PRODUCT INFORMATION

DYNASPHER PA2-F

POROUS STRONG ANION RESIN TYPE II

FOOD TREATMENT SOLUTION

DESCRIPTION

DYNASPHER PA2-F is a porous strong base type II quaternary ammonium anion exchange resin with styrene-DVB copolymer matrix. It has excellent physical and chemical properties, high operating capacity, lower pressure drop, well physical and chemical stability. The porous structure allows a better reversibility In front of organic fouling. DYNASPHER PA2-F is supplied in a properly calibrate screen grade so as to be applied in demineralization of fruit juice or natural extracts.

SYSTEM DESIGN

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

PRINCIPAL APPLICATIONS

- Liquid sugar
- Fruit juices
- Milk whey
- Pharmaceutical
- Nutraceutical
- Metallurgical
- Potable 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 ft³ Sack
- 25 lt Sack
- 5 ft³ Drum (Fiber)
- 1 m³ Supersack
- 42 ft³ Supersack

Consulting Firm RFP SRLS

Via Brofferio 1 - 20158 MILANO - ITALY
Phone +39 (02) 84573272

www.rfpconsulting.it
resin@rfpconsulting.it

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TYPICAL CHARAPTERISTICS

PHYSICAL CHARAPTERISTICS

Copolymer	Polystyrene Crosslinked with DVB
Matrix	Porous
Type	Strong anion type II
Functional Group	Dimethyethanolamine
Physical Form	White yellowish opaque spherical beads

CHEMICAL CHARAPTERISTICS

Ionic Form as Shipped	Cl^-
Total Exchange Capacity	≥ 1.2 eq/lt
Water Retention Capacity	49.0 - 55.0 %

PARTICLE SIZE

Particle size range	0.315 - 1.25 mm
Uniformity Coefficient	≤ 1.6
< 300 µm	≤ 1.0 %
> 1180 µm	≤ 3.0 %

STABILITY

Whole Uncracked Beads	≥ 98 %
Swelling	$Cl^- \longrightarrow OH^-$ -12% max

DENSITY

Particle Density	1.070-1.100 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	40 °C (104 °F) max OH^- - 60 °C (140 °F) max Cl^-
Chemical stability	0 - 14
Service Cycle	1 - 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 PA2-F as a function of backwash flowrate and temperature is show in figure 1.

Estimated pressure drop for DYNASPHER PA2-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)

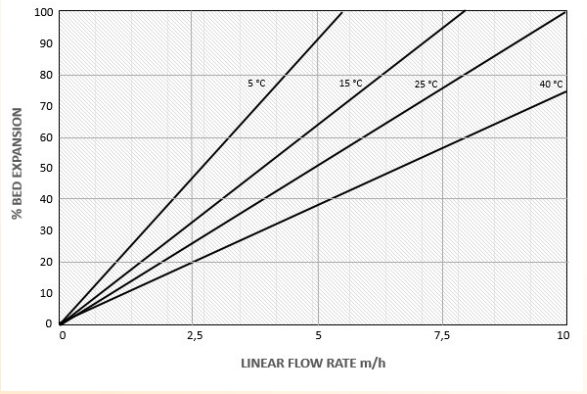
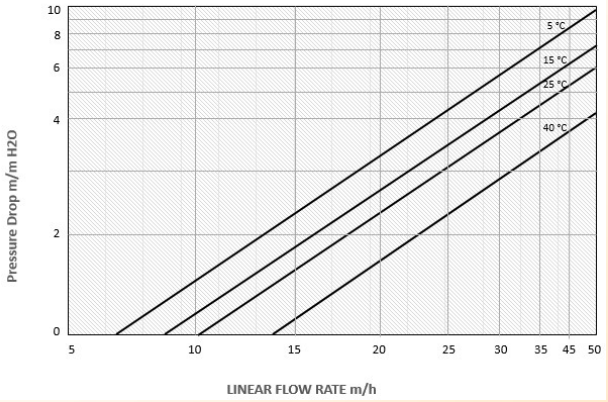


Figure 2: Pressure Drop
Temperature = 5 °C - 40 °C (41 ° F - 104 °F)



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.