

WATER TREATMENT SOLUTION

DESCRIPTION

DYNASPHER AS714-WT is high arsenic selectivity resin specially developed for **potable water** and other solutions. By regenerated use, it could serve a very long-life cycle. AS714-WT contains iron oxide in formulation to be preferred selective to arsenic. It is featured by its outstanding operation capacity and long service life. Due to its chemical feature, it is ideal for using in neutral and alkali applications. This resin was regenerated with Acid, so it was not suggested to use this resin in acidic conditions. AS714-WT is supplied in bead form and suitable for using in small cartridges and big industrial resin columns. For normal usage, it is similar to other conventional ion exchange resins.

SYSTEM DESIGN

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

PRINCIPAL APPLICATIONS

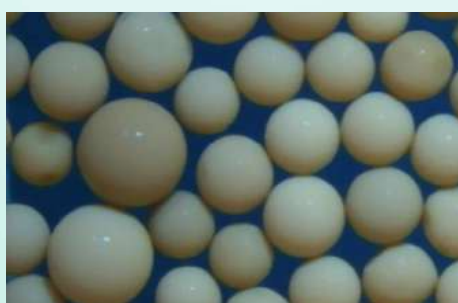
- Potable water
- Waste water
- Sugar solutions
- Pharmaceutical industry
- Metallurgical industry
- Waste recycling industry
- Boric acid recovery

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

- 5 ft³ Drum (Fiber)



PRODUCT INFORMATION
DYNASPHER AS714-WT
IRON LOADED FOR ARSENIC REMOVAL

TYPICAL CHARACTERISTICS

PHYSICAL CHARACTERISTICS

Copolymer	Cross-linked polystyrene
Matrix	Macroporous
Type	Iron loaded for highly arsenic removal
Functional Group	-
Physical Form	Brownish spherical beads

CHEMICAL CHARACTERISTICS

Ionic Form as Shipped	Neutral
Total Exchange Capacity	≥ 1.5 eq/l
Water Retention	50.0-60.0 %

PARTICLE SIZE

Particle Diameter	0,315-1.25 mm
Uniformity Coefficient	1.5
< 300 μm	≤ 0.1 %
> 1180 μm	≤ 1.0 %

STABILITY

Whole Uncracked Beads	≥ 98 %
Stability – pH limits	2 – 10

DENSITY

Particle Density	1180-1280 g / ml
Shipping Weight	780-850 g / lt approx.

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

SUGGESTED OPERATING CONDICTIONS

Minimum bed depth	800 mm
Linear operating flow rate	3 – 30 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 tecnical dept.

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.