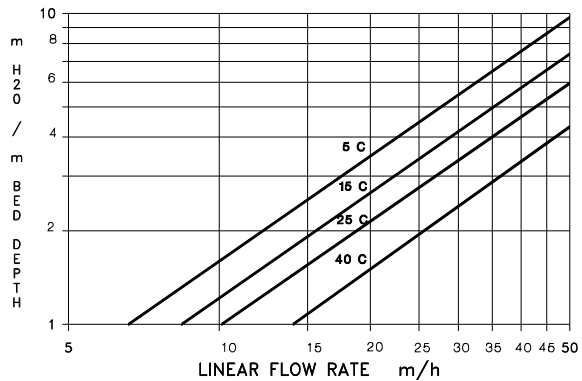


Fig. 2 PRESSURE DROP IN WATER



RECOMMENDED HCl QUALITY FOR REGENERATION (*)	RECOMMENDED H₂SO₄ QUALITY FOR REGENERATION (*)	RECOMMENDED NaCl QUALITY FOR REGENERATION
Suspended solids 0 ppm	Purity 95 %	Purity 97 % min
Chlorine 10 ppm	Suspended solids 0 ppm	Moisture 2 % max
Iron 20 ppm	Iron 50 ppm	Suspended solids 0 %
Heavy metals 10 ppm	Arsenic 5 ppm	Ca ⁺⁺ + Mg ⁺⁺ 0.5 % max
Sulphates 5000 ppm	Lead 5 ppm	Sulphates 1 % max
		Soluble iron 0 %
		Alkalinity 0.001 max
		ppm CaCO ₃
(*) Values referred to HCl 100%.	(*) Values referred to H ₂ SO ₄ 100%.	