

# food

## RESINDION RESINS FOR FOOD TREATMENTS

TDS 05025

### Product Information

RELITE RAM1/M - Weakly Basic Resin

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## RELITE RAM1/M

RELITE RAM1/M is a highly porous type weakly basic anion exchange resin characterised by a highly uniform screen grade distribution, aspect granting a homogeneously distributed exchange kinetics across the whole resin bed.

Its main characteristics are a high operating capacity combined with a good exchange kinetics and a great resistance to physical, thermal and osmotic shocks.

RELITE RAM1/M is supplied in a properly calibrated screen grade so as to be applied in demineralization and decolorization of sugar solutions (sucrose and starch syrups), gelatin, glycerin and organic acids.

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

### TYPICAL CHARACTERISTICS

Matrix	:	Highly porous copolymer styrene-DVB
Functional group	:	Tertiary amine
Colour and physical form	:	Light yellowish opaque beads
Particle size range	:	0.6 ÷ 0.8 mm
Mean particle size	:	0.7 mm min
Uniformity Coefficient	:	1.1 max
Ionic form at the delivery	:	Free Base
Volume change	:	+ 25 % max (F.B. --> Cl <sup>-</sup> form)
Total exchange capacity	:	1.5 eq/l min
Water retention	:	56 ÷ 62 %
Chemical stability	:	stable in the whole pH range
Thermal stability	:	100 °C max (F.B.)
Shipping density	:	620 g/l approx.
Standard packaging	:	25 or 1000 liter bags

### RECOMMENDED OPERATING CONDITIONS

Operating pH range	:	0 ÷ 9
Operating temperature range	:	5 ÷ 80 °C
Minimum bed depth	m m	: 800
Linear operating flowrate	m/h	: 5 ÷ 50
Backwash expansion	:	50 ÷ 80 %
Regenerants	:	NaOH      NH <sub>4</sub> OH
Regenerant level range	g/l	: 60 ÷ 80      50 ÷ 70
Concentration range	%	: 2 ÷ 6      2 ÷ 4
Slow rinse volume	BV	: 1.5 ÷ 2      1.5 ÷ 2
Fast rinse volume	BV	: 4 ÷ 8      4 ÷ 8

**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

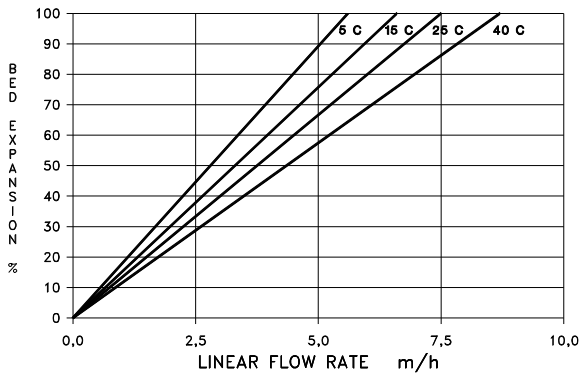
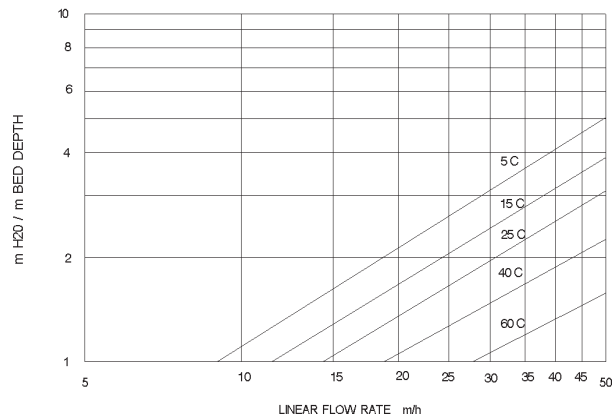


Fig. 2 PRESSURE DROP IN WATER



<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%.			