

PRODUCT INFORMATION
DYNASPHER MB20-WT
MIXED BED RESIN READY TO USE

WATER TREATMENT SOLUTION

DESCRIPTION

DYNASPHER MB20-WT is a mixed bed exchange ion resin ready to use and it is suitable for the production of demineralised water with very low conductivity. Mixed bed resin is directly used on potable water, after resin plant or osmosis system as refining. DYNASPHER MB20-WT is composed from 40% of cation resin in H+ 60% from anion resin in OH form with selected particle size in order to rich high quality of the treated water.

SYSTEM DESIGN

Co-current

PRINCIPAL APPLICATIONS

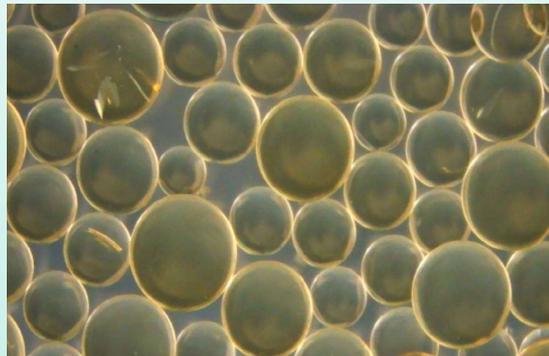
- Demineralized water production
- Demineralized water refining

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) released according AFNOR method (method T90 – 601)

TYPICAL PACKAGING

- 1 ft³ Bag
- 25 lt Bag
- 5 ft³ Drum (Fiber)
- 1 m³ Big-bag
- 42 ft³ Big-bag



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TYPICAL CHARACTERISTICS

PHYSICAL CHARACTERISTICS

Copolymer	Polystyrene DVB
Matrix	gel
Type	mixed bed ready to use
Functional Group	Sulphonic-Trimethylamine
Physical Form	Beige translucent spherical beads

CHEMICAL CHARACTERISTICS

Ionic Form as Shipped	H+/OH-
Total Exchange Capacity	≥ 0,75 eq/lit
Activation	H+ min. 98% - OH- min 90%

PARTICLE SIZE

Particle Diameter	0,2 - 1.25 mm
Uniformity Coefficient	1,5
< 200 µm	≤ 0.1 %
> 1180 µm	≤ 1.0 %

STABILITY

Whole Uncracked Beads	≥ 98 %
Swelling	H+/OH- → Exhausted + 20%

DENSITY

Shipping Weight	730 - 750 g/lit
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For additional size in formation, please refer to the our Technical Dept.

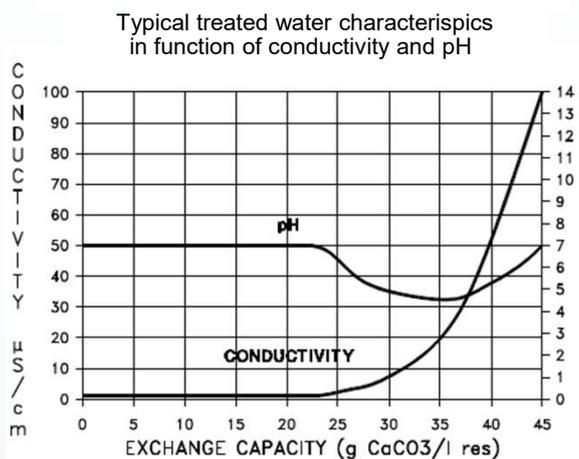
SUGGESTED OPERATING CONDICTIONS

Max operating temperature	50° C (122° F)
Minimum bed depth	600 mm
Linear operating flow rate	5 – 50 m/h

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

WARNING

The DYNASPHER MB20-WT resin must be stored in the original hermetically sealed packaging to avoid carbonation of the anionic resin component and the consequent loss of capacity. Long-term contact with air causes degradation of the resin. It is necessary to handle this resin with caution, avoiding leaving the packages open so as not to expose the resins to the air. Storage time should not exceed 8 months.



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.