PRODUCT INFORMATION

DYNASPHER WA68UD-F

MACROPOROUS WEAK ANION RESIN

FOOD TREATMENT SOLUTION

DESCRIPTION

DYNASPHER WA68UD-F is a uniform macroporous weak base anion exchange resin with a styrene-DVB copolymer matrix with very high decolorization capacity. The monospheric beads are highly resistant to osmotic shock and chemically stable and show high regeneration efficiency and low pressure drops.
It is mainly used for the de-acidification and demineralization and decolorization of fruit juices and sugar solutions and for the recovery of organic acids.

SYSTEM DESIGN

Co - current / Counter current / Floating bed / Blocked bed

PRINCIPAL APPLICATIONS

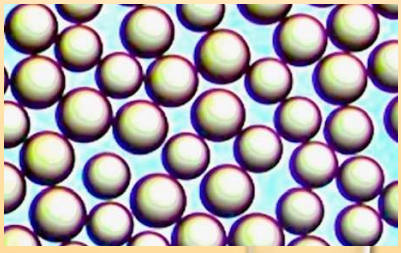
- Fruit juices demineralization
- Fruit juices decolorization
- Fruit juices deacidification
- Liquid sugar
- Milk whey
- Pharmaceutical
- Nutraceutical
- Water

REGULATORY

- F.D.A. – CFR 21 – 173.25
- Codes Alimentarius – Inventory of Processing Aids – CAC/MISC3
- European Resolution AP (97) – 1 regarding the TOC (Total Organic Carbon) realeased according AFNOR method (method T90 – 601)

TYPICAL PACKAGING

- 1 m³ Supersack
- 42 ft³ Supersack



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TYPICAL CHARAPTERISTICS

PHYSICAL CHARAPTERISTIC

Copolymer	Styrene-divinylbenzene
Matrix	Macroporous
Type	Weak anion
Functional Group	Tertiary/Quaternary amine
Physical Form	Beige opaque spherical beads

CHEMICAL CHARAPTERISTICS

Ionic Form as Shipped	FB
Total Exchange Capacity	≥ 1.6 eq/lt
Water Retention	50.0 - 58.0 %

PARTICLE SIZE

Particle size range	0.60 mm ± 0.05 mm
Uniformity Coefficient	≤ 1.1
< 300 µm	≤ 0.1 %
> 1180 µm	≤ 1.0 %

STABILITY

Whole Uncracked Beads	≥ 98 %
Swelling	$Cl^- \longrightarrow OH^-$ - 25% max

DENSITY

Particle Density	1.060 - 1.100 g / ml
Shipping Weight	650 - 750 g / lt

For additional size in formation, please refer to the our Technical Dept.

SUGGESTED OPERATING CONDICTIONS

Termal stability	70 °C FB (158 °F) – 100 °C (212 °F)
Chemical stability	0 - 9
Service Cycle	0 - 14
Minimum bed depth	800 mm

For additional praticle size information regarding recommended minimum bed depth, operating conditions, and regeneration conditions for Layered or Mixed bed, please refer to our tecnical dept.

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HYDRAULIC CHARACTERISTICS

Estimated bed expansion of DYNASPHER WA68UD-F as a function of backwash flowrate and temperature is show in figure 1.

Estimated pressure drop for DYNASPHER WA68UD-F as a function of service flowrate and temperature is show in figure 2.
These pressure drop expectations are valid at the start of the service run with clean water and well – classified bed.

Figure 1: Back wash expansion
Temperature = 5 °C - 40 °C (41 °F - 104 °F)

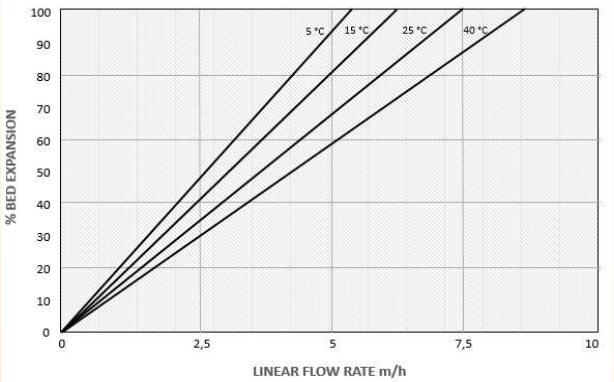
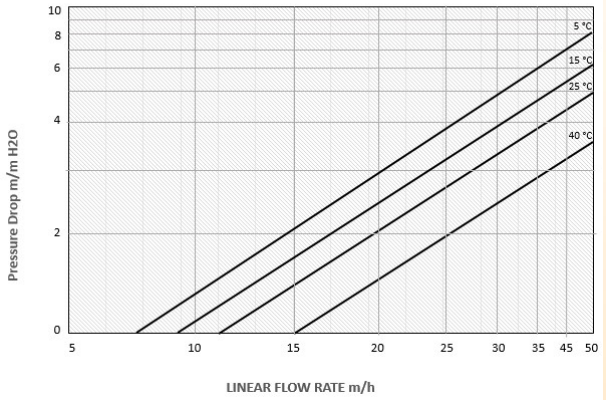


Figure 2: Pressure Drop
Temperature = 5 °C - 40 °C (41 ° F - 104 °F)



CUSTOMER NOTICE

STORAGE

It is recommended to store ion exchange resins at temperatures above the freezing point of water under roof in dry conditions whithout exposure to direct sunlight. If resin should become frozen, it should not be mechanically handled and left to thaw out gradually at ambient temperature. It must be completely thawed before handling or use. No attempt should be made to accelerate the thawing process.

DISPOSAL

In the European Community Ion exchange resins have to be disposed, according to the European waste nomenclature which can be accessed on the internet – site of the European Union.

TOXICITY

The safety data sheet must be observed. It contains additional data on product description, transport, storage, handling, safety and ecology.

WARNING

Oxidizing agents such as nitric acid attack organic ion exchange resins under certain conditions. This could lead to anything from slight resin degradation to a violent exothermic reaction (explosion). Before using strong oxidizing agents, consult sources knowledgeable in handling such materials.