

DIAION

TDS 02059

DIAION WA30 - Weakly Basic Resin

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DIAION WA30 is a highly porous type weakly basic anion exchange resin characterized by a high water retention content.

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

DIAION WA30 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 demineralization and decolorization of sugar and starch syrups, purification of formaldehyde, gelatine, glycerin, organic acids and others.

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 : Yellowish-white opaque beads

lonic form at the delivery : Free Base

Volume change : + 30 max % F.B. --> Cl form

Total exchange capacity: 1.5 min eq/I
Water retention: 43 ÷ 55 %

pH stability range : $0 \div 14$ Operating pH range : $0 \div 9$

RECOMMENDED OPERATING CONDITIONS

Minimum bed depth 800 m m Linear operating flowrate 5 ÷ 50 m/h Backwash expansion 50 ÷ 80 % Regenerants NaOH NH, g/l Regenerant level range 40 ÷ 80 20 ÷ 35 Concentration range 2 ÷ 4 2 ÷ 4 Slow rinse volume 1.5 ÷ 2 вv Fast rinse volume ΒV 4 ÷ 8





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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

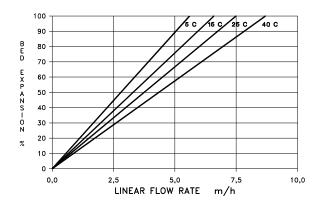
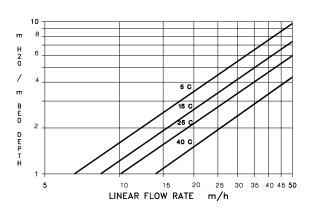


Fig. 2 PRESSURE DROP IN WATER



| RECOMMENDED NaOH QUALITY FOR REGENERATION (*) | | | | |
|---|--------------------------|------------------|-----|-----|
| 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 ₂ | Suspended solids | 0 | ppm |
| (*) Values referred to NaOH 100%. | | | | |