

PRODUCT INFORMATION
DYNASPHER DC207
MODIFIED ADSORBENT RESIN

DESCRIPTION

FOOD TREATMENT SOLUTION

DYNASPHER DC207 is modified highly porous styrenic adsorbent based on polystyrene-divinylbenzene matrix bonded with bromine the aromatic rings.

It's show high hydrophobicity and greater selectivity for not-polar molecules.

Due to the high particle density DYNASPHER DC207 is also used in batch process.

SYSTEM DESIGN

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

PRINCIPAL APPLICATIONS

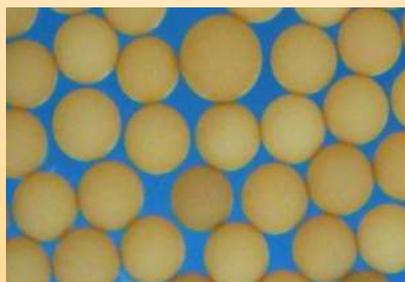
- Peptides, oligonucleotides, proteins
- Polyphenols, anthocyanins, Tannins, flavonoids
- Vitamins, antibiotics, enzyme
- Fruit juices decolorization
- Citrus juices de bittering
- Natural extracts
- Perfumes adsorbtion

REGULATORY

- Codes Alimentarius – Inventory of Processing Aids – CAC/MISC3
- European Resolution AP (97) – 1 regarding the TOC (Total Organic Carbon) released according AFNOR method (method T90 – 601)

TYPICAL PACKAGING

- 1 ft³ Sack
- 25 lt Sack
- 5 ft³ Drum (Fiber)
- 1 m³ Supersack
- 42 ft³ Supersack



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TYPICAL CHARACTERISTICS

PHYSICAL AND CHEMICAL PROPERTIES

Copolymer	Modified polystyrene / divinylbenzene brominate
Matrix	Highly porous
Type	Adsorbent
Physical form	Beige spherical beads
Whole beads count	98 min
Shipping density	790 – 800 g/lt
Particle density	1,18 mg/ml
Water retention	43.0 - 45.0 %
Particle diameter	0.250 – 0.825 mm
Uniformity Coefficient	≤ 1.5
Specific Surface Area	600 m ² /g
Pore Volume	1.0 ml/g
Pore Radius	110 Å

SWELLING RATIO IN VARIOUS SOLVENTS

Methanol	1.10
Ethanol	1.11
Acetone	1.13
Toluene	1.13
Acetonitrile	1.12
Water	1.00

REGENERANT

- Organic solvent
- Bases for acid compound
- Buffer solution for pH sensitive compound
- Hot steam for volatile compounds

SUGGESTED OPERATING CONDICTIONS

Temperature Range	5 - 130 °C (41 - 266 °F)
pH Range	0 - 14
pH Stability	0 - 14

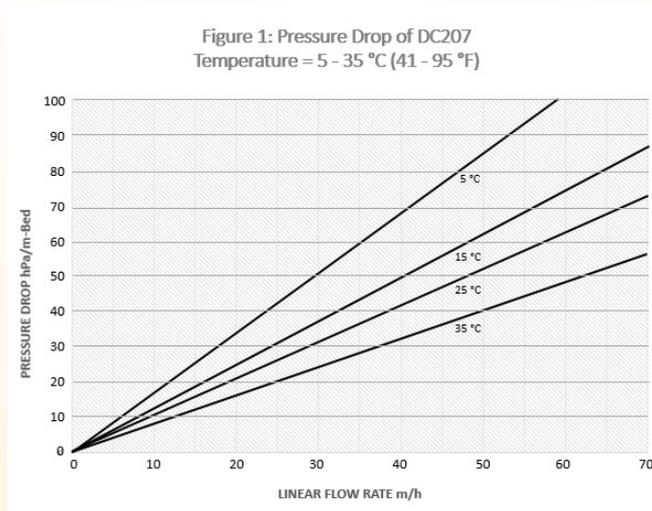
For additional size in formation, please refer to the our Technical Dept.

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

HYDRAULIC CHARACTERISTIC

Estimated pressure drop for DYNASHER DC207 as a function of service flowrate and temperature is shown in figure 2.

These pressure drop expectations are valid at the start of the service run with clean water and well – classified bed.



CUSTOMER NOTICE

STORAGE

It is recommended to store ion exchange resins at temperatures above the freezing point of water under roof in dry conditions without 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.