

water

RESINDION RESINS FOR WATER TREATMENTS

TDS03018

Product Information

RELITE CF - Strongly Acidic Resin

TDS 03018

RELITE CF

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

This resin shows a very high operating capacity, excellent exchange kinetics and mechanical stability.

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

RELITE CF can be supplied under request in calibrated screen grades to meet all the standardized application systems (co-current, counter-current, fluidized beds, layered beds, continuous processes, etc.).

The main applications of this product are water demineralization and industrial softening.

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	:	+ 8 max	% Na ⁺ → H ⁺ form	
Total exchange capacity	:	2.0 min	eq/l	
Water retention	:	45 ÷ 51	%	
Chemical stability	:	Stable in the whole pH range		
Thermal stability	:	120 max	°C	
Shipping density	:	840	g/l approx.	
Standard packaging	:	25 o 1000	liter bags	

RECOMMENDED OPERATING CONDITIONS

Operating pH range	:	1 ÷ 14			
Operating temperature range	:	5 ÷ 100	°C		
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

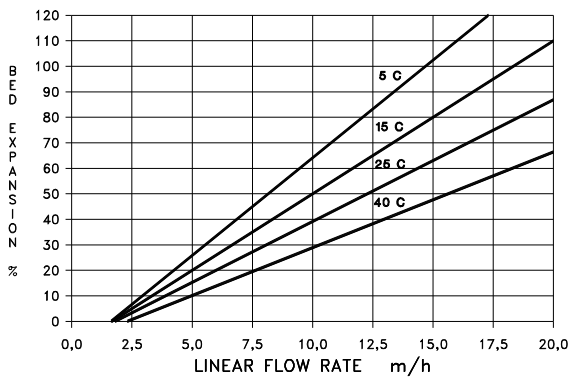
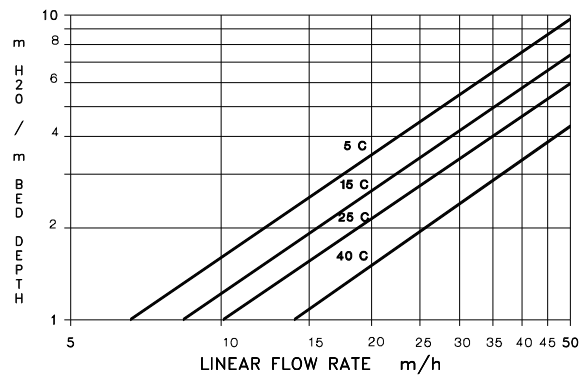


Fig. 2 PRESSURE DROP IN WATER



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