

food

RESINDION RESINS FOR FOOD TREATMENTS

TDS04031

RELITE SP490 - Synthetic Adsorbent

TDS 04031

RELITE SP490

RELITE SP490 is a highly porous synthetic adsorbent based on a methacrylic matrix, characterised by a wide pore distribution and a low hydrophobicity degree.

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

APPLICATIONS

- Natural and synthetic dyes removal and recovery
- Antibiotics recovery and purification
- Decolorization of sugar solutions
- Vitamines, enzymes, proteins recovery and purification
- Treatment of waste effluents in the kraft pulp production
- Surfactants removal.

TYPICAL CHARACTERISTICS

| | | |
|--------------------------|---|-------------------------------------|
| Matrix | : | Highly porous copolymer methacrylic |
| Colour and physical form | : | White opaque spherical beads |
| Volume change | : | 1 % max (H ₂ O --> MeOH) |
| Water retention | : | 55 ÷ 65 % |
| Pore volume | : | 1.2 ml/g approx. |
| Surface area | : | 500 m ² /g approx. |
| Pore radius peak | : | 150 ÷ 200 Å |
| Particle size range | : | 0.35 ÷ 0.85 m m |
| Effective size | : | 0.40 mm min |
| Uniformity coefficient | : | 1.6 max |
| Chemical stability | : | stable in the whole pH range |
| Thermal stability | : | 200°C max |
| Specific gravity | : | 1.09 g/ml approx. |
| Shipping density | : | 720 g/l approx. |
| Standard packaging | : | 25 or 1000 liter bags |

RECOMMENDED OPERATING CONDITIONS

| | | |
|-----------------------------|-----|--------------------------|
| Operating pH range | : | 0 ÷ 14 |
| Operating temperature range | : | 5 ÷ 150°C |
| Minimum bed depth | m m | 500 |
| Linear operating flowrate | m/h | 1 ÷ 20 |
| Backwash expansion | % | 50 ÷ 80 |
| Regenerants | : | NaOH Solvents Condensate |
| Regenerant level range | BV | 1 ÷ 2 |
| Concentration range | % | 2 ÷ 4 |
| Slow rinse volume | BV | 1.5 ÷ 2 |
| Fast rinse volume | BV | 4 ÷ 6 |

Resindion S.r.l.

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