

# water

## RESINDION RESINS FOR WATER TREATMENTS

TDS 12073

RELITE 2AS - Strongly Basic Resin

TDS 12073

### RELITE 2AS

RELITE 2AS is a "TYPE II" porous type strongly basic anion exchange resin.

Its main characteristics are a very high capacity, a good exchange kinetics and resistance to mechanical and osmotic shocks. Its basicity is lower than that of RELITE 3AS, therefore its regeneration efficiency and operating capacity are significantly higher. The porous structure allows a better reversibility in front of organic fouling.

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

RELITE 2AS 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 application of this product is the water and organic solutions demineralization.

### TYPICAL CHARACTERISTICS

Matrix	:	Porous copolymer styrene-DVB	
Functional group	:	Dimethylethanolamine	
Colour and physical form	:	Light yellowish/white 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	:	Cl <sup>-</sup>	
Volume change	:	+ 12 max	% Cl <sup>-</sup> → OH <sup>-</sup> form
Total exchange capacity	:	1.2 min	eq/l
Water retention	:	49 ÷ 55	%
Chemical stability	:	stable in the whole pH range	
Thermal stability	:	40 °C max	(OH <sup>-</sup> ); 60 °C max (Cl <sup>-</sup> )
Shipping density	:	700	g/l approx.
Standard packaging	:	25 or 1000	liter bags

### RECOMMENDED OPERATING CONDITIONS

Operating pH range	:	1 ÷ 14	
Operating temperature range	:	5 ÷ 40	°C
Minimum bed depth	:	800	m m
Linear operating flowrate	:	5 ÷ 50	m/h
Backwash expansion	:	50 ÷ 80	%
Regenerant	:	NaOH	
Regenerant level range	:	50 ÷ 150	g/l
Concentration range	:	3 ÷ 6	%
Slow rinse volume	:	1.5 ÷ 2	BV
Fast rinse volume	:	5 ÷ 10	BV

**Resindion** S.r.l.

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## 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

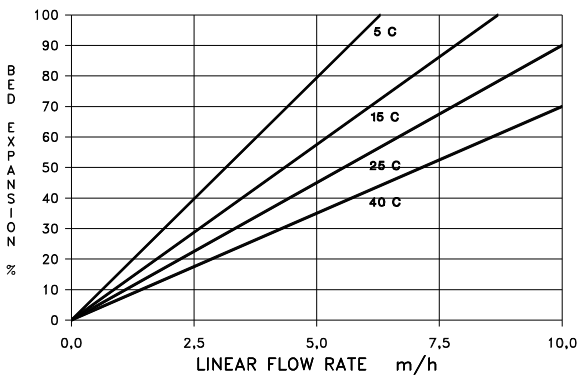
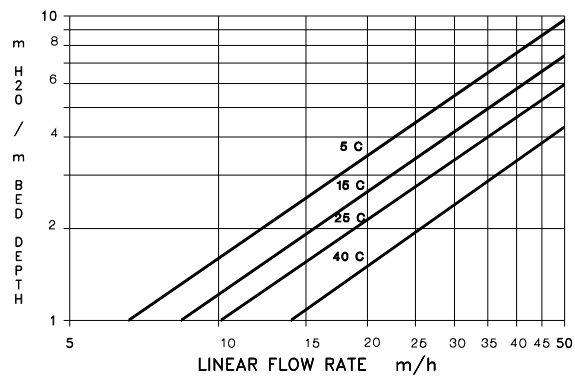


Fig. 2 PRESSURE DROP IN WATER



<b>RECOMMENDED NaOH QUALITY FOR REGENERATION (*)</b>			
Silica	10 ppm	Sodium carbonate	0.5 %
Iron	10 ppm	Sodium chloride	0.5 %
Mercury	2 ppm	Sodium sulphate	0.2 %
Heavy metals	5 ppm	Hardness	0 ppm
Chlorates	10 ppm as O <sub>2</sub>	Suspended solids	0 ppm
(*) Values referred to NaOH 100%.			